Ninyo & Moore
Geotechnical and Environmental Sciences Consultants

GEOTECHNICAL EVALUATION AND ENVIRONMENTAL SOIL ASSESSMENT LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA

PREPARED FOR:
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May 27, 2015
Project No. 106435019

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Mr. Ralph Johnson
Facilities Planning/EHS
Palomar College
1140 West Mission Road, Suite A-4A
San Marcos, California 92069

Subject: Geotechnical Evaluation and Environmental Soil Assessment
Las Posas Project
Palomar College
San Marcos, California

Dear Mr. Johnson:

In accordance with your request and authorization, we have performed a geotechnical evaluation and soil environmental assessment for the Las Posas project at the existing Palomar College campus in San Marcos, California. The purpose of this report is to provide information to the design-build contractor regarding the proposed project.

We appreciate the opportunity to be of service on this project.

Sincerely,
NINYO & MOORE

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1. INTRODUCTION

In accordance with your request and authorization, we have performed a geotechnical evaluation and soil environmental for the Las Posas project at the Palomar College campus in San Marcos, California (Figure 1). This report presents our geotechnical findings, conclusions, and recommendations regarding the proposed project. Our geotechnical evaluation was performed in accordance with Chapter 18A of Title 24, Part 2, Volume 2 of the 2013 California Building Code (CBC) and California Geological Survey (CGS) Note 48. The purpose of this report is to provide information to the design-build contractor regarding the proposed project.

2. SCOPE OF SERVICES

The scope of services for this study included the following:

- Reviewing the previous geotechnical evaluation reports for the campus and readily available published and in-house geotechnical literature, geologic maps, fault maps, and stereoscopic aerial photographs.
- Coordinating with Palomar College personnel to secure access to the site for our subsurface exploration.
- Performing a field reconnaissance to observe site conditions and to mark out the locations of our exploratory borings.
- Notifying Underground Service Alert (USA) for utility clearance prior to the performance of our subsurface exploration.
- Obtaining a boring permit from the County of San Diego Department of Environmental Health (DEH).
- Performance of a subsurface exploration program consisting of drilling, logging, and sampling six exploratory borings using a truck-mounted drill rig equipped with hollow-stem augers. Bulk and relatively undisturbed drive samples of the materials encountered were collected at selected intervals from the borings and transported to our in-house geotechnical laboratory for testing.
- Installing monitoring wells in two of the exploratory borings in order to evaluate the stabilized groundwater depth.
- Performing geotechnical laboratory testing on representative soil samples to evaluate soil parameters for design purposes.

- Performing an environmental assessment soils to evaluate the presence of environmentally impacted soil at the site.
- Performing two seismic refraction traverses in order to evaluate rippability.
- Compiling and performing engineering of the data obtained from our background review, field activities, and geotechnical laboratory testing.
- Preparing this report presenting our findings, conclusions, and geotechnical recommendations for the design and construction of the proposed project.

3. SITE AND PROJECT DESCRIPTION

The subject site is situated within the existing Palomar College campus which was founded in 1946 (Figure 1). Several of the existing buildings within the college campus were constructed during the 1970s. The project will be constructed on an undeveloped lot in the southwest portion of the campus. The lot is bounded to the north by residential properties and a student parking lot, to the east by Comet Circle and the college campus, to the south by West Mission Road, and to the west by North Las Posas Road (Figure 2). The project site is currently being used as an overflow parking lot for the college. The ground surface of the parking lot consists of a sand and gravel surface, and railroad ties delineate the parking stalls. The site coordinates are approximately 33.1492°N latitude and -117.1875°W longitude. Elevations across the project site range from approximately 575 feet at the southeastern portion of the project area, to 585 feet above mean sea level (MSL) at the northwestern portion of the project area.

As a part of our evaluation, we have reviewed a conceptual site plan for the proposed improvements at the subject site. The project will consist of the construction of a new Maintenance and Operations facility for the college on the north side of the overflow parking lot. The Maintenance and Operations facility will include warehouse and maintenance buildings and a storage and mechanic shop for campus grounds keepers. We understand that portions of the proposed facility may include subterranean levels.

4. FIELD EXPLORATION AND LABORATORY TESTING

Our field exploration for this study included a subsurface exploration, environmental sampling, and a geophysical evaluation.

4.1. Subsurface Exploration

Our subsurface exploration was conducted April 17, 2015, and consisted of drilling, logging, and sampling six small-diameter exploratory borings (B1 through B-6). The borings were drilled to depths of up to approximately 13 feet using a truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers. Monitoring wells were constructed in two of the borings (MW-1 and MW-2) for the purpose of monitoring groundwater levels. During the drilling and excavation operations, the borings were logged and sampled by Ninyo & Moore personnel. Representative in-place and bulk soil samples were obtained from within the borings. The samples were then transported to our in-house geotechnical laboratory for testing. The approximate locations of the exploratory borings are shown on Figure 2. Logs of the borings are included in Appendix A.

4.2. Laboratory Testing

Geotechnical laboratory testing was performed on representative soil samples collected during our subsurface exploration. Testing included an evaluation of in-situ dry density and moisture content, gradation (sieve) analysis, and soil corrosivity (including sulfate and chloride content, pH, and resistivity). The results of the in-situ dry density and moisture content tests are presented on the boring logs in Appendix A. The results of the other geotechnical laboratory tests are presented in Appendix B.

Environmental consulting services consisting of the sampling and analytical testing of soil samples collected from our exploratory borings were also performed in order to evaluate the presence of environmentally impacted soil associated with past agricultural use at the site. A letter documenting field activities, tabulated analytical data, analytical reports, figures, tables, conclusions, and recommendations is presented in Appendix C. Previously performed environmental Phase I and Phase II studies for the site are included in Appendix D (Ninyo & Moore, 2011b and 2011c).

4.3. Geophysical Evaluation

Two P-wave seismic refraction surveys were performed across the proposed location of the Maintenance and Operations facility. The survey was performed using a 24-channel, Geometrics Geode seismograph. The results of our seismic refraction traverses are presented in Appendix D.

5. GEOLOGY AND SUBSURFACE CONDITIONS

Our findings regarding regional and local geology, including faulting and seismicity, landslides, excavatability, and groundwater conditions at the subject site are provided in the following sections.

5.1. Regional Geologic Setting

The project area is situated in the coastal foothill section of the Peninsular Ranges Geomorphic Province. This geomorphic province encompasses an area that extends approximately 900 miles from the Transverse Ranges and the Los Angeles Basin south to the southern tip of Baja California (Norris and Webb, 1990; Harden, 1998). The province varies in width from approximately 30 to 100 miles. In general, the province consists of rugged mountains underlain by Jurassic metavolcanic and metasedimentary rocks, and Cretaceous igneous rocks of the southern California batholith.

The Peninsular Ranges Province is traversed by a group of sub-parallel faults and fault zones trending roughly northwest. Several of these faults, which are shown on Figure 3, are considered active faults. The Elsinore, San Jacinto and San Andreas faults are active fault systems located northeast of the project area and the Rose Canyon, Coronado Bank, San Diego Trough, and San Clemente faults are active faults located west of the project area. The Rose Canyon Fault Zone has been mapped approximately 12 miles west of the project site. Major tectonic activity associated with these and other faults within this regional tectonic framework consists primarily of right-lateral, strike-slip movement. Further discussion of faulting relative to the site is provided in the Faulting and Seismicity section of this report.

5.2. Site Geology

The geologic units encountered during our subsurface exploration included fill and granitic rock. Generalized descriptions of the earth units encountered during our field reconnaissance and subsurface exploration are provided in the subsequent sections. Additional descriptions of the subsurface units are provided on the boring logs in Appendix A. The general geology of the site is shown on Figure 3 and geologic cross sections of the site are depicted on Figure 4.

5.2.1. Fill

General fill soils were encountered in each of our borings at the ground surface and extending to depths up to approximately 6 feet. As encountered, the fill soils generally consisted of various shades of gray and brown, moist, loose to medium dense, silty gravel with sand and various shades of brown, medium dense to dense, silty sand with scattered gravel.

5.2.2. Granitic Rock

Granitic rock was encountered in our borings beneath the fill to the total depths explored. As encountered, the granitic rock consisted of yellowish to grayish brown, moist, weathered, fine- to medium-grained granitic rock. Drilling refusal was encountered in the granitic rock materials.

5.3. Rippability

Based on our subsurface exploration of the site, excavations for the proposed improvements are anticipated to be in fill and granitic rock. Granitic rock was encountered beneath the fill to the total depths explored. The on-site fill material is expected to be generally excavatable with heavy-duty earthmoving equipment in good working condition. However, based on our observations (boulders and corestones on nearby slopes), our exploratory borings (refusal to excavations), and the results of our seismic refraction survey presented in Appendix E, excavation in granitic rock is anticipated to require the use of heavier equipment or more innovative excavation techniques. Such techniques may include air hammer attachments to excavators, single shank rippers attached to heavy-duty earthwork equipment and blasting.

The extent of the heavy ripping, rock breaking, or blasting will depend on the excavation depths, locations, and desired rate of production.

5.4. Groundwater

Groundwater was not encountered in our exploratory borings. Monitoring wells were constructed in two of the borings (MW-1 and MW-2) for the purpose of monitoring stabilized groundwater levels at the site. Groundwater levels were checked on May 22, 2015 and encountered groundwater at depths of approximately 10.6 and 6.5 feet in MW-1 and MW-2, respectively. Seepage or perched water may be encountered overlying the granitic bedrock, or within fractures in the granitic rock. Fluctuations in the groundwater level and local perched conditions may occur due to variations in ground surface topography, subsurface geologic conditions and structure, rainfall, irrigation, and other factors.

5.5. Flood Hazards

Based on a review of Federal Emergency Management Agency (FEMA) flood insurance rate maps (FEMA, 2012), the site is mapped as lying outside of mapped 100- and 500-year flood zones. Based on this review, the potential for significant flooding of the site is considered low.

5.6. Faulting and Seismicity

Based on our review of the referenced geologic maps and stereoscopic aerial photographs, as well as on our geologic field mapping, the subject site is not underlain by known active or potentially active faults (i.e., faults that exhibit evidence of ground displacement in the last 11,000 years and 2,000,000 years, respectively). The subject site is not located within a State of California Earthquake Fault Zone (EFZ) (formerly known as an Alquist-Priolo Special Studies Zone) (Hart and Bryant, 1997). However, like the majority of Southern California, the site is located in a seismically active area and the potential for strong ground motion is considered significant during the design life of the proposed structure. Figure 5 shows the approximate site location relative to the major faults in the region. The nearest known active fault is the Rose Canyon fault, located approximately 12 miles west of the site. Table 1 lists

selected principal known active faults that may affect the subject site, the maximum moment magnitude M_{max}, and the fault types as published for the CGS by Cao et al. (2003). The approximate fault to site distance was calculated from the USGS National Seismic Hazard Maps - Fault Parameters website (USGS, 2008).

Table 1 – Principal Active Faults

Fault	Approximate Fault-to-Site Distance miles (kilometers)[1]	Maximum Moment Magnitude (Mw)[2]
Rose Canyon	12 (19)	7.2
Newport-Inglewood (Offshore)	14 (23)	7.1
Elsinore (Julian Segment)	17 (27)	7.1
Elsinore (Temecula Segment)	17 (27)	6.8
Coronado Bank	27 (44)	7.6
Elsinore (Glen Ivy Segment)	33 (54)	6.8
Earthquake Valley	35 (56)	6.5
San Joaquin Hills	42 (67)	6.6
San Jacinto (Anza Segment)	42 (68)	7.2
Palos Verdes	43 (70)	7.3
San Jacinto (Coyote Creek Segment)	43 (70)	6.8
San Jacinto (San Jacinto Valley Segment)	45 (72)	6.9
Elsinore (Coyote Mountain Segment)	51 (82)	6.8
Chino Central Avenue (Elsinore Segment)	51 (83)	6.7
Whittier	52 (84)	6.8
San Andreas	59 (95)	7.5
San Jacinto (San Bernardino Segment)	60 (96)	6.7

Notes:
[1] USGS (2008)
[2] Cao, et al. (2003)

In general, hazards associated with seismic activity include strong ground motion, ground surface rupture, liquefaction, seismically induced settlement, and tsunamis. These hazards are discussed in the following sections.

5.6.1. Strong Ground Motion

Based on our review of background information, data pertaining to the historical seismicity of the project area are summarized in Table 2 below. This table presents historic earthquakes within a radius of approximately 62 miles (100 kilometers) of the site with a magnitude of 6.0 or greater.

Table 2 – Historical Earthquakes that Affected the Site

Date	Magnitude (M)	Approximate Epicentral Distance miles (kilometers)
April 21, 1918	6.7	37 (60)
March 19, 1954	6.2	42 (68)
April 9, 1968	6.6	58 (93)

The 2013 California Building Code (CBC) specifies that the Risk-Targeted, Maximum Considered Earthquake (MCE_R) ground motion response accelerations be used to evaluate seismic loads for design of buildings and other structures. The MCE_R ground motion response accelerations are based on the spectral response accelerations for 5 percent damping in the direction of maximum horizontal response and incorporate a target risk for structural collapse equivalent to 1 percent in 50 years with deterministic limits for near source effects. The horizontal peak ground acceleration (PGA) that corresponds to the MCE_R for the site was calculated at 0.41g using the United States Geological Survey (USGS, 2013) seismic design tool (web-based). Spectral response acceleration parameters, consistent with the 2013 CBC, are also provided in Section 7.2 for the evaluation of seismic loads on buildings and other structures.

The 2013 CBC specifies that the potential for liquefaction and soil strength loss be evaluated, where applicable, for the Maximum Considered Earthquake Geometric Mean (MCE_G) peak ground acceleration with adjustment for site class effects in accordance with the American Society of Civil Engineers (ASCE) 7-10 Standard. The MCE_G peak ground acceleration is based on the geometric mean peak ground acceleration with a 2 percent probability of exceedance in 50 years. The MCE_G peak ground acceleration with adjustment for site class effects (PGA_M) was calculated as 0.38g using the USGS (USGS, 2013) seismic design tool that yielded a mapped MCE_G peak ground acceleration of 0.41g for the site and a site coefficient (F_{PGA}) of 1.0 for Site Class C.

5.6.2. Ground Surface Rupture

Based on our review of the referenced literature and our site reconnaissance, no active faults are known to cross the project vicinity. Therefore, the potential for ground rupture due to faulting at the site is considered low. However, lurching or cracking of the ground surface as a result of nearby seismic events is possible.

5.6.3. Liquefaction and Seismically Induced Settlement

Liquefaction of cohesionless soils can be caused by strong vibratory motion due to earthquakes. Research and historical data indicate that loose granular soils and non-plastic silts that are saturated by a relatively shallow groundwater table are susceptible to liquefaction. Based on the relatively dense nature of the underlying granitic materials it is our opinion that liquefaction and seismically induced settlement at the subject site are not design considerations.

5.6.4. Tsunamis

Tsunamis are long wavelength seismic sea waves (long compared to the ocean depth) generated by sudden movements of the ocean bottom during submarine earthquakes, landslides, or volcanic activity. Seiches are similar oscillating waves on inland or enclosed bodies of water. Based on the location and elevation of the site, the potential for a tsunami or seiche to affect the site is not a design consideration. According to the California Emergency Management Agency's Tsunami Inundation Map (2009), the campus is not in a mapped tsunami inundation area.

5.7. Landsliding

Based on our review of referenced geologic map, literature, topographic maps, and stereoscopic aerial photographs, no landslides or indications of deep-seated landsliding were noted underlying the project site. As such, the potential for significant large-scale slope instability at the site is not a design consideration.

6. CONCLUSIONS

Based on our review of the referenced background data, subsurface exploration, and laboratory testing, it is our opinion that construction of the proposed Las Posas project is feasible from a geotechnical standpoint provided the recommendations presented in this report are incorporated into the design and construction of the project. In general, the following conclusions were made:

- The project site is underlain by general fill soils and granitic rock. In general, the fill soils consisted of loose to medium dense, silty gravel with sand and medium dense to dense, silty sand with scattered gravel. The fill material is not considered suitable for structural support in its current condition. The granitic rock encountered is considered suitable for support of foundations and structural fill. Remedial grading recommendations for the treatment of the existing fill are presented in the following recommendations.

- Based on our review of published geologic maps and our field evaluation, the project site is not underlain by faults or landslides. The nearest known active fault is the Rose Canyon fault, located approximately 12 miles west of the site.

- The site is not located within a State of California Fault (Alquist-Priolo Special Studies) Zone.

- On-site materials including fill and granitic rock may be suitable for reuse as compacted fill, if the recommendations of this report are implemented. Excavations in existing fill materials should be feasible with heavy earthmoving equipment in good working condition. Where excavations are planned to extend into granitic rock, difficult ripping, rock breaking, and/or blasting should be anticipated. This is particularly the case for subterranean levels.

- Excavation in granitic rock will produce oversize material which will require special handling.

- Groundwater was measures in our monitoring wells at the site at depths as shallow as 6.5 feet. Fluctuations in the groundwater level may occur due to variations in ground surface topography, subsurface geologic conditions and structure, rainfall, irrigation, and other factors.

- Due to the relatively dense nature of the underlying granitic materials, the project site is not considered susceptible to liquefaction.

- No active faults are reported underlying the subject site.

- Based on the results of our soil corrosivity testing and Caltrans corrosion guidelines (2012), the site would not be classified as a corrosive site.

7. RECOMMENDATIONS

The following sections present our geotechnical recommendations for the design and construction of the proposed project. We recommend that the site earthwork and construction be performed in accordance with the following recommendations and in accordance with the applicable governing agencies.

7.1. Earthwork

Earthwork at the site is anticipated to consist of conventional cut and fill grading to prepare the site for the proposed Maintenance and Operations facility. Earthwork should be performed in accordance with the requirements of applicable governing agencies and the recommendations presented in the following sections.

7.1.1. Site Preparation

Site preparation should begin with the removal of deleterious debris from areas to be graded. Clearing and grubbing should extend to the outside of the proposed excavation and fill areas. The debris and unsuitable material generated during clearing and grubbing should be removed from areas to be graded and disposed of at a legal dumpsite away from the project area.

7.1.2. Excavation Characteristics

Based on our subsurface exploration of the site, the fill is expected to be excavatable with heavy-duty earthmoving equipment in good condition. However, a significant portion of the site is underlain by weathered granitic rock. Core stones and boulders were observed in a nearby slope. Based on the results of the seismic refraction survey and the subsurface exploration, depths of rippable material will vary across the site. As shown from the seismic survey lines included in the geophysical report (Appendix E), heavy ripping or rock breaking, or blasting of granitic rock may be necessary depending on the excavation depth, location, and desired rate of production. Resistant rock masses or core stones should be anticipated at various depths. Rippability of a mass will also be dependent on the excavation equipment used and the skill and experience of the equipment operator.

For trenching operations and deeper excavations, the rippability estimates should be scaled downward. The presence of boulders and/or core stones can be problematic in a narrow trench and should be anticipated. In order to facilitate trenching for utilities, consideration should be given to overexcavating portions of the site to aid in the installation and construction of proposed improvements. In general, overexcavation in hard rock should extend to depths of 5 feet below building pad subgrades and 1 foot below anticipated depth of utilities, whichever is deeper. The resulting excavations should be backfilled with compacted fill soils. In areas where no buildings or utilities are planned, this overexcavation will not be necessary.

7.1.3. Temporary Excavations

We recommend that trenches and excavations be designed and constructed in accordance with Occupational Safety and Health Administration (OSHA) regulations. These regulations provide trench sloping and shoring design parameters for trenches up to 20 feet deep based on the soil types encountered. Trenches over 20 feet deep should be designed by the Contractor's engineer based on site-specific geotechnical analyses. For planning purposes, we recommended that the following OSHA soil classifications be used:

Fill Materials	*Type C*
Granitic Rock Materials	*Type B*

Upon making the excavations, the soil classifications and excavation performance should be checked in the field by the contractor in accordance with the OSHA regulations. Temporary excavations should be constructed in accordance with OSHA recommendations. For trench or other excavations, OSHA requirements regarding personnel safety should be met using appropriate shoring (including trench boxes) or by laying back the slopes to no steeper than 1.5:1 (horizontal to vertical) in fill and 1:1 in granitic bedrock materials. Temporary excavations that encounter seepage may be shored or stabilized by placing sandbags or gravel along the base of the seepage zone. Excavations encountering seepage should be evaluated on a case-by-case basis. On-site safety of personnel is the responsibility of the contractor.

7.1.4. Pipe Bedding and Modulus of Soil Reaction (*E'*)

It is our recommendation that new pipes, where constructed in open excavations, be supported on 6 or more inches of granular bedding material. Granular pipe bedding should be provided to distribute vertical loads around the pipe. Bedding material and compaction requirements should be in accordance with this report. Pipe bedding typically consists of graded aggregate with a coefficient of uniformity of three (3) or more. The pipe bedding should conform to the specifications presented for pipe zone backfill materials.

Pipe bedding and pipe zone backfill should have a Sand Equivalent of 30 or more, and be placed around the sides and the crown of the pipe. In addition, the pipe zone backfill should extend 1 foot or more above the crown of the pipe. If open-graded gravel is used as pipe zone backfill, we recommend that the pipe bedding and pipe zone materials be wrapped in a non-woven geotextile fabric.

The modulus of soil reaction (*E'*) is used to characterize the stiffness of soil backfill placed at the sides of buried flexible pipes for the purpose of evaluating deflection caused by the weight of the backfill over the pipe (Hartley and Duncan, 1987). A soil reaction modulus of 1,800 pounds per square inch (psi) may be used for design provided that granular bedding material is placed adjacent to the pipe, as recommended in this report.

7.1.5. Remedial Grading

From a geotechnical standpoint, we recommend that the existing fill be removed down to competent granitic rock within areas to receive engineered fill or backfill. Loose, unconsolidated materials should be removed prior to placing fill to evaluate the need for deeper removals. Deeper removals may be needed in loose, compressible or other unsuitable materials are exposed during grading. The depth and extent of the removal should be observed in the field by the project geotechnical consultant.

Following removals, the resulting subsurface should be observed by our offices to evaluate the suitability of the exposed materials. It is the contractor's responsibility to notify Ninyo & Moore and the appropriate governing agency when project areas are ready for observation, and to provide reasonable time for that review. The remedial excavation should then be filled with engineered soils. The existing soils may be reused as engineered fill soil, provided they meet with the criteria presented in the following sections.

7.1.6. Building Preparation – Cut Pads

As noted, the building pad is defined as the area underlying the building and its attached overhangs plus a horizontal distance of 5 feet beyond the lateral limits of the structure. To ease the performance of foundation excavations and the installation of underground utilities within the building pad, the cut pads may be overexcavated. During mass grading for the cut pads, considerations should be given to overexcavating the building pad to a depth of 5 feet below finished subgrade elevation or 1 foot below deepest utility, whichever is deeper. The resulting excavation should be backfilled with compacted fill materials that possess an expansion index of less than 50 as evaluated by ASTM 4829l These engineered fill soils should contain materials that are 6 inches or smaller in diameter and less than 30 percent of the compacted fill should be ¾ inches in diameter or less by weight.

7.1.7. Treatment of Cut/Fill Transitions Beneath Buildings

Based on our review of a partial grading plan for the site and plans for proposed subterranean levels at the site, some of the proposed new structures may be underlain by a cut/fill transition. In order to mitigate the potential for differential settlement, we recommend that where a cut/fill transition line extends beneath a proposed building location, the cut portion of the pad should be undercut. The undercut should be performed to a depth of 5 feet below the proposed finish grade or to a depth of one-third or more of the deepest fill depth (including remedial grading depths) beneath the structure, whichever is greater. The resulting undercut should be filled with compacted fill soil. The undercut should be extended outward a distance of 5 feet beyond the lateral limits of the structure.

7.1.8. Fill Materials

On-site soils with an organic content of generally less than 3 percent by volume (or 1 percent by weight) may be suitable for reuse as compacted fill provided the materials meets the following recommendations based on intended usage and placement location. Fill material should generally not contain rocks or lumps over 6 inches in largest dimension, and not more than 30 percent larger than ¾ inch. However, onsite excavations are anticipated to generate oversized materials.

Imported fill material, if needed, should generally be granular soils with a low expansion potential (i.e., an expansion index of 50 or less as evaluated by ASTM D 4829). Import material should be non-corrosive in accordance with the Caltrans (2012) corrosion guidelines and ACI 318. Non-corrosive soils have a chloride concentration less than 500 parts per million, a soluble sulfate content less than 0.10 percent (1,000 ppm), a pH value of 5.5 or higher, and an electrical resistivity more than 1,000 ohm-cm. Additionally, imported fill materials should meet the Department of Toxic Substances Control (DTSC) guidelines. On-site and import materials for use as fill should be evaluated by the project geotechnical consultant's representative prior to filling or importing. The contractor should be responsible for the uniformity of import material brought to the site.

7.1.9. Fill Placement and Compaction

Prior to placement of compacted fill the contractor should request an evaluation of the exposed ground surface by the project geotechnical consultant. Unless otherwise recommended, the exposed ground surface should then be scarified to a depth of approximately 8 inches and watered or dried, as needed, to achieve moisture contents generally above the optimum moisture content. The scarified materials should then be compacted as recommended. The evaluation of compaction by Ninyo & Moore should not be considered to preclude any requirements for observation or approval by governing agencies.

Fill materials should be moisture conditioned to generally above the laboratory optimum moisture content prior to placement. The optimum moisture content will vary with material type and other factors. Moisture conditioning of fill soils should be generally consistent within the soil mass.

Prior to placement of additional compacted fill materials following a delay in the grading operations, the exposed surface of previously compacted fill should be prepared to receive fill. Preparation may include scarification, moisture conditioning, and recompaction.

Compacted fill should be placed in horizontal lifts of approximately 8 inches in loose thickness. Prior to compaction, each lift should be watered or dried as needed to achieve a moisture content generally above the laboratory optimum, mixed, and then compacted by mechanical methods. Fills placed at depths less than 20 feet should be placed at a 90 percent relative compaction in accordance with ASTM D 1557. Fills placed at depths of 20 feet or more should be placed at a 95 percent relative compaction in accordance with ASTM D 1557. Aggregate base materials and the upper 12 inches of pavement subgrade should be compacted to 95 percent relative compaction in accordance with ASTM D 1557. Special care should be exercised to avoid damaging utilities during compaction of the backfill. Successive lifts should be treated in a like manner until the desired finished grades are achieved.

7.1.10. Utility Trench Backfill

Based on our subsurface exploration, the on-site earth materials may be suitable for reuse as trench zone backfill provided they are free of organic material, clay lumps, debris, and rocks greater than approximately 3 inches in diameter. However, materials derived from excavations in the granitic rock are anticipated to generate oversized materials. Additional screening or crushing of these materials should be anticipated prior to reuse as trench backfill. Trench backfill should be moisture-conditioned to generally above the laboratory optimum, then placed and compacted to 90 percent of the specified relative compaction, as evaluated by ASTM D 1557. Aggregate base materials and the

upper 12 inches of trench backfill beneath pavements should be compacted to 95 percent relative compaction, as evaluated by ASTM D 1557. Lift thickness for backfill will depend on the type of compaction equipment utilized, but fill should generally be placed in lifts not exceeding 8 inches in loose thickness. Special care should be exercised to avoid damaging the pipe during compaction of the backfill.

7.2. Seismic Design Parameters

Design of the proposed improvements should be performed in accordance with the requirements of governing jurisdictions and applicable building codes. Table 3 presents the seismic design parameters for the site in accordance with CBC (2013) guidelines and adjusted MCE_R spectral response acceleration parameters (USGS, 2013).

Table 3 – Seismic Design Factors

Factors	Values
Site Class	C
Site Coefficient, F_a	1.000
Site Coefficient, F_v	1.402
Mapped Short Period Spectral Acceleration, S_S	1.017g
Mapped One-Second Period Spectral Acceleration, S_1	0.398g
Short Period Spectral Acceleration Adjusted For Site Class, S_{MS}	1.017g
One-Second Period Spectral Acceleration Adjusted For Site Class, S_{M1}	0.558g
Design Short Period Spectral Acceleration, S_{DS}	0.678g
Design One-Second Period Spectral Acceleration, S_{D1}	0.372g

7.3. Foundations

Based on our understanding of the project, the proposed buildings will be one or two-story structures and that a subterranean level may be constructed beneath portions of the building. We are providing the following foundation recommendations for buildings at fill pad and cut pad locations.

7.3.1. Shallow Footings for Buildings and Retaining Walls

Shallow, spread or continuous footings that bear on granitic rock, may be designed using an allowable bearing capacity of 4,000 pounds per square foot (psf). These allowable bearing capacities may be increased by one-third when considering loads of short duration such as wind or seismic forces. Spread or continuous footings should be founded 18 inches below the lowest adjacent grade. Continuous footings should have a width of 18 inches or more and isolated spread footings should be 24 inches or more in width.

If required by the topography of the site and due to existing fill thickness on the eastern portion of the site, portions of the foundations may need to be deepened to bear on granitic rock. For this alternative, footings may bear on a controlled low strength material (CLSM) backfill with a compressive strength of 150 pounds per square inch (psi) according to "Greenbook," Section 201-6 specifications. CLSM backfill should extend down to competent granitic rock.

From a geotechnical standpoint, continuous footings should be reinforced with four No. 4 steel reinforcing bars, two placed near the top and two placed near the bottom of the footings. Foundations should also be reinforced in accordance with the recommendations of the project structural engineer.

7.3.2. Lateral Resistance

Lateral bearing pressures equal to an equivalent fluid weight of 350 pounds per cubic foot may be used provided the footings are placed neat against compacted fill. Footings may also be designed using a coefficient of friction between soil and concrete of 0.4. The lateral resistance can be taken as the sum of the frictional resistance and passive resistance provided the passive resistance does not exceed one-half of the total resistance.

7.3.3. Static Settlement

We estimate that the proposed structures, designed and constructed as recommended herein, will undergo total settlement of less than approximately of ¾ inch and differential settlement on the order of ½ inch over a horizontal distance of 40 feet.

7.4. Retaining Walls

Although specifics are not known at this time, we understand that retaining walls may be constructed as part of the project. Types of retaining walls are anticipated to include cast-in-place concrete, and concrete masonry unit (CMU).

7.4.1. Standard Retaining Wall

Cast-in-place concrete or CMU retaining walls may be supported on a continuous footings bearing in compacted fill or granitic rock. However, retaining wall foundations should not span a cut/fill transition. Cut/fill transitions should be remedial graded in accordance with recommendations presented in previous sections of this report. An allowable bearing capacity of 4,000 psf may be used for the design of retaining wall foundations bearing on granitic rock. A value of 3,000 psf may be used for retaining walls bearing on compacted fill. The allowable bearing capacity should be increased by one-third when considering loads of short duration, such as wind or seismic forces.

For the design of a yielding retaining wall that is not restrained against movement by rigid corners or structural connections, lateral pressures are presented on Figure 6. Restrained walls (non-yielding) may be designed for lateral pressures presented on Figure 7. These pressures assume low-expansive backfill and free draining conditions. A drain should be provided behind the retaining wall as shown on Figure 8. The drain should be connected to an appropriate outlet.

7.4.2. Standard Retaining Wall Backfill

Backfill for standard cast-in-place concrete or CMU retaining walls should consist of generally granular, select fill soil, with an expansion index less than 20 and a plasticity index (PI) of 12 or less. Additionally, the select wall backfill materials should possess a friction angle of 30 degrees or more. Wall backfill materials should generally not contain rocks or lumps over 3 inches in largest dimension, and not more than 30 percent larger than ¾ inch. Larger chunks, if generated during excavation, may be broken into acceptably sized pieces or disposed of off-site. Wall backfill soils may be generated

from on-site materials provided they are processed, screened, or crushed to meet the recommendations provided above.

7.5. Slabs-on-Grade

We recommend that conventional, slab-on-grade floors, underlain by compacted fill materials of generally very low to low expansion potential, be 5 inches in thickness and be reinforced with No. 3 reinforcing bars spaced 18 inches on center each way. The reinforcing bars should be placed near the middle of the slab. As a means to help reduce shrinkage cracks, we recommend that the slabs be provided with crack-control joints at intervals of approximately 12 feet each way. The slab reinforcement and expansion joint spacing should be designed by the project structural engineer.

If moisture sensitive floor coverings are to be used, we recommend that slabs be underlain by a vapor retarder and capillary break system consisting of a 10-mil polyethylene (or equivalent) membrane placed over 4 inches of medium to coarse, clean sand or pea gravel and overlain by an additional 2 inches of sand to help protect the membrane from puncture during placement and to aid in concrete curing. The exposed subgrade should be moistened just prior to the placement of concrete.

7.6. Concrete Flatwork

To reduce the potential manifestation of distress to exterior concrete flatwork due to minor soil movement and concrete shrinkage, we recommend that such flatwork be installed with crack-control joints at appropriate spacing as designed by the structural engineer. Subgrades should be prepared in accordance with the earthwork recommendations presented herein. Positive drainage should be established and maintained adjacent to flatwork.

7.7. Corrosion

Laboratory testing was performed on representative samples of the on-site earth materials to evaluate pH and electrical resistivity, as well as chloride and sulfate contents. The pH and electrical resistivity tests were performed in accordance with California Test (CT) 643 and the sulfate and chloride content tests were performed in accordance with CT 417 and CT 422, respectively. These laboratory test results are presented in Appendix B.

The results of the corrosivity testing indicated electrical resistivity values of 1,300 ohm-cm, a soil pH value of 7.5, chloride content of 315 parts per million (ppm) and a sulfate content of 0.025 percent (i.e., 250 ppm). Based on the Caltrans corrosion (2012) criteria and ACI 318, the on-site soils would not be classified as corrosive. Corrosive soils are defined as soils as soils with a resistivity of 1,000 ohm-cm or less, more than 500 ppm chlorides, more than 0.1 percent sulfates, and/or a pH less than 5.5.

7.8. Concrete

Concrete in contact with soil or water that contains high concentrations of water-soluble sulfates can be subject to premature chemical and/or physical deterioration. As stated above, the soil sample tested in this evaluation indicated a water-soluble sulfate content of 0.025 percent by weight (i.e., about 250 ppm). According to the ACI 318, the potential for sulfate attack is negligible for water-soluble sulfate contents of up to about 0.1 percent by weight (i.e., 1,000 ppm) in soils. Therefore, the site soils may be considered to have a negligible potential for sulfate attack. Although significant sulfate content was not indicated, due to the variability of soils we recommend that Type II/V cement be considered for concrete construction with a water-cement ratio no higher than 0.45 by weight for normal weight aggregate concrete in contact with soil.

7.9. Drainage

Roof, pad and slope drainage should be directed such that runoff water is diverted away from slopes and structures to suitable discharge areas by nonerodible devices (e.g., gutters, downspouts, concrete swales, etc.). Positive drainage adjacent to structures should be estab-

lished and maintained. Positive drainage may be accomplished by providing drainage away from the foundations of the structure at a gradient of 2 percent or steeper for a distance of 5 feet or more outside the building perimeter, and further maintained by a graded swale leading to an appropriate outlet, in accordance with the recommendations of the project civil engineer and/or landscape architect.

Surface drainage on the site should be provided so that water is not permitted to pond. A gradient of 2 percent or steeper should be maintained over the pad area and drainage patterns should be established to divert and remove water from the site to appropriate outlets.

Care should be taken by the contractor during final grading to preserve any berms, drainage terraces, interceptor swales or other drainage devices of a permanent nature on or adjacent to the property. Drainage patterns established at the time of final grading should be maintained for the life of the project. The property owner and the maintenance personnel should be made aware that altering the drainage patterns might be detrimental to slope stability and foundation performance.

7.10. Shade Structure/Light Pole Foundations

Shade structures and light poles may be supported on cast-in-drilled/cored-hole piles. Shade structures and light poles typically impose relatively light axial loads on foundations. Although we anticipate that pile dimensions will be generally controlled by the lateral load demand, we recommend that drilled/cored shade structure/light pole foundations have a diameter of 2 feet or more. The pile dimensions (i.e., diameter and embedment) should be evaluated by the project structural engineer.

The drilled/cored pile construction should be observed by the project geotechnical consultant during construction to evaluate if the piles have been extended to the design depths. The drilled/cored holes should be cleaned of loose soil and gravel. It is the contractor's responsibility to (a) take appropriate measures for maintaining the integrity of the holes, (b) see that the holes are cleaned and straight, and (c) see that sloughed loose material is removed from the bottom of the hole prior to the placement of concrete. Drilled/cored piles should be checked for alignment and plumbness during installation. The amount of acceptable misa-

lignment of a pile is approximately 3 inches from the plan location. It is usually acceptable for a pile to be out of plumb by 1 percent of the depth of the pile. The center-to-center spacing of piles should be no less than three times the nominal diameter of the pile.

For resistance of light pole footings to lateral loads that are founded in compacted fill or metavolcanic rock, we recommend an allowable passive pressure of 350 psf of depth be used with a value of up to 3,500 psf. This value assumes that the light poles are designed to tolerate ½ inch of deflection at the surface and that the ground is horizontal for a distance of 10 feet, or three times the height generating the passive pressure, whichever is greater. We recommend that the upper 1 foot of soil not protected by pavement or a concrete slab be neglected when calculating passive resistance.

For frictional resistance to lateral loads, we recommend a coefficient of friction of 0.4 be used between soil and concrete. The allowable lateral resistance can be taken as the sum of the frictional resistance and passive resistance provided the passive resistance does not exceed one-half of the total allowable resistance. The passive resistance values may be increased by one-third when considering loads of short duration such as wind or seismic forces.

7.11. Preliminary Flexible Pavement Design

We understand that traffic will consist primarily of automobiles, light trucks, and occasional heavy trucks and fire trucks. For design we have assumed an R-value of 30 and Traffic Indices (TI) of 5.0, 6.0, and 7.0 for site pavements. The preliminary recommended pavement sections are as follows:

Table 4 – Recommended Preliminary Pavement Sections

Traffic Index (Location)	Design R-Value	Asphalt Concrete (in)	Class 2 Aggregate Base (in)
5.0	30	3	6
6.0	30	3	8
7.0	30	4	9

As indicated, these values assume traffic indices of 5.0, 6.0, and 7.0 for site pavements. In addition, we recommend that the upper 12 inches of the subgrade be compacted to a relative compaction of 95 or more percent relative density as evaluated by the current version of ASTM D 1557. If traffic loads are different from those assumed, the pavement design should be re-evaluated.

7.12. Concrete Pavement Design

We suggest that consideration be given to using Portland cement concrete pavements for areas where dumpsters will be stored and where refuse trucks will stop and load. Experience indicates that refuse truck traffic can significantly shorten the useful life of AC sections. We recommend that in these areas, 6 inches of 600 psi flexural strength Portland cement concrete reinforced with No. 4 bars, 18 inches on center, be placed over 6 inches or more of Class 2 aggregate base compacted to a relative compaction of 95 percent. We recommend that the upper 12 inches of the subgrade be compacted to a relative compaction of 95 percent.

7.13. Pre-Construction Conference

We recommend that a pre-construction meeting be held prior to commencement of grading. The owner or his representative, the agency representatives, the architect, the civil engineer, Ninyo & Moore, and the contractor should attend to discuss the plans, the project, and the proposed construction schedule.

7.14. Plan Review and Construction Observation

The conclusions and recommendations presented in this report are based on analysis of observed conditions in widely spaced exploratory borings. If conditions are found to vary from those described in this report, Ninyo & Moore should be notified, and additional recommendations will be provided upon request. Ninyo & Moore should review the final project drawings and specifications prior to the commencement of construction. Ninyo & Moore should perform the needed observation and testing services during construction operations.

The recommendations provided in this report are based on the assumption that Ninyo & Moore will provide geotechnical observation and testing services during construction. In the event that it is decided not to utilize the services of Ninyo & Moore during construction, we request that the selected consultant provide the client with a letter (with a copy to Ninyo & Moore) indicating that they fully understand Ninyo & Moore's recommendations, and that they are in full agreement with the design parameters and recommendations contained in this report. Construction of proposed improvements should be performed by qualified subcontractors utilizing appropriate techniques and construction materials.

8. LIMITATIONS

The field evaluation, laboratory testing, and geotechnical analyses presented in this report have been conducted in general accordance with current practice and the standard of care exercised by geotechnical consultants performing similar tasks in the project area. No warranty, expressed or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Constrains related to environmentally sensitive areas have limited our ability to access and evaluate the entire site. Variations may exist and conditions not observed or described in this report may be encountered during construction. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report is intended for design purposes only. It does not provide sufficient data to prepare an accurate bid by contractors. It is suggested that the bidders and their geotechnical consultant perform an independent evaluation of the subsurface conditions in the project areas. The independent evaluations may include, but not be limited to, review of other geotechnical reports prepared for the adjacent areas, site reconnaissance, and additional exploration and laboratory testing.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. If geotechnical conditions different from those described in this report are encountered, our office should be notified, and additional recommendations, if warranted, will be provided upon request. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no controls.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

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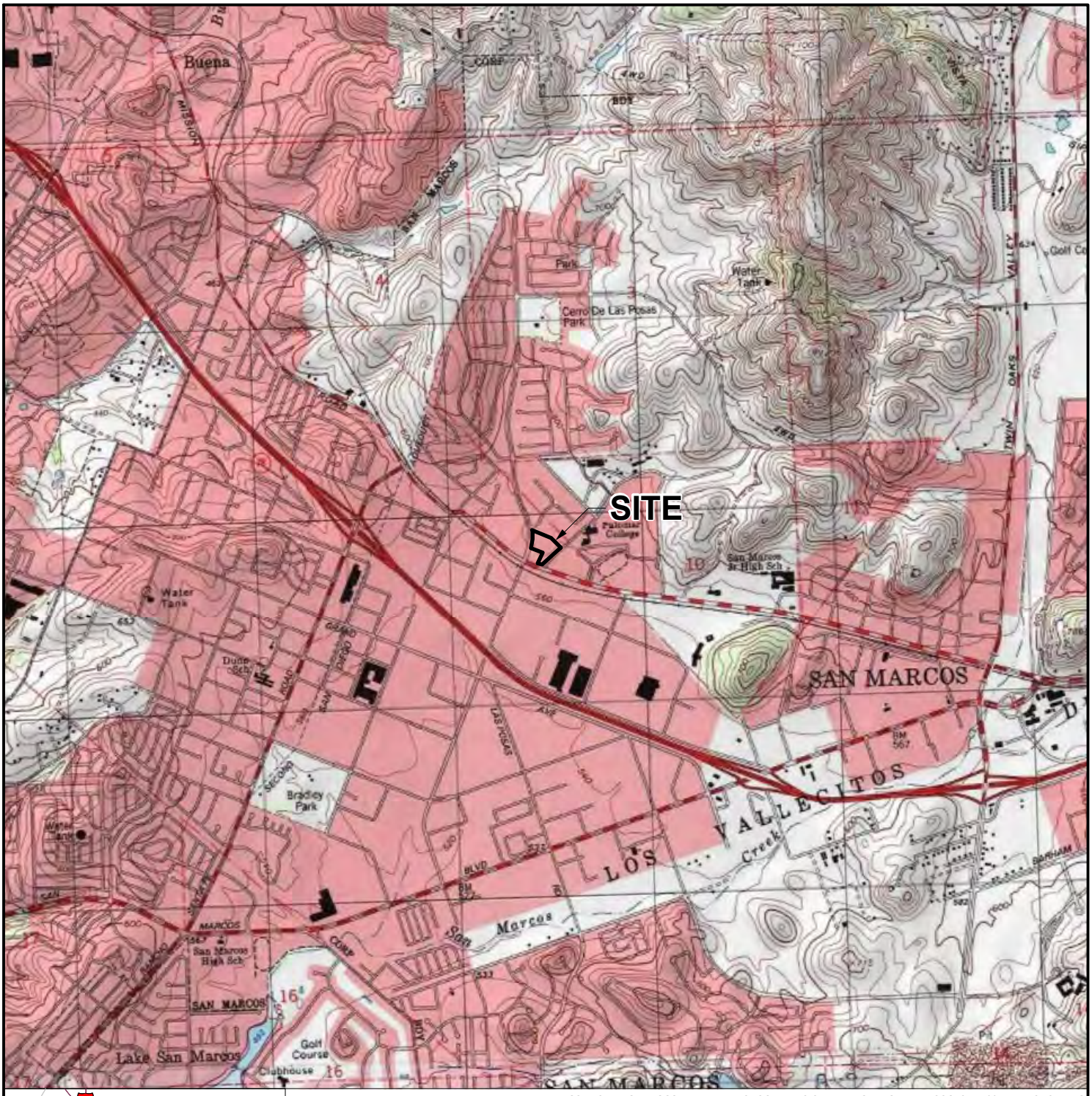
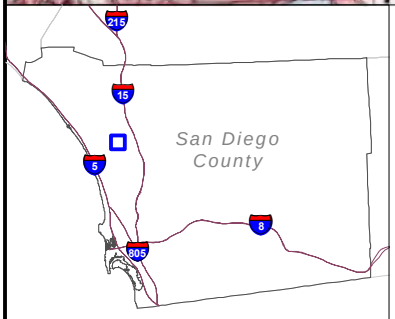
AERIAL PHOTOGRAPHS

Source	Date	Flight	Numbers	Scale
USDA	March 31, 1953	AXN-4M	25 and 26	1:20,000





MAP EXTENT

SOURCE: BASE - USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE - SAN MARCOS, CA - 1997, ALL TOPO MAPS (C)1998, 1999, 2000, 2001, 2002 IGAGE MAPPING CORPORATION

SCALE IN FEET

0 1,200 2,400 4,800

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	1

1_106435019_SL.mxd AOB

LEGEND

- PROJECT BOUNDARY
- B-6 / TD=10.0' — BORING, TD=TOTAL DEPTH IN FEET
- MW-2 — MONITORING WELL
- SL-2 — SEISMIC LINE
- PROPOSED BUILDING
- B B' — GEOLOGIC CROSS SECTION

SOURCE: AERIAL IMAGERY - PHOTO DATE: AUG, 2010; (C) GOOGLE EARTH, 2011

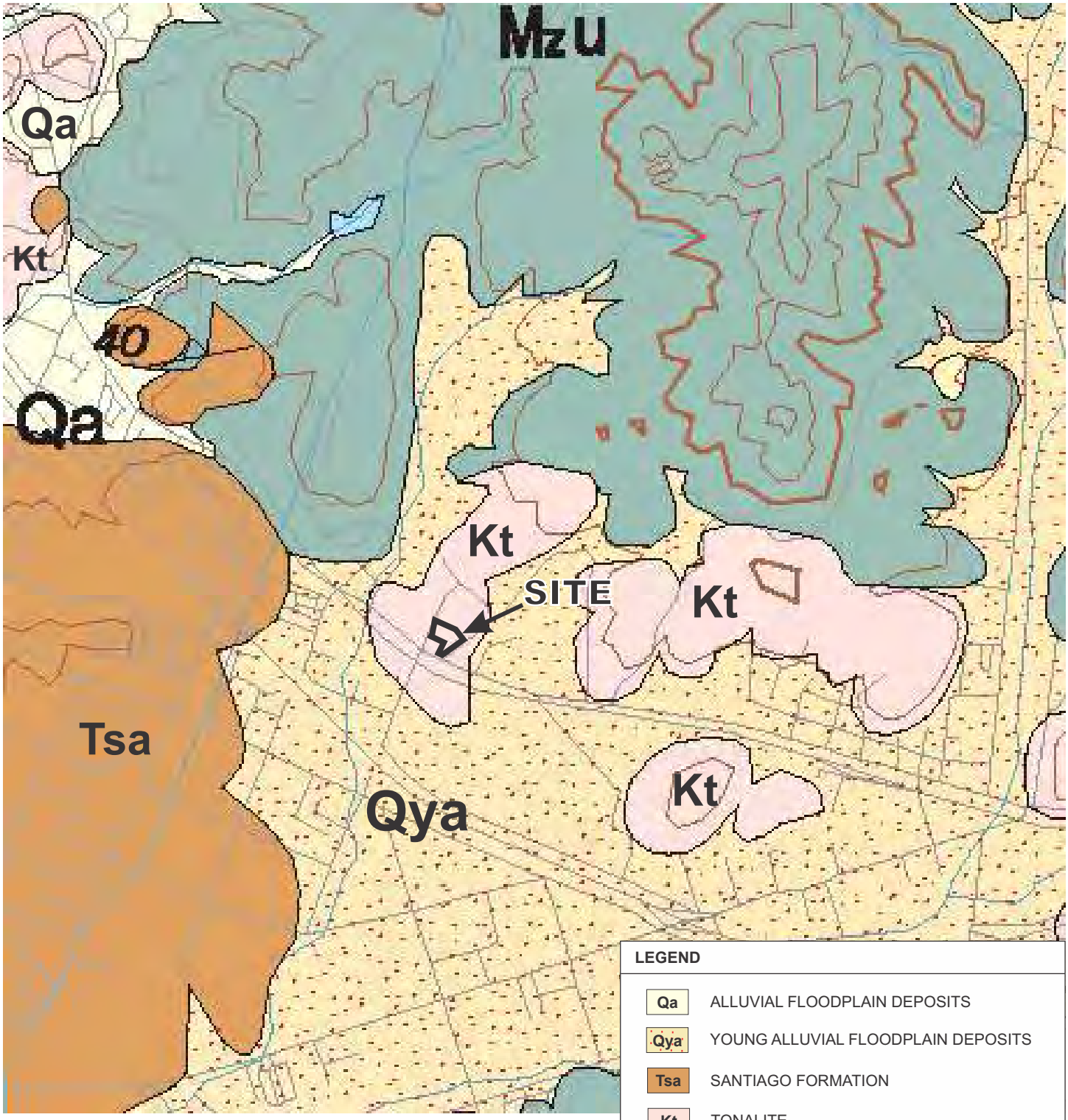
SCALE IN FEET

0 40 80 160

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	GEOTECHNICAL MAP	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	2

2_106435019_GM.mxd AOB



LEGEND

Qa	ALLUVIAL FLOODPLAIN DEPOSITS
Qya	YOUNG ALLUVIAL FLOODPLAIN DEPOSITS
Tsa	SANTIAGO FORMATION
Kt	TONALITE
Mzu	METASEDIMENTARY AND METAVOLCANIC ROCKS UNDIVIDED
10	STRIKE AND DIP OF INCLINED SEDIMENTARY BEDS

SCALE IN FEET

0 2000 4000

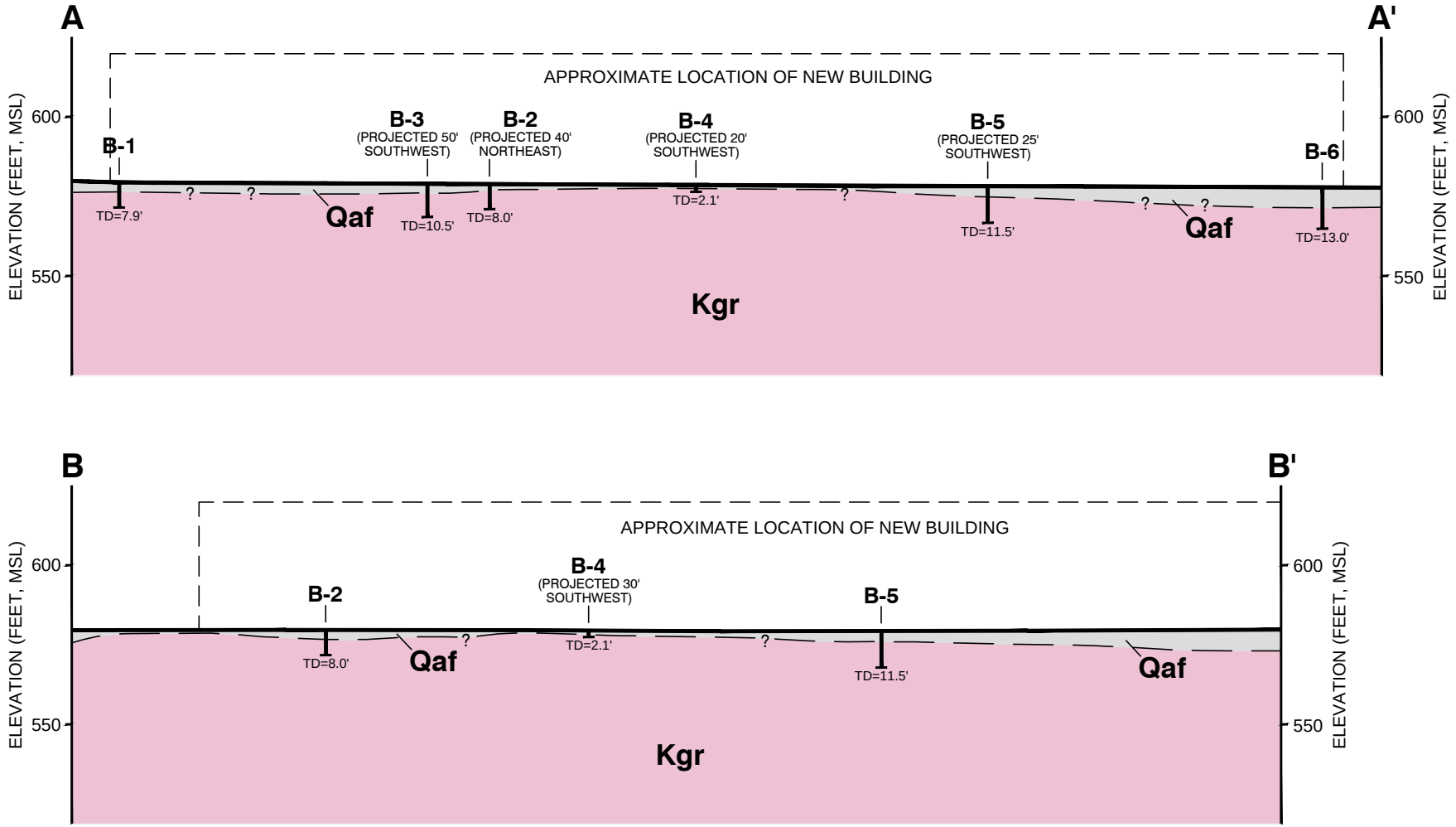
N

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

REFERENCE: KENNEDY, M.P., AND TAN, S.S., 2005, GEOLOGIC MAP OF THE OCEANSIDE 30' X 60' QUADRANGLE, CALIFORNIA.

Ninyo & Moore	GEOLOGY	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	3

3 106435019 G.cdr AOB



LEGEND

B-6 (TD=13.0')	BORING TD=TOTAL DEPTH IN FEET
—— ? ——	GEOLOGIC CONTACT, QUERIED WHERE UNCERTAIN
Qaf	FILL
Kgr	GRANITIC ROCK

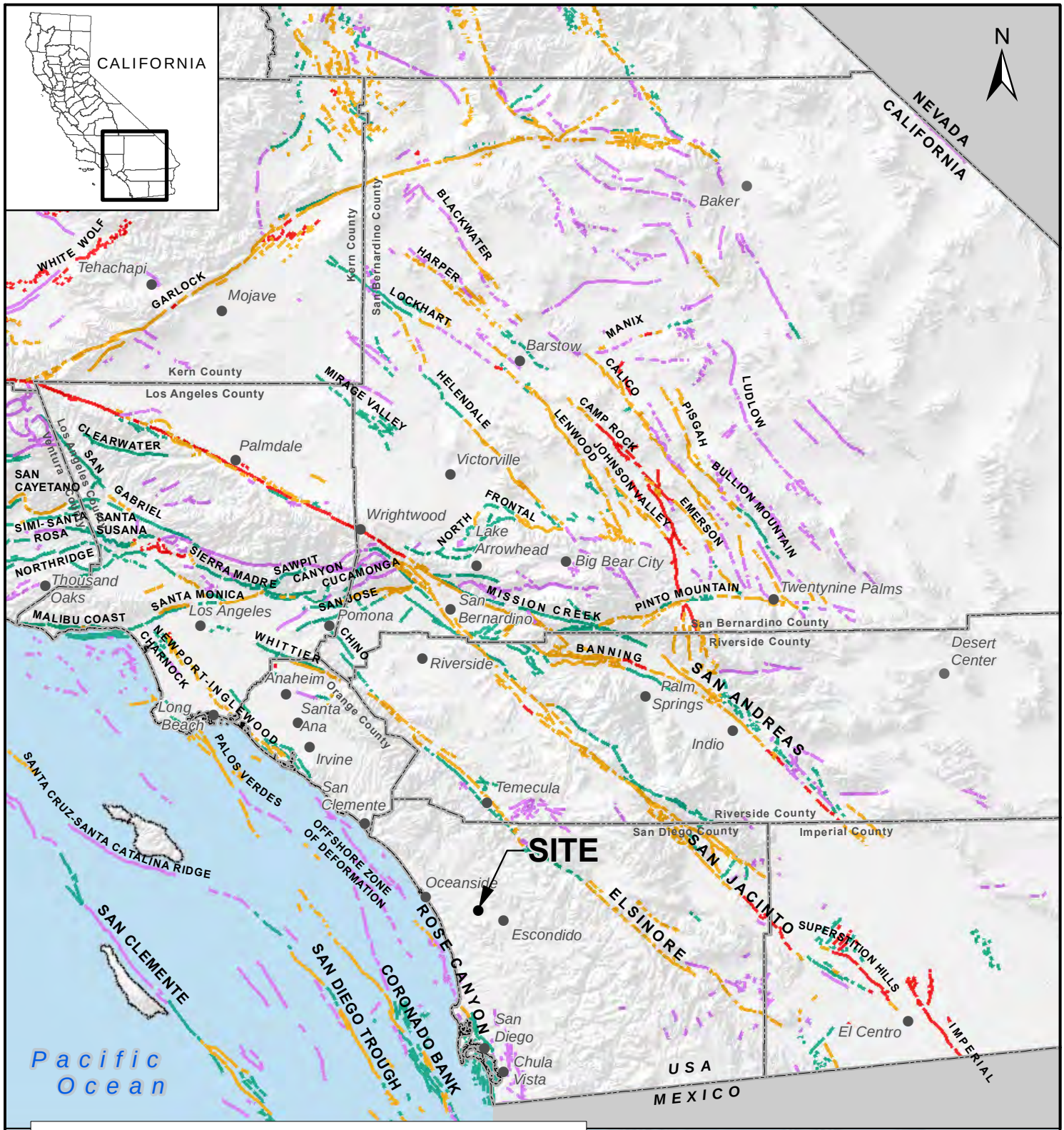
NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE

SCALE IN FEET

0 50 100

Ninyo & Moore	CROSS SECTION A-A' AND B-B'	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	4

4 106435019 cs a-a' b-b'.dwg



LEGEND

CALIFORNIA FAULT ACTIVITY

- HISTORICALLY ACTIVE
- HOLOCENE ACTIVE
- LATE QUATERNARY (POTENTIALLY ACTIVE)
- QUATERNARY (POTENTIALLY ACTIVE)
- STATE/COUNTY BOUNDARY

SOURCE: JENNINGS, C.W., AND BRYANT, W.A., 2010, FAULT ACTIVITY MAP OF CALIFORNIA, CALIFORNIA GEOLOGICAL SURVEY.

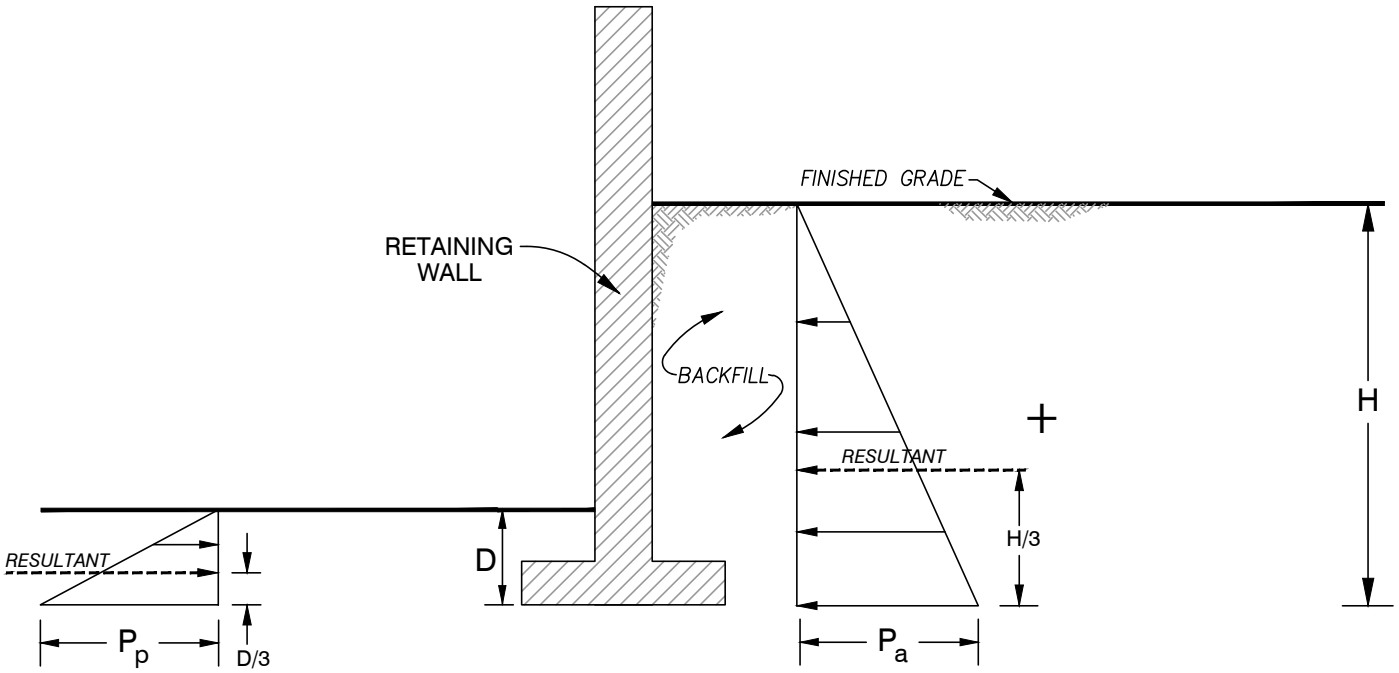
SCALE IN MILES

0 30 60

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	FAULT LOCATIONS	FIGURE
PROJECT NO. / DATE	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	5
106435019 / 5/15		

5_106435019_F.mxd AOB



NOTES:

1. ASSUMES NO HYDROSTATIC PRESSURE BUILD-UP BEHIND THE RETAINING WALL
2. GRANULAR BACKFILL MATERIALS SHOULD BE USED FOR RETAINING WALL BACKFILL
3. DRAINS AS RECOMMENDED IN THE RETAINING WALL DRAINAGE DETAIL SHOULD BE INSTALLED BEHIND THE RETAINING WALL
4. SURCHARGE PRESSURES CAUSED BY VEHICLES OR NEARBY STRUCTURES ARE NOT INCLUDED
5. H AND D ARE IN FEET
6. SETBACK SHOULD BE IN ACCORDANCE WITH THE CBC (2013)

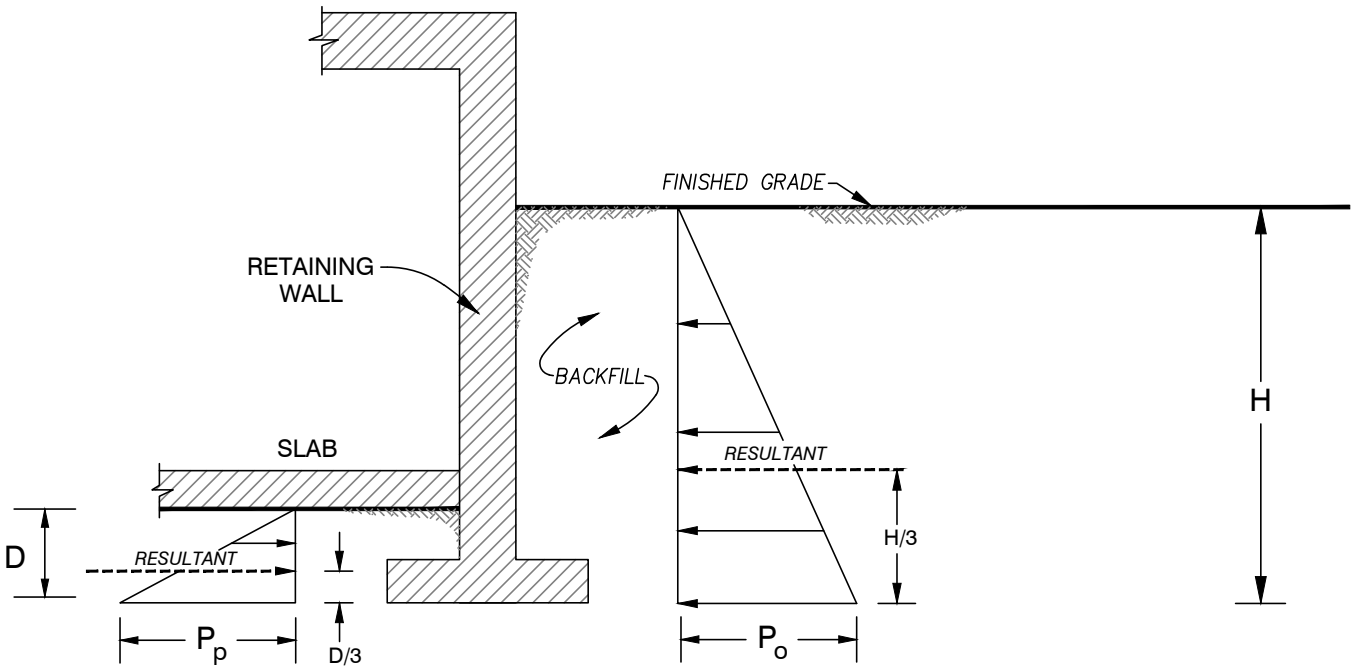
RECOMMENDED GEOTECHNICAL DESIGN PARAMETERS

Lateral Earth Pressure	Equivalent Fluid Pressure ($lb/ft^2/ft$) [1]
P_a	Level Backfill with Granular Soils [2]
	30 H
P_p	Level Ground
	350 D

NOT TO SCALE

6 106435019 d-yrw.dwg

Ninyo & Moore		LATERAL EARTH PRESSURES FOR YIELDING RETAINING WALLS	FIGURE
PROJECT NO.	DATE	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	6
106435019	5/15		



NOTES:

1. ASSUMES NO HYDROSTATIC PRESSURE BUILD-UP BEHIND THE RETAINING WALL
2. GRANULAR BACKFILL MATERIALS SHOULD BE USED FOR RETAINING WALL BACKFILL
3. DRAINS AS RECOMMENDED IN THE RETAINING WALL DRAINAGE DETAIL SHOULD BE INSTALLED BEHIND THE RETAINING WALL
4. SURCHARGE PRESSURES CAUSED BY VEHICLES OR NEARBY STRUCTURES ARE NOT INCLUDED
5. H AND D ARE IN FEET

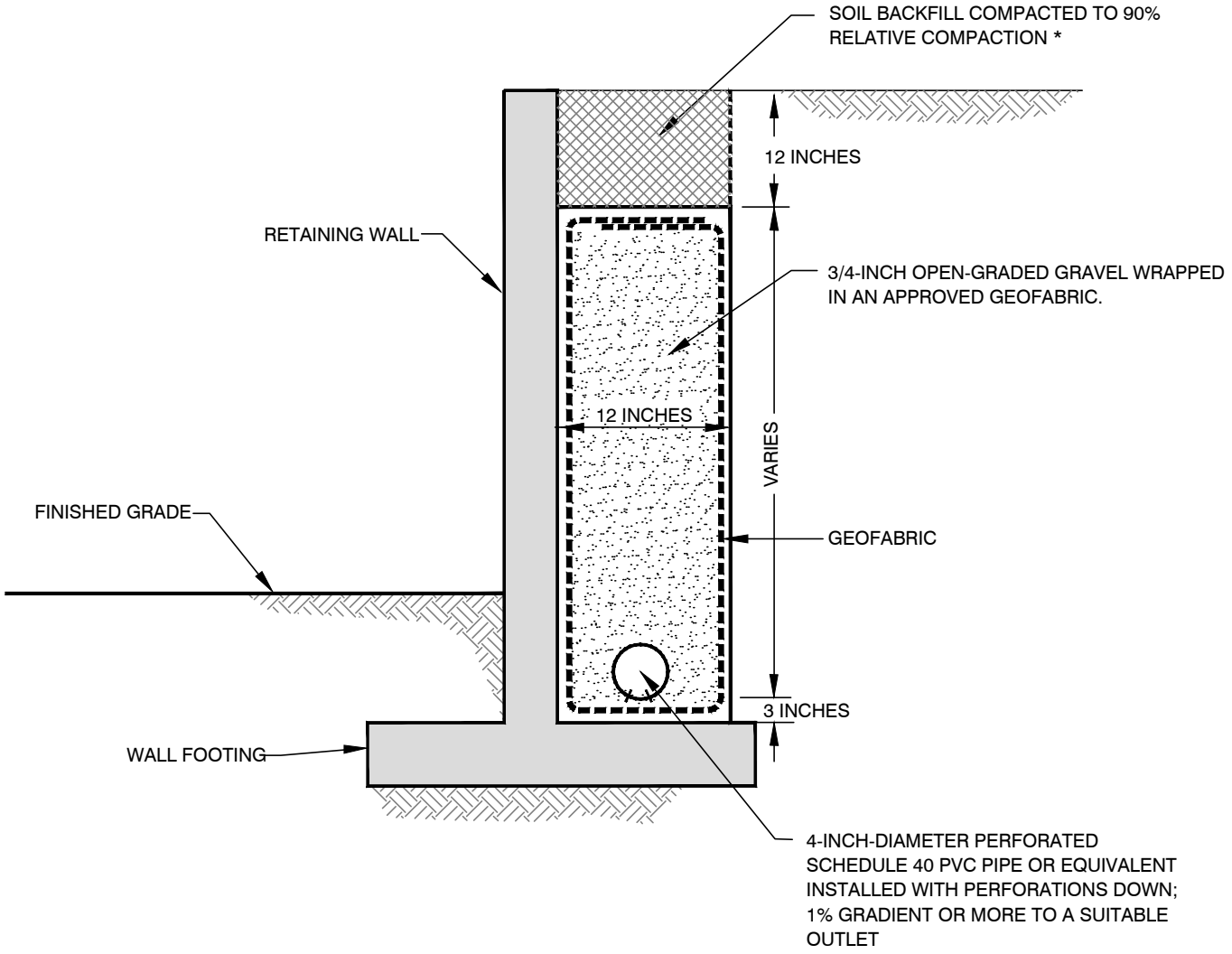
RECOMMENDED GEOTECHNICAL DESIGN PARAMETERS

Lateral Earth Pressure	Equivalent Fluid Pressure (lb/ft^2/ft)[1]
P_O	Level Backfill with Granular Soils[2]
	50 H
P_p	Level Ground
	350 D

NOT TO SCALE

7 106435019 d-rrw.dwg

Ninyo & Moore		LATERAL EARTH PRESSURES FOR RESTRAINED RETAINING WALLS	FIGURE
PROJECT NO.	DATE	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	7
106435019	5/15		



*BASED ON ASTM D1557

NOT TO SCALE

8 106435019 d-rw.dwg

NOTE: AS AN ALTERNATIVE, AN APPROVED GEOCOMPOSITE DRAIN SYSTEM MAY BE USED.

Ninyo & Moore	RETAINING WALL DRAINAGE DETAIL	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	8

APPENDIX A

BORING AND MONITORING WELL LOGS

Field Procedure for the Collection of Disturbed Samples

Disturbed soil samples were obtained in the field using the following methods.

Bulk Samples

Bulk samples of representative earth materials were obtained from the exploratory borings. The samples were bagged and transported to the laboratory for testing.

The Standard Penetration Test (SPT) Sampler

Disturbed drive samples of earth materials were obtained by means of a Standard Penetration Test sampler. The sampler is composed of a split barrel with an external diameter of 2 inches and an unlined internal diameter of 1-3/8 inches. The sampler was driven into the ground 12 to 18 inches with a 140-pound hammer free-falling from a height of 30 inches in general accordance with ASTM D 1586. The blow counts were recorded for every 6 inches of penetration; the blow counts reported on the logs are those for the last 12 inches of penetration. Soil samples were observed and removed from the sampler, bagged, sealed and transported to the laboratory for testing.

Field Procedure for the Collection of Relatively Undisturbed Samples

Relatively undisturbed soil samples were obtained in the field using the following method.

The Modified Split-Barrel Drive Sampler

The sampler, with an external diameter of 3.0 inches, was lined with 1-inch long, thin brass rings with inside diameters of approximately 2.4 inches. The sample barrel was driven into the ground with the weight of a hammer of the drill rig in general accordance with ASTM D 3550. The driving weight was permitted to fall freely. The approximate length of the fall, the weight of the hammer, and the number of blows per foot of driving are presented on the boring logs as an index to the relative resistance of the materials sampled. The samples were removed from the sample barrel in the brass rings, sealed, and transported to the laboratory for testing.

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
0	■							Bulk sample.
		■						Modified split-barrel drive sampler.
		▩						2-inch inner diameter split-barrel drive sampler.
		▨						No recovery with modified split-barrel drive sampler, or 2-inch inner diameter split-barrel drive sampler.
		▥						Sample retained by others.
5		◪						Standard Penetration Test (SPT).
		▨						No recovery with a SPT.
		▥	XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
		▨						No recovery with Shelby tube sampler.
		▥						Continuous Push Sample.
10				⚲				Seepage.
				▽				Groundwater encountered during drilling.
				▼				Groundwater measured after drilling.
						▨	SM	MAJOR MATERIAL TYPE (SOIL): Solid line denotes unit change.
						▨	CL	Dashed line denotes material change.
15						▨		Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Shear Bedding Surface
								The total depth line is a solid line that is drawn at the bottom of the boring.
20								

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BORING LOG

Explanation of Boring Log Symbols

PROJECT NO.	DATE	FIGURE

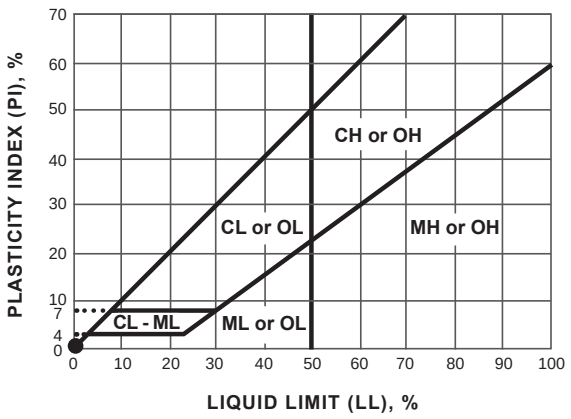
SOIL CLASSIFICATION CHART PER ASTM D 2488

PRIMARY DIVISIONS			SECONDARY DIVISIONS	
			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	**GRAVEL** more than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVEL less than 5% fines	GW	well-graded GRAVEL
			GP	poorly graded GRAVEL
		GRAVEL with DUAL CLASSIFICATIONS 5% to 12% fines	GW-GM	well-graded GRAVEL with silt
			GP-GM	poorly graded GRAVEL with silt
			GW-GC	well-graded GRAVEL with clay
			GP-GC	poorly graded GRAVEL with clay
		GRAVEL with FINES more than 12% fines	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND 50% or more of coarse fraction passes No. 4 sieve	CLEAN SAND less than 5% fines	SW	well-graded SAND
			SP	poorly graded SAND
		SAND with DUAL CLASSIFICATIONS 5% to 12% fines	SW-SM	well-graded SAND with silt
			SP-SM	poorly graded SAND with silt
			SW-SC	well-graded SAND with clay
			SP-SC	poorly graded SAND with clay
		SAND with FINES more than 12% fines	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS 50% or more passes No. 200 sieve	**SILT and CLAY** liquid limit less than 50%	INORGANIC	CL	lean CLAY
			ML	SILT
			CL-ML	silty CLAY
		ORGANIC	OL (PI > 4)	organic CLAY
			OL (PI < 4)	organic SILT
	SILT and CLAY liquid limit 50% or more	INORGANIC	CH	fat CLAY
			MH	elastic SILT
		ORGANIC	OH (plots on or above "A"-line)	organic CLAY
			OH (plots below "A"-line)	organic SILT
	Highly Organic Soils		PT	Peat

GRAIN SIZE

DESCRIPTION		SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE
Boulders		> 12"	> 12"	Larger than basketball-sized
Cobbles		3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized
	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized
Sand	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized
	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized
	Fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized
Fines		Passing #200	< 0.0029"	Flour-sized and smaller

PLASTICITY CHART



APPARENT DENSITY - COARSE-GRAINED SOIL

APPARENT DENSITY	SPOOLING CABLE OR CATHEAD		AUTOMATIC TRIP HAMMER	
	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5
Loose	5 - 10	9 - 21	4 - 7	6 - 14
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42
Dense	31 - 50	64 - 105	21 - 33	43 - 70
Very Dense	> 50	> 105	> 33	> 70

CONSISTENCY - FINE-GRAINED SOIL

CONSIS-TENCY	SPOOLING CABLE OR CATHEAD		AUTOMATIC TRIP HAMMER	
	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)
Very Soft	< 2	< 3	< 1	< 2
Soft	2 - 4	3 - 5	1 - 3	2 - 3
Firm	5 - 8	6 - 10	4 - 5	4 - 6
Stiff	9 - 15	11 - 20	6 - 10	7 - 13
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26
Hard	> 30	> 39	> 20	> 26

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USCS METHOD OF SOIL CLASSIFICATION

Explanation of USCS Method of Soil Classification

PROJECT NO.	DATE	FIGURE

DATE DRILLED 4/17/15 BORING NO. B-1/MW-2

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY RDH

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Light gray, moist, loose, silty GRAVEL with sand.
		50/3"				SM	Yellow brown, moist, dense, silty SAND; few to little gravel.
		50/4"					GRANITIC ROCK: Grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
		50/3"					
5		50/1"					(Difficult drilling.)
							Total Depth = 7.9 feet. (Refusal) Groundwater not encountered during drilling. Monitoring well constructed shortly after drilling on 4/17/15.
10							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
15							
20							

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BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-1

DATE DRILLED 4/17/15 BORING NO. B-2

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY RDH

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
		50/1"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
		50/3"					
5		50/1"					
		50/2"					(Difficult drilling.)
							Total Depth = 8 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15.
10							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-2

DATE DRILLED 4/17/15 BORING NO. B-3

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY RDH

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
		50/6"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
		50/2"					
5		50/1"					
		50/2"					
							(Difficult drilling.)
10		50/1"					
							Total Depth = 10.5 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-3

DATE DRILLED 4/17/15 BORING NO. B-4

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY RDH

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
			50/1"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK. (Difficult drilling.)
								Total Depth = 2.1 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15.
5								Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
10								
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20								

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-4

DATE DRILLED 4/17/15 BORING NO. B-5

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY RDH

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
			4.1	117.8		SM	Light reddish brown, moist, dense, silty SAND; little gravel; little clay.
		86/11"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
5		50/3"					
10		50/2"					(Difficult drilling.) Grayish brown.
							Total Depth = 11.5 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-5

DATE DRILLED 4/17/15 BORING NO. B-6/MW-1

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY RDH

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, loose, silty GRAVEL with sand.
						SM	Reddish brown, moist, medium dense, silty SAND; little gravel.
		50/6"	10.4	123.2			
5		49					Brown to grayish brown; trace to few gravel.
							GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained weathered GRANITIC ROCK.
10		50/5"					(Difficult drilling.)
							Total Depth = 13 feet. (Refusal) Groundwater not encountered during drilling. Monitoring well constructed shortly after drilling on 4/17/15.
15							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
20							

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-6

APPENDIX B

GEOTECHNICAL LABORATORY TESTING

Classification

Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488-00. Soil classifications are indicated on the logs of the exploratory borings and excavations in Appendix A.

In-Place Moisture and Density Tests

The moisture content and dry density of relatively undisturbed samples obtained from the exploratory borings were evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

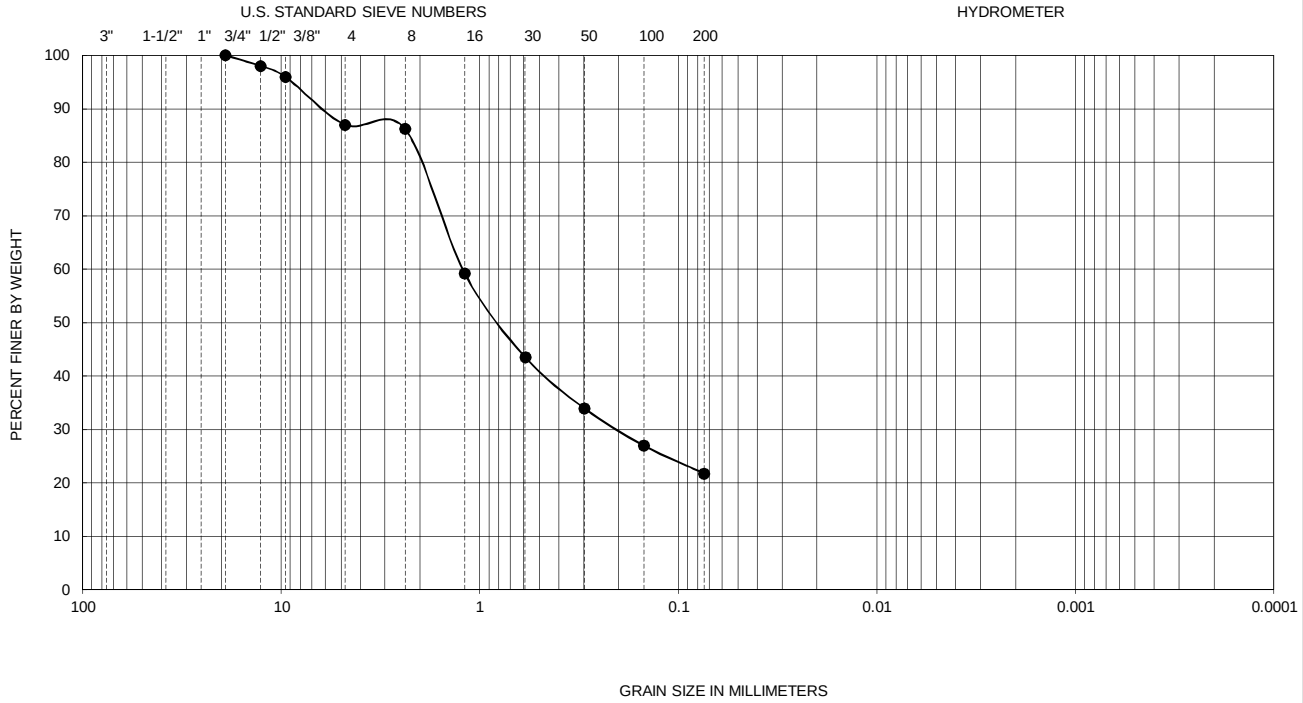
Gradation Analysis

Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. The grain-size distribution curves are shown on Figures B-1 and B-2. These test results were utilized in evaluating the soil classifications in accordance with USCS.

Soil Corrosivity Tests

Soil pH and resistivity tests were performed on a representative sample in general accordance with CT 643. The soluble sulfate and chloride content of a selected sample was evaluated in general accordance with CT 417 and CT 422, respectively. The test results are presented on Figure B-3.

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay

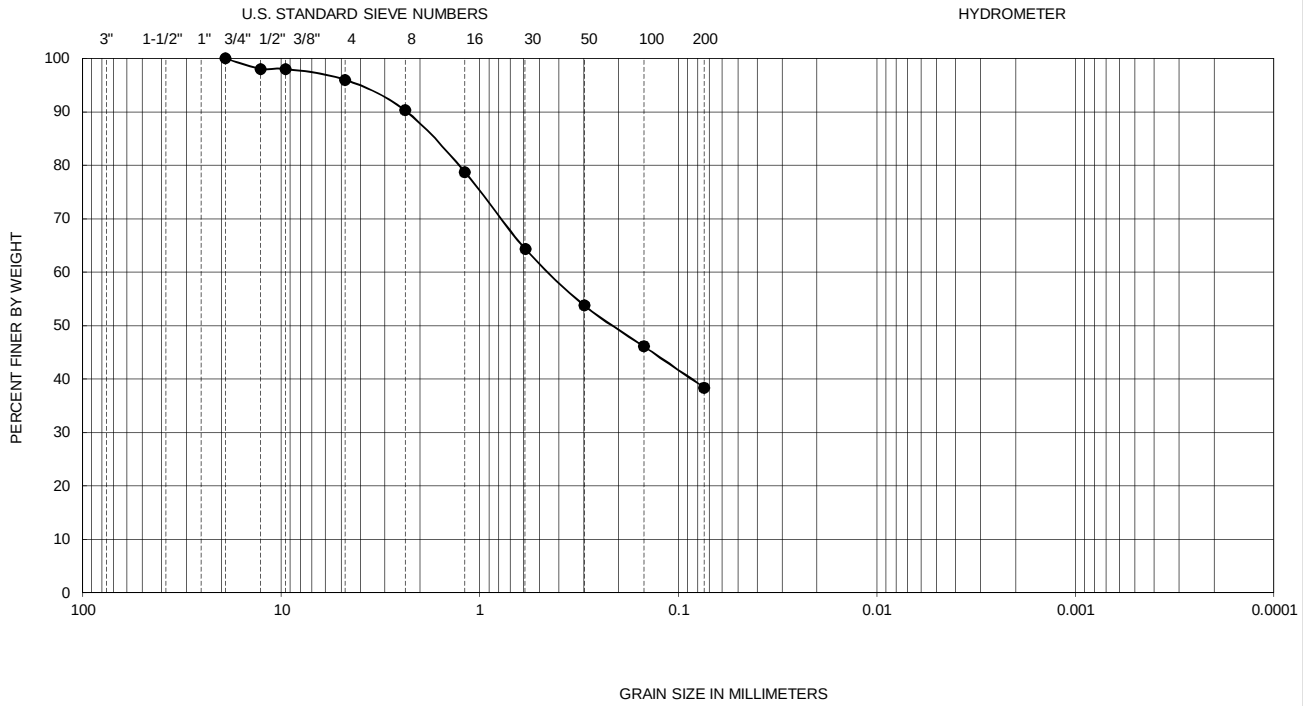


Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (%)	U.S.C.S
●	B-5	2.0-3.0	--	--	--	--	--	--	--	--	22	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

Ninyo & Moore	GRADATION TEST RESULTS	FIGURE
PROJECT NO. / DATE	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	B-1
106435019 / 5/15		

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	Silt	Clay



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (%)	U.S.C.S
●	B-6/MW-1	1.0-5.0	--	--	--	--	--	--	--	--	38	SM

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422

Ninyo & Moore	GRADATION TEST RESULTS	FIGURE
PROJECT NO. / DATE	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	B-2
106435019 / 5/15		

SAMPLE LOCATION	SAMPLE DEPTH (FT)	pH [1]	RESISTIVITY [1] (Ohm-cm)	SULFATE CONTENT [2]		CHLORIDE CONTENT [3] (ppm)
				(ppm)	(%)	
B-6/MW-1	1.0-5.0	7.5	1,300	250	0.025	315

[1] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 643
[2] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 417
[3] PERFORMED IN GENERAL ACCORDANCE WITH CALIFORNIA TEST METHOD 422

Ninyo & Moore	CORROSIVITY TEST RESULTS	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	B-3

APPENDIX C

SOIL ENVIRONMENTAL ASSESSMENT (NINYO & MOORE, 2015)

May 15, 2015
Project No. 106435020

Mr. Ralph Johnson
Facilities Planning/EHS
Palomar College
1140 West Mission Road, Suite A-4A
San Marcos, California 92069

Subject: Letter Report – Soil Environmental Assessment
Proposed Las Posas Project
Palomar College
San Marcos, California

Dear Mr. Johnson:

In accordance with Ninyo & Moore's proposal dated January 30, 2015 and your purchase order number 0000009470 dated March 26, 2015, Ninyo & Moore is pleased to provide this letter report summarizing the results of a screening level environmental assessment of soil conducted in conjunction with geotechnical field activities provided for the referenced site (Figures 1 and 2). It is our understanding that the college plans to construct buildings along the northern portion of the site and that the college is seeking information related to the potential presence of environmentally impacted soil associated with past agricultural use.

The purpose of this investigation was to provide information related to potential environmental impacts in soil prior to the initiation of construction activities. It is our understanding that a layer of imported gravel approximately 1 foot thick was recently placed across the site. Based on this information, the shallowest environmental soil samples were collected below the gravel at a depth of approximately 1 foot below the original ground surface (bogs), then at 2 feet bogs, etc., with the sample depths referring to depth below the original ground surface, rather than depth below the current ground surface (top of the gravel layer). However, the depths of the geotechnical samples were measured from the current ground surface (top of the gravel layer) (below ground surface – bgs). The geotechnical report is provided under separate cover.

SCOPE OF SERVICES

The following scope of services was conducted:

- Prepared a site-specific Health and Safety Plan.
- Performed a site visit to observe site conditions and to mark the proposed boring locations.
- Obtained boring permits from the County of San Diego Department of Environmental Health (DEH).
- Notified Underground Service Alert (USA) and coordinated with a private utility locator to clear boring locations for the presence of underground utilities.
- Advanced six soil borings as part of the geotechnical evaluation using hollow stem auger (HSA) drilling equipment. For the purpose of measuring depth to groundwater, temporary groundwater monitoring wells were installed in two borings. Soil samples were collected at selected intervals and submitted to American Environmental Testing Laboratories (AETL) in Burbank, California, a laboratory certified by the state of California for the analysis of hazardous waste.
- Selected samples were analyzed for organochlorine pesticides by United States Environmental Protection Agency (USEPA) Method 8081A and arsenic by USEPA method 6010B.
- Compiled and evaluated the analytical data.
- Prepared this report presenting our findings, conclusions, and recommendations.

SAMPLING PROCEDURES

Field sampling activities were conducted on April 17, 2015. The borings were drilled using a truck-mounted drill rig equipped with 8-inch diameter HSA. Geotechnical and environmental samples were collected from the six HSA borings indicated on Figure 2. Total depth drilled for the borings ranged from 2.1 feet bgs (B-4) to 13 feet bgs (B-6). Drilling refusal was encountered in all six borings. Copies of the boring permit is provided in the geotechnical report.

The environmental samples were collected in laboratory-provided 8-ounce glass jars with Teflon-lined lids. The samples were then labeled and stored on ice in a cooler pending delivery under chain-of-custody protocol to the laboratory.

For the purpose of measuring depth to groundwater, temporary groundwater monitoring wells were installed in borings B1 and B6 (Figure 2). After completion of sampling, the surface at each boring was restored to match the surrounding area. Investigation-derived waste (IDW) (soil cuttings) was stored in three Department of Transportation-compliant 55-gallon drums in a secure onsite location pending disposal.

FIELD OBSERVATIONS

Fill material, consisting of light gray, moist, loose, silty gravel with sand, was encountered from the surface to a depth ranging from approximately 1 to 2 feet bgs across the site. In three borings (B2, B3, and B4), weathered granitic rock (yellowish to grayish brown, moist, fine- to medium-grained) was encountered below the fill. At the other locations (B1, B5, and B6), material consisting of yellow-brown, moist, dense, silty sand with minor gravel was encountered between the fill and the weathered granitic rock. Please refer to the geotechnical report for a more detailed description of the soils encountered. Copies of the boring logs are attached.

Groundwater was not encountered in the borings during drilling. As of the date of this report, geotechnical field staff have not returned to the site to check whether water has come into the two borings converted to monitoring wells.

ANALYTICAL RESULTS

The analytical results for organochlorine pesticides and arsenic are summarized in Tables 1 and 2, respectively. Neither organochlorine pesticides nor arsenic were detected in any of the soil samples analyzed. A copy of the laboratory analytical report is attached.

DISCUSSION OF FINDINGS

Organochlorine pesticides and arsenic were not detected in any of the soil samples analyzed.

INVESTIGATION-DERIVED WASTE

After receipt and review of the analytical results, the cuttings were found to be non-hazardous and the drums were transported back to Ninyo & Moore's office for appropriate disposal.

CONCLUSIONS AND RECOMMENDATIONS

This screening level environmental assessment of soil did not indicate the presence of soil impacts from organochlorine pesticides or arsenic. Therefore, past agricultural use does not appear to have resulted in residual levels of these materials in soil. Based on this information, special handling of soil during construction does not appear warranted, insofar as potential impacts from organochlorine pesticides or arsenic are concerned.

LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

We appreciate the opportunity to be of service.

Sincerely,
NINYO & MOORE

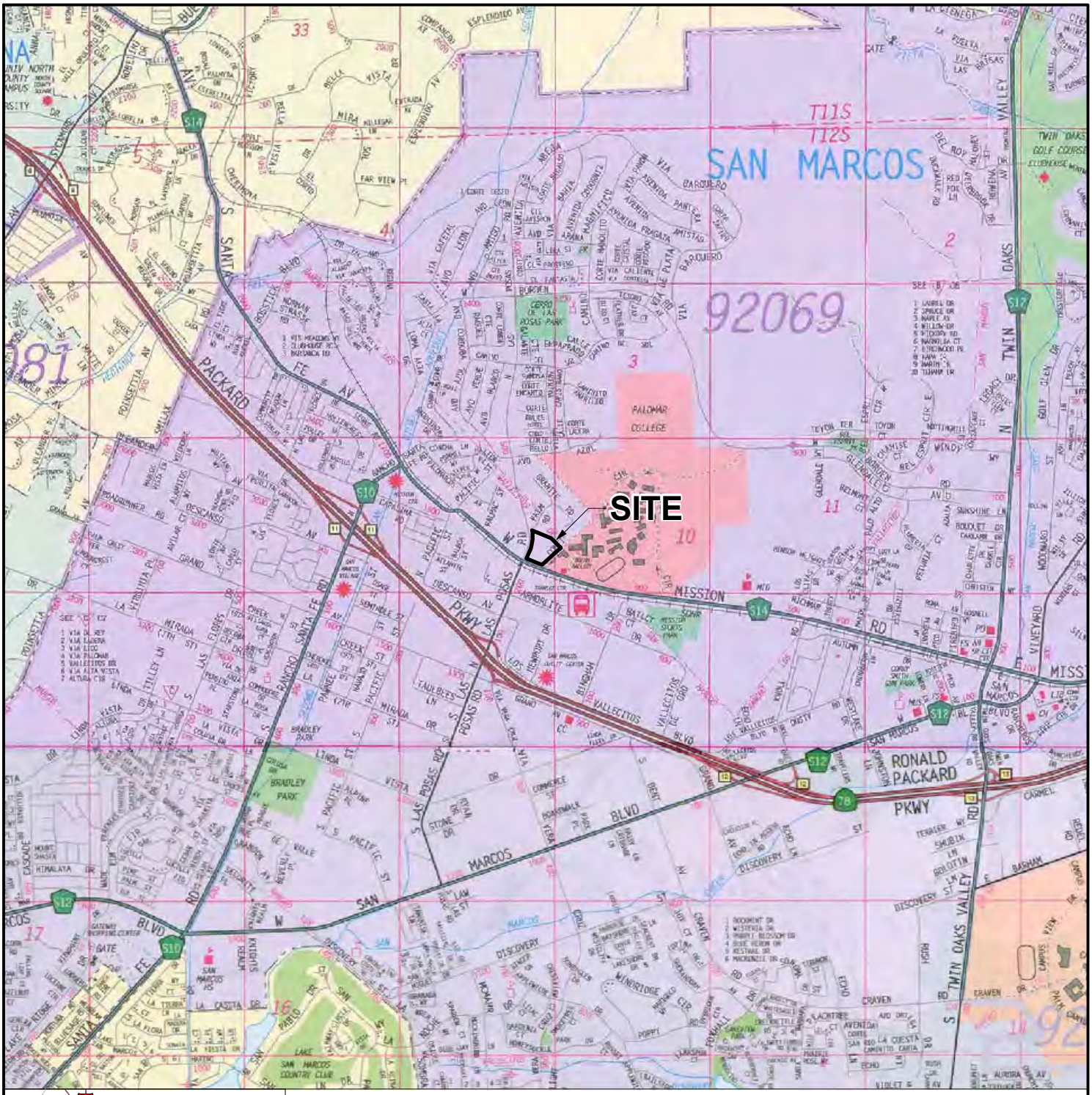
Steven A. Fry, PG 4780
Senior Geologist

Stephan A. Beck, PG 4375
Manager, Environmental Sciences Division

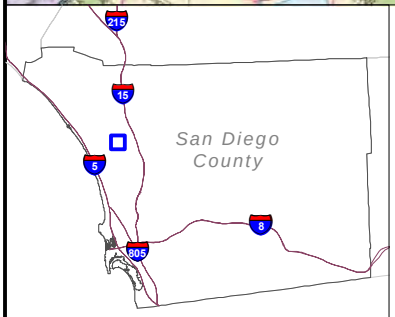
SAF/SB/gg

Attachments: Figure 1 – Site Location
Figure 2 – Geotechnical Map
Table 1 – Organochlorine Pesticides
Table 2 – Arsenic
Boring Logs
Laboratory Analytical Reports

Distribution: (1) Addressee (PDF)



SOURCE: 2008 Thomas Guide for San Diego County, Street Guide and Directory; Map © Rand McNally, R.L.07-S-129



SCALE IN FEET

0 1,200 2,400 4,800

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	1

1_106435019_SL.mxd AOB

SOURCE: AERIAL IMAGERY - PHOTO DATE: AUG, 2010; (C) GOOGLE EARTH, 2011

LEGEND

- PROJECT BOUNDARY
- B-6 (TD=10.0') BORING, TD=TOTAL DEPTH IN FEET
- MW-2 MONITORING WELL
- SL-2 SEISMIC LINES

SCALE IN FEET

0 40 80 160

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	GEOTECHNICAL MAP	FIGURE
PROJECT NO. 106435019 / DATE 5/15	LAS POSAS PROJECT PALOMAR COLLEGE SAN MARCOS, CALIFORNIA	2

2_106435019_GM.mxd AOB

Proposed Las Posas Project - Palomar College
San Marcos, California

Table 1 - Organochlorine Pesticides

May 15, 2015
Project No. 106435020

Location ID	B1	B1	B1	B2	B2	B2	B2	B3	B3	B3	B3	B4	B5	B5	B5	B5	B6	B6	B6	B6
Sample ID	B1-1	B1-2	B1-3	B2-1	B2-2	B2-3	B2-5	B3-1	B3-2	B3-3	B3-5	B4-1	B5-1	B5-2	B5-3	B5-5	B6-1	B6-2	B6-3	B6-5
Sample depth (ft. bogs)	1	2	3	1	2	3	5	1	2	3	5	1	1	2	3	5	1	2	3	5
Sample Date	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15
EPA Method	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A	8081A
Units	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aldrin	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chlordane (Total)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chlordane (alpha)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4,4'-DDD (DDD)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4,4'-DDE (DDE)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
4,4'-DDT (DDT)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Dieldrin	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Endosulfan 1	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Endosulfan 11	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Endosulfan sulfate	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Endrin	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Endrin aldehyde	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Endrin ketone	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Chlordane (gamma)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Heptachlor	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Heptachlor epoxide	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
alpha-Hexachlorocyclohexane (Alpha-BHC)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
beta-Hexachlorocyclohexane (Betta-BHC)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
delta-Hexachlorocyclohexane (Delta-BHC)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Methoxychlor	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
Toxaphene	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0	ND<85.0

Notes:

ND<X = Constituent(s) not detected at or above method detection limit
ug/Kg = micrograms per kilogram
ft. bogs = feet below original ground surface

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Table 2 - Arsenic

Location ID	B1	B1	B1	B2	B2	B2	B2	B3	B3	B3	STLC Limit mg/L	TCLP Limit mg/L	TTLC Limit mg/Kg
Sample ID	B1-1	B1-2	B1-3	B2-1	B2-2	B2-3	B2-5	B3-1	B3-2	B3-3			
Sample Depth (ft. bogs)	1	2	3	1	2	3	5	1	2	3			
Sample Date	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15			
EPA Method	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B			
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Arsenic	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5.0	5.0	500

Location ID	B3	B4	B5	B5	B5	B5	B6	B6	B6	B6	STLC Limit mg/L	TCLP Limit mg/L	TTLC Limit mg/Kg
Sample ID	B3-5	B4-1	B5-1	B5-2	B5-3	B5-5	B6-1	B6-2	B6-3	B6-5			
Sample Depth (ft. bogs)	5	1	1	2	3	5	1	2	3	5			
Sample Date	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15	4/17/15			
EPA Method	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B	6010B			
Units	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg			
Arsenic	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5.0	5.0	500

Notes:
ND<X = Constituent(s) not detected at or above method detection limit
STLC = Soluble threshold limit concentration
TCLP = Toxicity characteristic leaching procedure
TTLC = Total threshold limit concentration
mg/L = milligrams per liter
mg/Kg = milligrams per kilogram
ft. bogs = feet below original ground surface

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
0	■							Bulk sample.
		■						Modified split-barrel drive sampler.
		▩						2-inch inner diameter split-barrel drive sampler.
		▨						No recovery with modified split-barrel drive sampler, or 2-inch inner diameter split-barrel drive sampler.
		▥						Sample retained by others.
5		◪						Standard Penetration Test (SPT).
		▨						No recovery with a SPT.
		▥	XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
		▨						No recovery with Shelby tube sampler.
		▥						Continuous Push Sample.
10				⚲				Seepage.
				▽				Groundwater encountered during drilling.
				▼				Groundwater measured after drilling.
						▨	SM	MAJOR MATERIAL TYPE (SOIL): Solid line denotes unit change.
						▨	CL	Dashed line denotes material change.
15						▨		Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Shear Bedding Surface
								The total depth line is a solid line that is drawn at the bottom of the boring.
20								

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BORING LOG

Explanation of Boring Log Symbols

PROJECT NO.	DATE	FIGURE

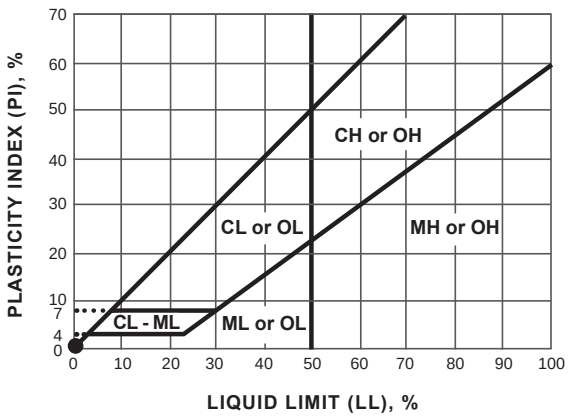
SOIL CLASSIFICATION CHART PER ASTM D 2488

PRIMARY DIVISIONS			SECONDARY DIVISIONS	
			GROUP SYMBOL	GROUP NAME
COARSE-GRAINED SOILS more than 50% retained on No. 200 sieve	**GRAVEL** more than 50% of coarse fraction retained on No. 4 sieve	CLEAN GRAVEL less than 5% fines	GW	well-graded GRAVEL
			GP	poorly graded GRAVEL
		GRAVEL with DUAL CLASSIFICATIONS 5% to 12% fines	GW-GM	well-graded GRAVEL with silt
			GP-GM	poorly graded GRAVEL with silt
			GW-GC	well-graded GRAVEL with clay
			GP-GC	poorly graded GRAVEL with clay
		GRAVEL with FINES more than 12% fines	GM	silty GRAVEL
			GC	clayey GRAVEL
			GC-GM	silty, clayey GRAVEL
	SAND 50% or more of coarse fraction passes No. 4 sieve	CLEAN SAND less than 5% fines	SW	well-graded SAND
			SP	poorly graded SAND
		SAND with DUAL CLASSIFICATIONS 5% to 12% fines	SW-SM	well-graded SAND with silt
			SP-SM	poorly graded SAND with silt
			SW-SC	well-graded SAND with clay
			SP-SC	poorly graded SAND with clay
		SAND with FINES more than 12% fines	SM	silty SAND
			SC	clayey SAND
			SC-SM	silty, clayey SAND
FINE-GRAINED SOILS 50% or more passes No. 200 sieve	**SILT and CLAY** liquid limit less than 50%	INORGANIC	CL	lean CLAY
			ML	SILT
			CL-ML	silty CLAY
		ORGANIC	OL (PI > 4)	organic CLAY
			OL (PI < 4)	organic SILT
	SILT and CLAY liquid limit 50% or more	INORGANIC	CH	fat CLAY
			MH	elastic SILT
		ORGANIC	OH (plots on or above "A"-line)	organic CLAY
			OH (plots below "A"-line)	organic SILT
	Highly Organic Soils		PT	Peat

GRAIN SIZE

DESCRIPTION		SIEVE SIZE	GRAIN SIZE	APPROXIMATE SIZE
Boulders		> 12"	> 12"	Larger than basketball-sized
Cobbles		3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized
	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized
Sand	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized
	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized
	Fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized
Fines		Passing #200	< 0.0029"	Flour-sized and smaller

PLASTICITY CHART



APPARENT DENSITY - COARSE-GRAINED SOIL

APPARENT DENSITY	SPOOLING CABLE OR CATHEAD		AUTOMATIC TRIP HAMMER	
	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5
Loose	5 - 10	9 - 21	4 - 7	6 - 14
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42
Dense	31 - 50	64 - 105	21 - 33	43 - 70
Very Dense	> 50	> 105	> 33	> 70

CONSISTENCY - FINE-GRAINED SOIL

CONSIS-TENCY	SPOOLING CABLE OR CATHEAD		AUTOMATIC TRIP HAMMER	
	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)	SPT (blows/foot)	MODIFIED SPLIT BARREL (blows/foot)
Very Soft	< 2	< 3	< 1	< 2
Soft	2 - 4	3 - 5	1 - 3	2 - 3
Firm	5 - 8	6 - 10	4 - 5	4 - 6
Stiff	9 - 15	11 - 20	6 - 10	7 - 13
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26
Hard	> 30	> 39	> 20	> 26

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USCS METHOD OF SOIL CLASSIFICATION

Explanation of USCS Method of Soil Classification

PROJECT NO.	DATE	FIGURE

DATE DRILLED 4/17/15 BORING NO. B-1/MW2

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY JTK

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Light gray, moist, loose, silty GRAVEL with sand.
		50/3"				SM	Yellow brown, moist, dense, silty SAND; few to little gravel.
		50/4"					GRANITIC ROCK: Grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
		50/3"					
5		50/1"					(Difficult drilling.)
							Total Depth = 7.11 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15.
10							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
15							
20							

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BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-1

DATE DRILLED 4/19/15 BORING NO. B-2

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY JTK

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
		50/1"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
		50/3"					
5		50/1"					No recovery.
		50/2"					(Difficult drilling.)
							Total Depth = 8 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/19/15.
10							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
15							
20							

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-2

DATE DRILLED 4/19/15 BORING NO. B-3

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY JTK

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
		50/5.5"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
		50/2"					
5		50/1"					
		50/2"					
							(Difficult drilling.)
10		50/1"					
							Total Depth = 10.5 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/19/15. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
15							
20							

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-3

DATE DRILLED 4/19/15 BORING NO. B-4

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY JTK

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
			50/1"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK. (Difficult drilling.)
								Total Depth = 2.1 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/19/15.
5								Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
10								
15								
20								

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-4

DATE DRILLED 4/17/15 BORING NO. B-5

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY JTK

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, medium dense, silty GRAVEL with sand.
			4.1	117.8		SM	Light reddish brown, moist, dense, silty medium-grained SAND; little gravel; little clay.
		86/11"					GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained, weathered GRANITIC ROCK.
5		50/3"					
10		50/2"					(Difficult drilling. Grayish brown.
							Total Depth = 11.5 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
15							
20							

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-5

DATE DRILLED 4/17/15 BORING NO. B-6

GROUND ELEVATION 585' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING 8" Diameter Hollow Stem Auger (Ingersol) (A-300)

DRIVE WEIGHT 140 lbs. (Spooling Cable) DROP 30"

SAMPLED BY LLB LOGGED BY LLB REVIEWED BY JTK

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						GM	FILL: Grayish brown, moist, loose, silty GRAVEL with sand.
						SM	Reddish brown, moist, medium dense, silty clayey SAND; little gravel.
		50/6"	10.4	123.2			
5		49					Brown to grayish brown; trace to few gravel.
							GRANITIC ROCK: Yellowish to grayish brown, moist, fine- to medium-grained weathered GRANITIC ROCK.
10		50/5"					(Difficult drilling.)
							Total Depth = 13 feet. (Refusal) Groundwater not encountered during drilling. Backfilled with grout shortly after drilling on 4/17/15.
15							Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
							The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
20							

Ninyo & Moore

BORING LOG

LAS POSAS PROJECT
PALOMAR COLLEGE, SAN MARCOS, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106435019	5/15	A-6

American Environmental Testing Laboratory Inc.
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Ordered By

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-

Telephone: (858)576-1000
Attention: Steven Fry

Number of Pages	**20**
Date Received	**04/20/2015**
Date Reported	**04/28/2015**

Job Number	Order Date	Client
76664	04/20/2015	NINYO2

Project ID: 106435020
Project Name: Los Posas/Palomar
Site: Palomar Community College
1140 W Mission Road
San Marcos, CA 92069

Enclosed please find results of analyses of 20 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 86631

AETL JOB No. 76664

Page 1 of 2

COMPANY: Ninyo & Moore
PROJECT MANAGER: Steve Fry
COMPANY ADDRESS: 5710 Ruffin Rd.
PHONE:
FAX:
PROJECT NAME: 106435020 Las Posas / Palomar
PROJECT #:
SITE NAME AND ADDRESS: Palomar Community College 1140 W. Mission Rd. San Marcos, CA 92069
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: CCRs 8081A	ANALYSIS REQUESTED: Arsenic 6010B	TEST INSTRUCTIONS & COMMENTS
1	B1-1	76664.01	4/17/15	0809	Soil	1 8oz JAR	4°C	X	X	
2	B1-2	76664.02		0816				X	X	
3	B1-3	76664.03		0826				X	X	
4	B6-1	76664.04		0910				X	X	
5	B6-2	76664.05		0915				X	X	
6	B6-3	76664.06		0932				X	X	
7	B6-5	76664.07		0938				X	X	
8	B5-1	76664.08		1048				X	X	
9	B5-2	76664.09		1053				X	X	
10	B5-3	76664.10		1105				X	X	
11	B5-5	76664.11		1110				X	X	
12	B4-1	76664.12		1230				X	X	
13	B3-1	76664.13		1256				X	X	
14	B3-2	76664.14		1305				X	X	
15	B3-3	76664.15	↓	1308	↓	↓	↓	X	X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: GREGORY A COLLINS	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: C. RAMIREZ
Date: 4/20/15 Time: 1100	Date: Time:	Date: 4/20/15 Time: 1620
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature:	Signature:	Signature:
Printed Name: GREGORY A COLLINS	Printed Name:	Printed Name: Susan Laude
Date: 4/20/15 Time: 1100	Date: Time:	Date: 04/20/15 Time: 1620

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

№ 86629

AETL JOB No. 76664

COMPANY: Ninyo & Moore
PROJECT MANAGER: Steve Fry
COMPANY ADDRESS: 5710 Ruffin Rd.
PHONE:
FAX:
PROJECT NAME: Las Posas / Palomar
PROJECT #: 106435020
SITE NAME AND ADDRESS: Palomar Community College, 1140 W. Mission Rd. San Marcos, CA 92069
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	OCPs 8081A	Arsenic 6010B	TEST INSTRUCTIONS & COMMENTS
1	B3-5	76664-16	4/17/15	1328	soil	1 8oz JAR	4°C	X	X	
2	B2-1	76664.17	"	1410	"	"	"	X	X	
3	B2-2	76664.18	"	1415	"	"	"	X	X	
4	B2-3	76664.19	"	1424	"	"	"	X	X	
5	B2-5	76664.20	"	1438	"	"	"	X	X	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY: SAMPLER:	2.	3.
Signature:		
Printed Name: GREGORY A. COLLINS		
Date: 4/20/15 Time: 1100		
RECEIVED BY: 1.	2.	3.
Signature:		
Printed Name: CHRISTIAN PARAMILLO		
Date: 4/20/15 Time: 1100		
RELINQUISHED BY:	2.	3.
Signature:		
Printed Name:		
Date: Time:		
RECEIVED BY:	2.	RECEIVED BY LABORATORY: AETL 3.
Signature:		
Printed Name:		
Date: Time:		Date: 04/20/15 Time: 1620

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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Ordered By

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-

Telephone: (858)576-1000
Attention: Steven Fry

Project ID: 106435020
Date Received 04/20/2015
Date Reported 04/28/2015

Job Number	Order Date	Client
76664	04/20/2015	NINYO2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 20 samples with the following specification on 04/20/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76664.01	B1-1	04/17/2015	Soil	1
76664.02	B1-2	04/17/2015	Soil	1
76664.03	B1-3	04/17/2015	Soil	1
76664.04	B6-1	04/17/2015	Soil	1
76664.05	B6-2	04/17/2015	Soil	1
76664.06	B6-3	04/17/2015	Soil	1
76664.07	B6-5	04/17/2015	Soil	1
76664.08	B5-1	04/17/2015	Soil	1
76664.09	B5-2	04/17/2015	Soil	1
76664.10	B5-3	04/17/2015	Soil	1
76664.11	B5-5	04/17/2015	Soil	1
76664.12	B4-1	04/17/2015	Soil	1
76664.13	B3-1	04/17/2015	Soil	1
76664.14	B3-2	04/17/2015	Soil	1
76664.15	B3-3	04/17/2015	Soil	1
76664.16	B3-5	04/17/2015	Soil	1
76664.17	B2-1	04/17/2015	Soil	1
76664.18	B2-2	04/17/2015	Soil	1
76664.19	B2-3	04/17/2015	Soil	1
76664.20	B2-5	04/17/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010BSCAN) ^ AS	04/27/2015	2	Normal	mg/Kg
(8081A)	04/27/2015	2	Normal	ug/Kg

Continued

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Ordered By

Ninyo & Moore **5710 Ruffin Road** **San Diego, CA 92123-**	**Project ID: 106435020** **Date Received 04/20/2015** **Date Reported 04/28/2015**

Telephone: (858)576-1000
Attention: Steven Fry

Job Number	Order Date	Client
76664	04/20/2015	NINYO2

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-

Telephone: (858)576-1000
Attn: Steven Fry

Site

Palomar Community College
1140 W Mission Road
San Marcos, CA 92069

Page: **2**

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 042115MB2

Our Lab I.D.			Method Blank	76664.01	76664.02	76664.03	76664.04
Client Sample I.D.				B1-1	B1-2	B1-3	B6-1
Date Sampled				04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/21/2015	04/21/2015	04/21/2015	04/21/2015	04/21/2015
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	76664.01	76664.02	76664.03	76664.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		89.4	97.2	103	105	93.2
Tetrachloro-m-xylene	30-150		93.0	95.6	93.0	93.0	101

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ANALYTICAL RESULTS

Ordered By

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5710 Ruffin Road
San Diego, CA 92123-

Telephone: (858)576-1000
Attn: Steven Fry

Site

Palomar Community College
1140 W Mission Road
San Marcos, CA 92069

Page: **4**

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 042115MB2

Our Lab I.D.			76664.05	76664.06	76664.07	76664.08	76664.09
Client Sample I.D.			B6-2	B6-3	B6-5	B5-1	B5-2
Date Sampled			04/17/2015	04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/21/2015	04/21/2015	04/21/2015	04/21/2015	04/21/2015
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			76664.05	76664.06	76664.07	76664.08	76664.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		81.8	91.6	83.6	99.0	79.8
Tetrachloro-m-xylene	30-150		89.2	97.4	91.2	106	93.2

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ANALYTICAL RESULTS

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 042115MB2

Our Lab I.D.			76664.10	76664.11	76664.12	76664.13	76664.14
Client Sample I.D.			B5-3	B5-5	B4-1	B3-1	B3-2
Date Sampled			04/17/2015	04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/21/2015	04/21/2015	04/21/2015	04/21/2015	04/21/2015
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			76664.10	76664.11	76664.12	76664.13	76664.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		88.0	80.6	82.2	99.6	101
Tetrachloro-m-xylene	30-150		98.4	92.4	93.2	94.0	100

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 042115MB2

Our Lab I.D.			76664.15	76664.16	76664.17	76664.18	76664.19
Client Sample I.D.			B3-3	B3-5	B2-1	B2-2	B2-3
Date Sampled			04/17/2015	04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/21/2015	04/21/2015	04/21/2015	04/21/2015	04/21/2015
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/23/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			76664.15	76664.16	76664.17	76664.18	76664.19
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		82.4	89.8	95.0	87.8	84.2
Tetrachloro-m-xylene	30-150		90.6	98.2	97.2	87.8	85.2

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 042115MB2

Our Lab I.D.			76664.20				
Client Sample I.D.			B2-5				
Date Sampled			04/17/2015				
Date Prepared			04/21/2015				
Preparation Method			3550B				
Date Analyzed			04/23/2015				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			**76664.20**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**84.8**				
Tetrachloro-m-xylene	**30-150**		**98.4**				

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C1

Our Lab I.D.			Method Blank	76664.01	76664.02	76664.03	76664.04
Client Sample I.D.				B1-1	B1-2	B1-3	B6-1
Date Sampled				04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/27/2015	04/27/2015	04/27/2015	04/27/2015	04/27/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	2.5	5.0	ND	ND	ND	ND	ND

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C1

Our Lab I.D.			76664.05	76664.06	76664.07	76664.08	76664.09
Client Sample I.D.			B6-2	B6-3	B6-5	B5-1	B5-2
Date Sampled			04/17/2015	04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/27/2015	04/27/2015	04/27/2015	04/27/2015	04/27/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	2.5	5.0	ND	ND	ND	ND	ND

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C1

Our Lab I.D.			76664.10	76664.11	76664.12	76664.13	76664.14
Client Sample I.D.			B5-3	B5-5	B4-1	B3-1	B3-2
Date Sampled			04/17/2015	04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/27/2015	04/27/2015	04/27/2015	04/27/2015	04/27/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	2.5	5.0	ND	ND	ND	ND	ND

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C1

Our Lab I.D.			76664.15				
Client Sample I.D.			B3-3				
Date Sampled			04/17/2015				
Date Prepared			04/22/2015				
Preparation Method			3050B				
Date Analyzed			04/27/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.5	5.0	ND				

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C2

Our Lab I.D.			Method Blank	76664.16	76664.17	76664.18	76664.19
Client Sample I.D.				B3-5	B2-1	B2-2	B2-3
Date Sampled				04/17/2015	04/17/2015	04/17/2015	04/17/2015
Date Prepared			04/22/2015	04/22/2015	04/22/2015	04/22/2015	04/22/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/27/2015	04/27/2015	04/27/2015	04/27/2015	04/27/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	2.5	5.0	ND	ND	ND	ND	ND

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C2

Our Lab I.D.			76664.20				
Client Sample I.D.			B2-5				
Date Sampled			04/17/2015				
Date Prepared			04/22/2015				
Preparation Method			3050B				
Date Analyzed			04/27/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.5	5.0	ND				

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C1; Dup or Spiked Sample: 76664.01; LCS: Clean Sand; QC Prepared: 04/22/2015; QC Analyzed: 04/27/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**0.00**	**50.0**	**36.3 M**	**72.6**	**50.0**	**37.4 M**	**74.7**	**2.85**	**75-125**	**<15**

QC Batch No: 0422152C1; Dup or Spiked Sample: 76664.01; LCS: Clean Sand; QC Prepared: 04/22/2015; QC Analyzed: 04/27/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**50.0**	**46.8**	**93.6**	**50.0**	**46.9**	**93.7**	**<1**	**75-125**	**<15**	

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (6010BSCAN), Arsenic by ICP

QC Batch No: 0422152C2; Dup or Spiked Sample: 76664.16; LCS: Clean Sand; QC Prepared: 04/22/2015; QC Analyzed: 04/27/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**0.00**	**50.0**	**37.9**	**75.8**	**50.0**	**38.6**	**77.2**	**1.83**	**75-125**	**<15**

QC Batch No: 0422152C2; Dup or Spiked Sample: 76664.16; LCS: Clean Sand; QC Prepared: 04/22/2015; QC Analyzed: 04/27/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**50.0**	**48.1**	**96.2**	**50.0**	**48.1**	**96.2**	**<1**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-

Telephone: (858)576-1000
Attn: Steven Fry

Site

Palomar Community College
1140 W Mission Road
San Marcos, CA 92069

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Project ID: 106435020
Project Name: Los Posas/Palomar

AETL Job Number	Submitted	Client
76664	04/20/2015	NINYO2

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 042115MB2; Dup or Spiked Sample: 76660.20; LCS: Clean Sand; QC Prepared: 04/21/2015; QC Analyzed: 04/22/2015; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	19.7	98.5	20.0	19.8	99.0	<1	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	46.6	93.2	50.0	46.4	92.8	<1	40-150	<40
Dieldrin	0.00	50.0	51.0	102	50.0	51.0	102	<1	40-150	<40
Endrin	0.00	50.0	47.9	95.8	50.0	45.4	90.8	5.36	40-150	<40
Heptachlor	0.00	20.0	18.5	92.5	20.0	17.0	85.0	8.45	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	18.8	94.0	20.0	19.1	95.5	1.58	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	46.3	92.6	50.0	43.4	86.8	6.26	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	48.1	96.2	50.0	48.4	96.8	<1	30-150	<40

QC Batch No: 042115MB2; Dup or Spiked Sample: 76660.20; LCS: Clean Sand; QC Prepared: 04/21/2015; QC Analyzed: 04/22/2015; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	18.0	90.0	20.0	18.7	93.5	3.81	50-150	<40	
4,4'-DDT (DDT)	50.0	43.3	86.6	50.0	40.3	80.6	7.18	50-150	<40	
Dieldrin	50.0	48.0	96.0	50.0	48.9	97.8	1.86	50-150	<40	
Endrin	50.0	35.6	71.2	50.0	31.1	62.2	13.5	50-150	<40	
Heptachlor	20.0	17.1	85.5	20.0	16.9	84.5	1.18	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	18.1	90.5	20.0	18.6	93.0	2.72	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	41.1	82.2	50.0	40.6	81.2	1.22	30-150	<40	
Tetrachloro-m-xylene	50.0	43.5	87.0	50.0	44.9	89.8	3.22	30-150	<40	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

APPENDIX D

**PHASE I ENVIRONMENTAL ASSESSMENT
AND LIMITED PHASE II ASSESSMENT
(NINYO & MOORE, 2011B AND 2011C)**

PHASE I
ENVIRONMENTAL SITE ASSESSMENT
NORTH LAS POSAS ROAD AND
WEST MISSION ROAD
SAN MARCOS, CALIFORNIA
APNS: 219-161-17, -18, -19, AND -21

PREPARED FOR:
Palomar Community College
1140 West Mission Road, Suite A-4A
San Marcos, California 92069

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
5710 Ruffin Road
San Diego, California 92123

July 22, 2011
Project No. 106088039

July 22, 2011
Project No. 106088039

Ms. Kelley Hudson-MacIsaac
Palomar Community College
1140 West Mission Road, Suite A-4A
San Marcos, California 92069

Subject: Phase I Environmental Site Assessment
North Las Posas Road and West Mission Road
San Marcos, California
APNs: 219-161-17, -18, -19, and -21

Dear Ms. Hudson-MacIsaac:

In accordance with our proposal P-20308 dated June 7, 2011 and your written authorization to proceed dated June 15, 2011, Ninyo & Moore has performed a Phase I Environmental Site Assessment of the above-referenced site. The attached report presents our findings, opinions, and conclusions with regard to recognized environmental conditions at the site.

We appreciate the opportunity to be of service to you on this project.

Respectfully submitted,
NINYO & MOORE

Lisa Bestard, REA
Senior Project Environmental Scientist

Stephan A. Beck, PG 4375
Manager, Environmental Sciences Division

LB/SB/gg

Distribution: (1) Addressee (via e-mail)

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1. INTRODUCTION

Ninyo & Moore was retained by Palomar Community College (the client) to perform a Phase I Environmental Site Assessment (ESA) of the vacant land located at approximately North Las Posas Road and West Mission Road, in the City of San Marcos and County San Diego, California (hereinafter referred to as the site). Addresses have not been assigned to the four site parcels, which have been assigned Assessor's Parcel Numbers (APNs) 219-161-17, -18, -19, and -21. The following sections discuss the purpose, the involved parties, the scope of work, and the limitations and exceptions associated with the Phase I ESA.

1.1. Purpose

We understand that the Phase I ESA was requested as part of the due diligence for a potential real estate transaction for the subject properties. In accordance with the American Society for Testing and Materials (ASTM) Standards on Environmental Site Assessments for Commercial Real Estate Practice E1527-05, the objective of the ESA is to document, to the extent feasible, recognized environmental conditions (RECs), which are defined by ASTM 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." The term, as further defined by the ASTM, "is not intended to include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies." Conditions determined to be *de minimis* are not RECs.

This Phase I ESA also was conducted to satisfy one of the requirements of 40 Code of Federal Regulations (CFR) §312 titled "Standards and Practices for All Appropriate Inquiries (AAI)," as required under the Comprehensive Environmental Response, Compensation, and Liability Act.

1.2. Scope of Services

Ninyo & Moore's scope of work for this Phase I ESA included the activities listed below.

- Reviewed physical setting and background information (e.g., topographic maps, geologic maps).

- Performed a site reconnaissance to document potential hazardous materials handling, storage, and disposal practices, areas of possibly contaminated surficial soil or surface water, possible sources of polychlorinated biphenyls (PCBs), underground and aboveground storage tanks (USTs and ASTs, respectively), and possible sources of contamination from activities at the site and adjacent properties.

- Reviewed federal, state, tribal, and local regulatory agency databases for the site and for properties located within a specified radius of the site. The databases document locations of known hazardous waste sites, landfills, leaking underground storage tanks, permitted facilities that utilize USTs, and permitted facilities that use, store, or dispose of hazardous materials and wastes.

- Reviewed reasonably ascertainable local regulatory agency files for the site, as applicable.

- Reviewed historical information for the site, such as historical aerial photographs, historical topographic maps, reverse street directories, Sanborn® fire insurance maps, and building department records, as available.

- Interviewed the property owner representative regarding the environmental status of the site.

- Prepared this Phase I ESA report, summarizing findings and providing opinions and conclusions regarding RECs at the site.

1.3. Significant Assumptions

Significant assumptions were not made during the preparation of this report.

1.4. Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. Any exceptions to, or deletions from, are this practice are described in this section and other sections of the report. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo &

Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby properties. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5. Special Terms and Conditions

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, unless otherwise indicated in this report, this Phase I ESA does not include analysis of the following, which is not intended to be all-inclusive listing: asbestos-containing materials, methane gas, radon, lead-based paint, lead-containing surfaces, lead in drinking water, underground pipelines, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality including vapor intrusion, mold, or high voltage power lines.

1.6. User Reliance

This report may be relied upon by, and is intended exclusively for, the client and its assigns. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the above-referenced client is undertaken at said parties' sole risk.

1.7. Involved Parties

Mr. Adrian Olivares, Senior Staff Environmental Scientist, conducted the site reconnaissance on June 17, 2011. Ms. Lisa Bestard performed the interviews on July 1, 8, and 13, 2011 and performed regulatory and historical research. Mr. Stephan Beck, Manager of the Environmental Sciences Division, performed project oversight and quality review.

2. SITE DESCRIPTION

The following sections provide a general description of the site and adjacent properties. Photographs taken during the site reconnaissance are provided in Appendix A.

2.1. Site Location

The site consists of four parcels of land totaling approximately 3.5-acres located in the vicinity of the northeast corner of the intersection of North Las Posas Road and West Mission Road, in the City of San Marcos and County of San Diego, California (Figures 1 and 2). Addresses are not associated with the site parcels; however, the parcels have been assigned APNs 219-161-17, -18, -19, and -21. Legal descriptions for the parcels are provided in the title report and are discussed in Section 3.1.

2.2. Site Vicinity General Characteristics

The site is located within an area generally developed with residential, commercial, and industrial properties with some vacant land. Light-railroad tracks for the North County Transit District (NCTD) Sprinter are adjacent to the south of the site beyond West Mission Road. Palomar Community College is adjacent to the east of the site.

2.3. Current Site Occupants and Property Use

The site is primarily vacant land; however, portions of the site along the southern border of APN 219-161-19 and along the western border of APN 219-161-17 are paved with asphalt and are used for parking of vehicles associated with a gasoline service station at 1290 West Mission Avenue (Figure 2).

2.4. Site Improvements

The following sections provide a description of structures, roads, and other site improvements.

2.4.1. Structures

Structures are not present on the site.

2.4.2. Roads

Roads are not present on the site; however, the site is bordered on the east by Comet Circle and portions of the site are bordered on the west by North Las Posas Road and on the south by West Mission Road.

2.4.3. Heating and Cooling Systems

Heating and cooling systems are not present on the site.

2.4.4. Sewage Disposal

Structures are not present on the site; however, sewage disposal services in the vicinity are provided by the Vallecitos Water District.

2.4.5. Potable Water

Potable water is not provided to the site; however potable water in the site vicinity is provided by the Vallecitos Water District.

2.5. Adjacent Properties

Adjacent properties were observed by Ninyo & Moore personnel on June 17, 2011. The properties adjacent to the site are as follows and as depicted on Figure 3:

- **North:** The Church of Jesus Christ of Latter Day Saints (349 Palm Road) followed by single-family residences.
- **East**: Comet Circle followed by Palomar Community College (1140 West Mission Road).

- **South:** Chevron Gas Station (1290 West Mission Road) and West Mission Road, followed by the NCTD Sprinter light-rail tracks beyond which are an AT&T Facility (255 North Las Posas Road) and vacant land.

- **West:** Chevron Gas Station (1290 West Mission Road) and North Las Posas Road followed by CVS Pharmacy (1302 West Mission Road) and vacant land.

3. USER PROVIDED INFORMATION

The following sections summarize information or documentation provided by the client for the purposes of this assessment. A copy of the user questionnaire completed by Ms. Kelley Hudson-MacIsaac, Manager Environmental Health & Safety/Facilities Planning at Palomar Community College, is provided in Appendix B.

3.1. Title Records

A Preliminary Title Report for APNs 219-161-17, -18, -19, and -21 dated May 20, 2011 was provided to Ninyo & Moore for review. According to title records, the properties are owned by North County Land Partners, L.P., a California limited partnership. The properties are legally described as:

- **APN 219-161-17**: "Parcel A of Parcel Map 16646, in the City of San Marcos, County of San Diego, State of California, filed in the Office of the County Recorder of San Diego County, September 25, 1991.

  Excepting therefrom Parcel A above, one-half of all oil, gas and minerals as reserved by the Vista Irrigation District in deed recorded February 16, 1939 in Book 861, page 414 of Official Records, without, however, the right to enter upon said land to bore wells and make excavation as released in deed recorded October 10, 1983 as Instrument No. 83-362643 of Official Records.

  Also excepting therefrom Parcel A above, one-half of all minerals, carbons, hydrocarbons, oil, gas, chemical elements and compounds, whether in solid, liquid or gaseous form and all steam and other forms of thermal energy, on, in or under the land, with ingress and egress for same, waiving however, all right of surface entry as reserved by Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints, a Utah Corporation sole in deed recorded October 10, 1983 as Instrument No. 83-362644 of Official Records.

Excepting therefrom that portion of said Parcel A, which lies within the boundaries of Depot Grounds in Block 88 according to Map thereof No. 806, filed in the Office of the County Recorder of San Diego County, December 21, 1985, all oil, gas and mineral substances in and under said land, but without the right to go upon said land for the purpose of drilling, digging, or excavating therein or thereon for any of such substances as reserved by the Atchinson, Topeka and Santa Fe Railway company, in deed recorded October 11, 1945 in Book 1961, page 127 of Official Records."

- **APN 219-161-18**: "Parcel B of Parcel Map 16646, in the City of San Marcos, County of San Diego, State of California, filed in the Office of the County Recorder of San Diego County, September 25, 1991.

  Excepting therefrom Parcel B above, one-half of all oil, gas and minerals as reserved by the Vista Irrigation District in deed recorded February 16, 1939 in Book 861, page 414 of Official Records, without, however, the right to enter upon said land to bore wells and make excavation as released in deed recorded October 10, 1983 as Instrument No. 83-362643, of Official Records.

  Excepting therefrom Parcel B above, one-half of all minerals, carbons, hydrocarbons, oil, gas, chemical, elements and compounds, whether in solid, liquid or gaseous form and all steam and other forms of thermal energy on, in or under the land, with ingress and egress for same, waiving however, all right of surface entry as reserved by Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints, a Utah Corporation sole in deed recorded October 10, 1983 as Instrument No. 83-362644 of Official Records."

- **APN 219-161-19**: "Parcel C of Map 16646, in the City of San Marcos, County of San Diego, State of California, filed in the Office of the County Recorder of San Diego County, September 25, 1991.

  Excepting from that portion of said Parcel C, which lies within the boundaries of Depot Grounds in Block 88 according to Map thereof No. 806, filed in the Office of the County Recorder of San Diego County, December 21, 1985, all oil, gas and minerals substances and under said land, but without the right to go upon said land for the purpose of drilling, digging, or excavating therein or thereon for any of such substances as reserved by the Atchinson, Topeka and Santa Fe railway company, in deed recorded October 11, 1945 in Book 1961, page 127 of Official Records.

  Also excepting therefrom one-half of all oil, gas and minerals in said lands as reserved by the Vista Irrigation District in deed recorded February 16, 1939 in Book 861, page 414, of Official Records.

Also excepting therefrom Parcel C above one-half of all minerals carbons, hydrocarbons, oil, gas, chemical elements and compounds, whether in solid, liquid or gaseous form and all steam and other forms of thermal energy, on, in or under the land, with ingress and egress for same, waiving however, all right of surface entry as reserved by Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints, a Utah Corporation sole in deed recorded October 10, 1983 as Instrument No. 83-362644 of Official Records."

- **APN 219-161-21**: "Those portions of Lot 2, in Block 101, of Rancho Los Vallecitos de San Marcos, in the City of San Marcos, County of SD, State of California, according to Map thereof No. 806, filed in the Office of the County Recorder of San Diego County, December 21, 1985 and Arctic Street (now known as Palm Road) lying within Blocks 88 and 101 of said Map No. 806, described as follows:

  Beginning at the most northerly corner of said Block 88 of Map No. 806; thence along the westerly line of said block, south 23°31'43" west, 569.39 feet to the cusp of a 1063.00 foot radius curve concave westerly, a radial to said point bears south, 78°31'47" east; thence leaving said westerly line,

  Northerly along the arc of said curve, through a central angle of 14°43'59" an arc length of 276.43 feet to the beginning of a reverse 20.00 foot radius curve concave southeasterly, a radial to said point bears south 86°34'14" west; thence northerly and easterly along the arc of said 20.00 foot radius curve, through a central angle of 75°00'38", an arc length of 26.18 feet to the beginning of a reverse 228.00 foot radius curve concave northwesterly, a radial to said point bears north 18°25'08" west; thence northerly along the arc of said curve, through a central angle of 48°03'09" an arc length of 191.22 feet to a line parallel with and 12.00 feet northwesterly of said westerly line of block 88; thence along said parallel line north 23°31'43" east, 121.75 feet to the northerly line of Rancho Los Vallecitos de San Marcos, as shown on said Map No. 806; thence along said northerly line, south 41°01'54" east, 13.29 feet to the point of beginning.

  Excepting therefrom that portion of the above described parcel which lies northerly of the northwesterly prolongation of the southerly line of the County Recorder of San Diego County, May 14, 1975 as Instrument No. 75-117161 of Official Records.
  Also excepting therefrom that portion lying within Parcel C of Parcel Map 16646."

Easements for right-of-way ingress and egress and public utilities were noted during the review. Environmental concerns were not noted during the review of title records. A copy of the title report is provided in Appendix B.

3.2. Environmental Liens or Activity and Use Limitations

As the user of this Phase I ESA, Ms. Hudson-MacIsaac stated she had not conducted a search for environmental cleanup liens against the property or activity/use limitations (AULs) at the site; and was not aware of environmental cleanup liens or AULs associated with the site.

Ninyo & Moore ordered an environmental lien search report prepared by Environmental Data Resources (EDR), dated and reviewed on June 16, 2011. According to the lien search report, no environmental liens or activity or use limitations were found for the site properties.

3.3. Specialized Knowledge

Ms. Hudson-MacIsaac stated that she did not have specialized knowledge or experience related to the environmental conditions of the site or nearby properties. However, she was aware that an adjacent property is a gasoline service station.

3.4. Commonly Known or Reasonably Ascertainable Information

Ms. Hudson-MacIsaac was not aware of conditions indicative of releases or threatened releases, such as specific chemicals used, spills or chemical releases, or environmental cleanups that have taken place at the site. However, she did note that the site was located adjacent to a gasoline service station. Ms. Hudson-MacIsaac indicated that there were no obvious indicators that point to the presence or likely presence of contamination at the site.

3.5. Valuation Reduction for Environmental Issues

According to Ms. Hudson-MacIsaac, the purchase price represents fair market value.

3.6. Owner, Property Manager, and Occupant Information

The site is owned by North County Land Partners, LP. The site is currently vacant and there are no associated occupants or property managers. Palomar Community College provided Ninyo & Moore with the name and contact information for North County Land Partners, LP. The interview is described in Section 6.1.

3.7. Reason for Performing Phase I Environmental Site Assessment

Ms. Hudson-MacIsaac stated the reason for performing the Phase I ESA was part of the due diligence prior to purchase of the property.

3.8. Previous Reports for the Site

Ms. Hudson-MacIsaac stated that she was not aware of any previously prepared environmental documentation associated with the site. However, concurrent with the preparation of this Phase I ESA, a limited Phase II ESA of the site parcels was performed by Ninyo & Moore (Ninyo & Moore, 2011). Copies of laboratory analytical figures, tables, and reports are provided in Appendix C.

As part of the assessment, 12 soil vapor probes and six soil borings were advanced at the site on June 21, 2011. The soil vapor probes were installed along the site boundary with the adjacent gasoline station to evaluate potential impacts from an unauthorized release at the facility. The soil vapor samples were collected at depths between three and five feet below ground surface (bgs) and analyzed for volatile organic compounds (VOCs). Benzene was detected in soil vapor samples at the site at a maximum concentration of 0.16 micrograms per liter; however, other VOCs were not detected in the soil vapor samples analyzed. The soil vapor probes in which benzene was detected were primarily located in southeastern portion of the site, which is closest to the USTs and dispenser islands and the area of an unauthorized release of fuel on the adjacent gasoline service station.

Soil samples were colleted at the near surface and at the base of each boring and at 1.5 to 2 feet bgs in borings advanced to depths greater than 2 feet bgs. The soil samples were analyzed for arsenic and organochlorine pesticides (OCPs) to evaluate potential impacts to the site from historical agricultural use. Arsenic was not detected in the soil samples analyzed at a concentration at or above the laboratory reporting limit. The OCP 4,4'-dichlorodiphenyltrichloroethane (DDT) was detected in five soil samples collected from four boring locations at concentrations ranging from 6.0 to 35 micrograms per kilogram; however, other OCPs were not detected in the

soil samples analyzed. In general, DDT was detected at depths of the less than 3 feet bgs; however, DDT was detected up to the total depth explored of 3.5 feet bgs in one boring.

A human health risk assessment was performed for DDT in shallow soil and benzene in soil vapor utilizing the highest detected concentrations for each contaminant under an adult residential scenario. Based on the results of the cumulative risk calculations, the cancer and non-cancer health risks to an adult in a residential scenario were considered less than significant.

The Phase II ESA report stated that since DDT was detected in soil on the site, if shallow soil were to be removed from the site, it may require special handling, reuse restrictions, and/or disposal requirements. However, based on the maximum concentration of DDT detected in the samples collected, it is not likely that the soil would be classified as a California or Federal hazardous waste for OCPs.

4. RECORDS REVIEW

The following sections summarize records reviewed for the site.

4.1. Standard Environmental Record Source - Environmental Database Search

A computerized, environmental information database search was performed by EDR on June 15, 2011. The search included federal, state, tribal, and local databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted properties of potential environmental concern, is presented in the associated EDR report in Appendix D. The review was conducted to evaluate whether the site or properties within the vicinity of the site have been documented as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. The figures in the EDR report indicate approximate locations of properties that may pose environmental concerns.

4.1.1. Geocoded (Mapped) Listings

The site was not listed on any of the databases searched. Off-site properties within one mile of the site appeared on various regulatory agency databases. The following table lists a selection of databases that were searched and the number of listings (excluding non-geocoded [unmapped] properties). See Appendix D for a full listing and description of databases searched and the number of properties listed.

Table 1 – ASTM Standard Environmental Databases

Database Name	Search Radius (mile)	Number of Listings
FEDERAL DATABASES		
NPL (National Priority List)	1	0
Proposed NPL	1	0
NPL LIENS (Federal Superfund Liens)	TP	0
Delisted NPL	1	0
CERCLIS (Comprehensive Environmental Response Compensation and Liability Information System)	0.5	0
FEDERAL FACILITY (Federal Facility Site Information listing)	1	0
CERC-NFRAP (Former CERCLIS sites where no further remedial action is planned under CERCLA)	0.5	3
CORRACTS (facilities subject to Corrective action under RCRA)	1	1
RCRA-TSDF (hazardous waste treatment, storage, or disposal facilities)	0.5	1
RCRA-LQG (large quantity generator)	0.25	2
RCRA-SQG (small quantity generator)	0.25	6
RCRA-CESQG (conditionally exempt SQG)	0.25	0
US ENGINEERING CONTROL (EC)	0.5	0
US INSTITUTIONAL CONTROL (IC)	0.5	0
ERNS (Emergency Notification System)	TP	0
STATE/TRIBAL DATABASES		
RESPONSE (State Response Sites, State- and Tribal- equivalent NPL)	1	0
ENVIROSTOR (The DTSC's Site Mitigation and Brownfields Reuse Program; CERCLIS-equivalent)	1	5
SWF/LF (Solid Waste Information System)	0.5	0
LUST (Geotracker's Leaking Underground Fuel Tank Report)	0.5	9
SLIC (Spills, Leaks, Investigation and Cleanup database by the California Regional Water Quality Control Board)	0.5	7
SAN DIEGO CO. SAM (UST release cases pertaining to properties contaminated with hazardous substances under the review of the Site Assessment and Mitigation Program)	0.5	10

Table 1 – ASTM Standard Environmental Databases

Database Name	Search Radius (mile)	Number of Listings
UST (State registered USTs)	0.25	3
AST (registered ASTs)	0.25	0
Indian UST (Tribal registered USTs)	0.25	0
FEMA UST (FEMA-owend UST Listing)	0.25	0
VCP (State Voluntary Cleanup Program Properties)	0.5	0
Indian VCP (Tribal VCP)		
VCP (Voluntary Cleanup Program Properties)	0.5	0

Notes:
LUST –Leaking Underground Storage Tank
RCRA – Resource Conservation and Recovery Act
TP –Target Property
UST – Underground Storage Tank

Off-site properties/facilities listed in the database report were evaluated as to their potential to impact soil and/or groundwater at the site. The following facilities were interpreted to represent a potential environmental concern to the site, based on their proximity to the site, the nature of the database on which they are listed, and/or the assumed direction of groundwater flow in the site vicinity (toward the south):

- Mobil Oil Corporation/Exxon Mobile Oil Corp./San Marcos Gas, located at 1290 West Mission Road (adjacent to the south and west of the site), was listed on the LUST, RCRA LQG, registered UST, San Diego County Department of Environmental Health (DEH) Site Assessment and Mitigation (SAM) and Hazardous Material Management Division (HMMD) and the California Air Resources Board Emissions Inventory Data (EMI) databases. An open unauthorized release case was opened when a release of fuel was identified during piping upgrade activities in 2003. The listings indicated that a work plan for site assessment was prepared and approved by the DEH; however, the work has not been performed. Four fuel USTs were listed as being present at the property. A file review was requested from the DEH and the results are presented in Section 4.2.3.

- Palomar Community College, 1140 West Mission Road (adjacent to the east of the site), was listed on the RCRA SQG, LUST, San Diego County SAM/HMMD, registered/historical/Statewide Environmental Evaluation and Planning System (SWEEPS), UST, Facility Index System/Registration System (FINDS), National Pollutant Discharge Elimination System, historical Cortese, and HAZNET facility and manifest databases. The facility is associated with two closed gasoline unauthorized release cases that were reported to have impacted only soil. That database listings indicate that four USTs are present at the facility and that the facility utilizes a variety of hazardous materials and generates a variety of hazardous wastes. . A file review was requested from the DEH and the results are presented in Section 4.2.3.

- Pacific Bell, located at 225 North Las Posas Road (adjacent to the southwest of the site and referred to as the AT&T facility), was listed on the RCRA SQG, registered/historical/SWEEPS, UST, San Diego County HMMD, FINDS, and HAZNET databases. The facility is not listed on databases indicative of a release; therefore, there is a low likelihood that the facility has adversely impacted the environmental integrity of the site.

- Pioneer Mills, located at 1329 West Mission Road, was listed on the LUST, San Diego County SAM/HMMD, historical CORTESE, historical UST, SWEEPS UST, and Notify 65 database. The facility is associated with one closed unauthorized release case that was reported to have impacted groundwater. Based on the address information, it was unclear if the facility was adjacent to the site; however, a review of files at the DEH indicated that the facility was located approximately 1/3 mile northwest and crossgradient from the site. Based on this information, there is a low likelihood that the facility has adversely impacted the environmental integrity of the site.

- Vacant Lot, located at 199 Las Posas Road, was listed on the San Diego County SAM and HMMD databases. The SAM listing indicates that an unauthorized release case (H125926-001) was opened for the property and that groundwater was impacted. However, additional information regarding this facility was not available. A file review was requested from the DEH and the results are presented in Section 4.2.3. The owner of the facility is listed as Coca Cola (see next bullet item).

- Coca Cola Enterprises, Las Posas Road and Armorlite, was listed on the SLIC and County of San Diego HMMD. This listing may also be related to the listing above for 199 Las Posas Road. The facility is associated with a closed unauthorized release of chlorinated hydrocarbons that impacted groundwater (H36816-001). A file review was requested from the DEH and the results are presented in Section 4.2.3.

It is our opinion that there is a low likelihood that the listings for remaining off-site properties in the database report represent an REC to the site at the current time. This opinion is based on one or more of the following factors:

- The nature of the database(s) on which the property appears, and/or because the property did not appear on a database that reports unauthorized releases of hazardous substances;

- Reported regulatory agency status (i.e., case closed);

- Reported distance of the property from the site; and/or

- Location of the property in relation to the site with respect to topography or expected groundwater flow direction (generally toward the southwest, based on groundwater monitoring performed at 1001 Armorlite Drive and local topography).

4.1.2. Non-Geocoded (Unmapped) Listings

This portion of the regulatory database report includes properties for which regulatory agencies did not report sufficient address information to be plotted by EDR. The listings were reviewed to evaluate their potential impact to the site, based on their interpreted distance/direction from the site, and/or the nature of the database on which they were listed. It is our opinion that there is a low likelihood that the non-geocoded listings represent an environmental concern to the site at the current time, based on the nature of the listings and/or the interpreted distances of the properties associated with the listings.

4.2. Additional Environmental Record Sources

The following sections describe the regulatory agency records requested and reviewed for the site APNs. Street addresses are not currently associated with the site parcels and the following agencies are not able to search for records by APN; therefore, records were not requested for the site parcels from these agencies:

- San Diego County Air Pollution Control District
- Regional Water Quality Control Board (RWQCB)
- City of San Diego Fire Department
- Industrial Wastewater Control Program

Copies of regulatory request documentation and records are provided in Appendix E.

4.2.1. County of San Diego Department of Environmental Health

Records regarding the site APNs were requested from the DEH. The DEH reported on June 29, 2011 that there are no records for the site parcels.

4.2.2. Online Regulatory Databases

Online regulatory databases were reviewed by Ninyo & Moore to supplement the environmental database search conducted by EDR. The following is a summary of pertinent information.

- Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System website: The site was not listed.
- DTSC EnviroStor website: The site and adjacent properties were not listed.
- DTSC Cortese List website: The site was not listed.
- State Water Resources Control Board (SWRCB) GeoTracker website: The site was not listed. Two adjacent properties and one potentially adjacent property were listed and are discussed in Section 4.2.3.
- DTSC and RWQCB List of Facilities with Deed Restrictions website: The site was not listed.
- California Department of Resources Recycling and Recovery (CalRecycle) Solid Waste Information System website: Three facilities were located within one-mile of the site, but were located hydraulically downgradient.
- California Department of Oil, Gas, and Geothermal Resources website: Wells were not depicted on the site.
- United States Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System Map Viewer: Pipelines were not depicted on or adjacent to the site.

4.2.3. Off-Site Facilities

Records for off-site facilities of potential environmental concern identified in the EDR database report were obtained from the SWRCB GeoTracker website and the County of DEH, to evaluate whether unauthorized releases documented in the database search have adversely impacted the subject site.

- **Mobil Oil Corporation/Exxon Mobile Oil Corp./Sank Marcos Gas (1290 West Mission Road)** The facility is located adjacent to the south and west of the site. An unauthorized release case was opened in 2003 when a release of diesel fuel was identified during piping upgrade activities. Total petroleum hydrocarbons (TPH) as

gasoline and diesel were found in one sample each (i.e., D1 and D5) at concentrations of 125 and 10 milligram per kilogram, respectively. Methyl tertiary butyl ether, toluene, ethylbenzene, and xylenes were detected in the sample collected from beneath dispenser 1 (D1), located on the eastern portion of the property, at a depth of 5.5 feet bgs.

A hand written note to the file, dated April 7, 2003, indicated that, "They did some overexcavation at the hot spot." However, additional information regarding the excavation work was not on file. A work plan to perform additional assessment work in the vicinity of D1 was conditionally approved by the DEH on May 9, 2008. However, a past due notice, dated May 21, 2011 indicated that the proposed work had not yet been completed.

A Phase II ESA was performed for the site concurrent with this assessment to evaluate potential impacts to the site from the gasoline service station. Additional information regarding the Phase II ESA is provided in Section 3.8.

- **Palomar Community College** (1140 West Mission Road). The facility is located adjacent to the east of the site and is associated with two closed gasoline unauthorized release cases. The first release case from 1989 was associated with USTs and piping replaced adjacent to a maintenance facility in the northern portion of the campus. A groundwater monitoring well was installed as part of the assessment and contaminants were not detected in the groundwater samples collected. The DEH issued closure without further action.

  The second release case was discovered in 1993 during the removal of a UST east of Comet Circle, approximately 600 feet northeast of the site. Approximately 350 cubic yards of petroleum impacted soil was removed from the property and disposed of offsite. Although petroleum impacted soil remained in place, the horizontal and vertical extent of the impacted soil was delineated. A groundwater monitoring well was installed as part of the assessment and detectable concentrations of contaminants were not detected during two monitoring events. The DEH issued closure on the case without further action. Based on this information, there is a low likelihood that the facility has adversely impacted the environmental integrity of the site.

- **Vacant Lot** (199 Las Posas Road) is located approximately 0.13-mile south of the site. A review of DEH files for this property indicates that the release at 199 Las Posas Road (H25926) is associated with the release at the Coca Cola property at Las Posas Road and Armorlite Road. Details regarding both release cases are discussed below.

- **Coca Cola Enterprises** (Las Posas Road and Armorlite) is located approximately 0.13-mile south of the site. The facility is associated with a closed unauthorized release of chlorinated hydrocarbons that impacted groundwater (H36816-001). The case closure letter for the release also references release case H25926 at 199 Las Posas Road (see above). The letter states that five monitoring wells were installed at the

property, low levels of chlorinated hydrocarbons were detected, and the groundwater flow direction was to the southwest. Based on the regulatory status of the cases, the direction of groundwater flow, and the distance from the site, there is a low likelihood that the property has adversely impacted the environmental integrity of the site.

4.3. Physical Setting

The following sections include discussions of topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon the referenced document review and/or our visual reconnaissance of the site.

4.3.1. Topography

Based on a review of the United States Geological Survey (USGS), San Marcos, California, 7.5-minute quadrangle map, the site is situated at an elevation of approximately 580 feet above means sea level. A south facing slope is present on the western half of the northern site boundary. In general the topography at the site and vicinity slopes to the south toward San Marcos Creek and San Marcos Lake (USGS, 1996).

4.3.2. Site Geology

Based on a review of the USGS Geologic Map of Oceanside 30 x 60 Quadrangle, the site is underlain by mid-Cretaceous, undivided Tonalite, which is characterized as mostly massive, coarse-grained, light-gray hornblend-biotite tonalite (“granitic” rock) (Kennedy, M.P. and Tan, S.S., 2008).

4.3.3. Surface Waters

Natural surface water bodies, including ponds, streams, or other bodies of water, were not observed on the site during the time of site reconnaissance. The nearest bodies of water are San Marcos Creek and Lake San Marcos, which are located approximately 1 and 1.5 miles south of the site, respectively (USGS, 1996).

4.3.4. Groundwater

According to the RWQCB Water Quality Control Plan for the San Diego Basin, the site is situated within the Richland Hydrologic Subarea (904.52) of the San Marcos Hydrologic Area within the Carlsbad Hydrologic Unit. Groundwater within the Richland Hydrologic Subrea has potential beneficial uses for municipal, agricultural, and industrial service supply (RWQCB, 2007).

According to information obtained from GeoTracker, groundwater levels measured at the nearby industrial facility (located at 1001 Armorlite Drive) ranged from 1 to 12 feet bgs and flowed towards the south (Hargis & Associates, 2011). Note that the industrial facility is at an elevation approximately 20 to 25 feet lower than the site. The groundwater flow direction may vary due to hydrogeologic properties such as soil porosity and permeability, groundwater extraction, and recharge by irrigation and rainfall.

4.4. Site Historical Use Information

Various historical sources, such as reverse city directories, aerial photographs, and historical topographic maps, were reviewed to evaluate historical site usage.

4.4.1. City Directories

Based on our review of the City Directories Abstract prepared by EDR, dated June 17, 2011, no addresses were found associated with the site parcels. The search identified one property of potential environmental concern in the site vicinity. The property adjacent to the south and east of the site at 1290 West Mission Road was listed as “Mobil Oil Corp” in 1994 and “Sanmarcos Mobil” in 2001. The property address was also listed in 2008, but was listed as “Don Harms Inc.”

4.4.2. Sanborn® Fire Insurance Maps

Sanborn® fire insurance maps were requested from EDR; however there is no map coverage in the site vicinity. A copy of the search report is provided in Appendix D.

4.4.3. Historical Aerial Photographs

Historical aerial photographs were provided by EDR for the years 1939 through 2005, photographs from 1938 and 1980 were reviewed on Historic Aerials.com, and a 2010 photograph was reviewed on Google Earth Pro.

Based on review of historical aerial photographs, the site was undeveloped from as early as 1938, until approximately 1939 when the site appeared to be graded and utilized for agricultural purposes until sometime between 1946 and 1953. By 1953 the site appeared to be covered in native vegetation and Comet Circle and buildings and playing fields in the approximate location of the present day Palomar Community College are visible adjacent to the east. Sometime between 1974 and 1980, the site was graded and in the 1980 photograph the northwestern and southeastern corners of the site appeared to be utilized as parking areas with an unpaved road connecting the two areas. The parked cars are no longer visible in the 1989 photograph and the site appears and remains vacant through 2010. However, piles of material/soil/debris in similar locations to the present day piles are visible on site in the 2003, 2005, and 2010 photographs. The 2010 photograph indicates that the southern and eastern portions of the property that border the gasoline station at 1290 West Mission Road have been paved with asphalt and are being utilized as parking associated with the gasoline station.

The residential property and church building adjacent to the north of the site and the buildings associated with the present day AT&T facility adjacent to the southwest of the site were constructed sometime between 1963 and 1974. The gasoline service station adjacent to the site located on the northeast corner of West Mission Road and North Las Posas Road was constructed sometime between 1989 and 1994. By 1994, the parking lots and buildings associated with Palomar Community College, adjacent to the east of the site, generally appear as at present.

4.4.4. Building Department Records

Street addresses are not associated with the site parcels and a representative of the City of San Marcos building department indicated that they are not able to search for records by APN.

4.4.5. Historical Topographic Maps

Historical topographic maps were provided by EDR in a report, dated June 15, 2011, and are provided in Appendix D. Maps from the following years were available: 1901, 1904, 1947, 1949, 1968, 1983, and 1996. The maps show the site vicinity to be generally undeveloped until 1947 when portions of the site vicinity were developed for agricultural use. Railroad tracks are visible adjacent to the south of the site from as early as 1901 when it was labeled as the "Southern California R.R." From 1947 through to 1996 the tracks were labeled "Atchinson, Topeka, and Santa Fe." By 1968 residential structures and Palomar Community College began to be developed in the site vicinity. The site vicinity has been developed with an urban land usage since at least as early as 1996.

4.5. Adjacent Property History

During a review of city directories, the property adjacent to the south and west of the site at 1290 West Mission Road was listed as "Mobil Oil Corp" in 1994 and "Sanmarcos Mobil" in 2001. Other facilities of potential environmental concern were generally not documented during review of historical resources for the site.

5. SITE RECONNAISSANCE

The objective of the site reconnaissance was to obtain information indicating the likelihood of RECs in connection with the site. Mr. Adrian Olivares conducted the reconnaissance on June 17, 2011. The site and vicinity are depicted on Figure 3. Photographic documentation is provided in Appendix A.

5.1. Methodology and Limiting Conditions

The site reconnaissance consisted of walking on the site and along public sidewalks (for viewing of adjacent/nearby properties). Limiting conditions were not encountered during the site reconnaissance.

5.2. General Site Setting

At the time of the site reconnaissance, the majority of the site was undeveloped and covered with vegetation. The portions of the site that border the gasoline service station adjacent to the south and west were paved with asphalt and being utilized as parking for the gasoline station. A south facing slope is present in the western portion of the northern site boundary leading to the driveway associated with the adjacent Church of the Latter Day Saints. Numerous soil/debris piles containing bricks, concrete, and burned wood that appeared to have been dumped on the site were observed primarily in the northern portion of the site (Figure 3).

Three pad-mounted electrical transformers were located on the southeastern corner of the site and one pad-mounted electrical transformer was located along the central eastern border of the site. The transformers appear to service an overhead electrical line that runs along the eastern border of the site.

5.3. Adjacent Property Observations

Adjacent properties were observed from the site and from publicly accessible vantage points (e.g., streets, sidewalks) during the site reconnaissance. The site is located within an area generally developed with commercial, industrial, residential, and school properties. Adjacent properties are depicted on Figure 3 and discussed in detail in Section 2.5.

5.4. Site Observations

Ninyo & Moore evaluated the site for evidence of the following potential environmental concerns:

Table 2 – On-Site Observations

Conditions	Not Observed or Noted	Observed or Noted	Significant Concern?
Hazardous Substances/Petroleum Products	X		
Waste Generation/Storage/Disposal		X	No
ASTs	X		
Potential Evidence of USTs	X		
Potential Polychlorinated Biphenyl-Containing Equipment		X	No
Chemical/Petroleum Odors	X		
Concrete Patches/Pads	X		
Pools of Liquid	X		
Sewage Discharge Pipes	X		
Floor Drains/Sumps	X		
Elevator	X		
Wells	X		
Drums	X		
Unidentified Substance Containers	X		
Stained Soil or Pavement	X		
Stressed Vegetation	X		
Pits, Ponds, or Lagoons	X		
Wastewater Discharges Disposal Systems	X		
Septic Systems/Cesspools	X		
Municipal Solid Waste Disposal Areas	X		

Noted items are discussed below:

- Numerous soil/debris piles containing bricks, concrete, debris, and burned wood were observed primarily in the northern portion of the site (Figure 3). However, it did not appear that the materials had been generated or burned on the site. Since the site is not fenced and is accessible from two major roadways, it is likely the materials were dumped on the site by third parties. Staining and odors were not observed in or around the soil/debris piles. Based on this information and since the stockpiles are relatively small in size, there is a low likelihood that the dumping as significantly impacted the environmental integrity of the site.

- Three pad-mounted electrical transformers were located on the southeastern corner of the site and one pad-mounted electrical transformer was located along the central eastern border of the site. No signs of spills or leaks were observed. Electrical transformers can be a source of polychlorinated biphenyls (PCBs). San Diego Gas and Electric (SDG&E) states that it has not specified PCB-containing transformers for distribution. Based on this information, it is not anticipated that the SDG&E transformers utilize PCB-containing fluids.

6. INTERVIEWS

The following section summarizes interviews conducted with owners, occupants, and site representatives, as available or appropriate. Interview documentation is included in Appendix F.

6.1. Owner Interviews

A questionnaire prepared by Ninyo & Moore regarding current and historical uses of the site was provided to Mr. Mirko Maronne, a representative for the property owner, North County Land Partners LP. The questionnaire was completed by Mr. Maronne and dated July 9, 2011 and a follow up e-mail was received on July 13, 2011. Mr. Maronne indicated that he was not aware of USTs, spills, or releases associated with the property. However, he was aware of the adjacent gasoline service station property at 1290 West Mission Avenue, which is also owned by North County Land Partners LP. Mr. Maronne was also aware of an unauthorized release of fuel on the gas station property, but he did not have any additional information. He also stated that he believed the gas station property may have been utilized as an auto repair facility at one time. When asked about the source of the soil debris piles on the site, Mr. Maronne responded that he was not aware of the soil piles; however, they were not generated by any activities at the site and he believes they are likely a result of illegal dumping by third parties.

Mr. Maronne also stated in the questionnaire that he had knowledge of a metal plating/manufacturing facility located adjacent to the site; however, no additional information was provided. Attempts were made to contact Mr. Maronne for more information on July 11, 13, and 18, but as of the date of this report a response has not been received. However, this type of facility (i.e., metal plating/manufacturing) is typically associated with multiple regulatory agency permits, if this type of facility was present it is likely that documentation of the facility would have been found during the research performed for this ESA (i.e., regulatory agency records search, aerial photographs, city directories, etc). Since documentation of such a facility was not found during the research performed for this ESA, it is our opinion that there is a low likelihood that this type of facility was present on a property adjacent to the site.

6.2. Site Manager Interview

The site is vacant and therefore a site manager was not interviewed.

6.3. Occupant Interviews

The site is vacant and therefore occupants were not interviewed.

6.4. Local Government Officials

Based on the information available for the site from other sources, it is our opinion that interviews with local government officials, beyond the requests for information discussed in Section 4.2., would not provide additional, meaningful information for this Phase I ESA.

7. FINDINGS, OPINIONS, AND CONCLUSIONS

Based upon the results of this Phase I ESA, the following findings, opinions, and conclusions are provided.

7.1. Findings

Based upon the results of this Phase I ESA, the following findings are provided.

- The site consists of four parcels of land totaling approximately 3.5-acres located in the vicinity of the northeast corner of the intersection of North Las Posas Road and West Mission Road, in the City of San Marcos and County of San Diego, California. Addresses are not associated with the site parcels, which have been assigned APNs 219-161-17, -18, -19, and -21. The site is primarily vacant land; however, portions of the site along the southern border of APN 219-161-19 and along the western border of APN 219-161-17 are paved with asphalt and are used for parking of vehicles associated with an adjacent gasoline service station.

- Based on a review of historical sources, the site was undeveloped from as early as 1938, until approximately 1939 when the site appeared to be graded and utilized for agricultural purposes until sometime between 1946 and 1953. By 1953 the site appeared to be covered in native vegetation and Palomar Community College was visible adjacent to the east. Sometime between 1974 and 1980, the site remained unpaved, but appeared to be utilized as a parking area. The site has appeared vacant from 1989 until the present; however, piles of material/soil/debris in similar locations to the present day piles have been present on the site since as early as 2003. Sometime between 2005 and 2010, the southern and eastern portions of the property that border the gasoline station at

1290 West Mission Road were paved with asphalt and are being utilized as parking associated with the gasoline station.

- The site was not listed on the environmental database report or online regulatory databases. However an adjacent gasoline service station at 1290 West Mission Road was reported to have an open unauthorized release case associated with a release of fuel. The regulatory agency files indicated that the removal of some impacted soil took place at the site; however, additional assessment work was requested and had not been performed as of the date of this report. Other off-site properties of potential environmental concern were not noted in the environmental database report or online regulatory databases reviewed.

- A Phase II ESA was performed for the site concurrently with the preparation of this report to evaluate potential impacts to the site from the adjacent gasoline service station and historical agricultural uses. The Phase II ESA found benzene was present in soil vapor and DDT was present in shallow soil at the site; however, a screening-level human health risk assessment was performed that found the cancer and non-cancer health risks to an adult in a residential scenario were considered less than significant. Since the DDT in soil does no present a threat to human health or the environment and is not likely to be the subject of an enforcement action if brought to the attention of the appropriate regulatory agency, this condition is determined to be *de minimus*. However, since DDT was detected in the soil, if shallow soil were to be removed from the site, it may require special handling, reuse restrictions, and/or disposal requirements, but the concentrations of DDT detected in the soil samples collected would not likely classify the soil as a California or Federal hazardous waste for pesticides.

- Numerous soil/debris piles containing bricks, concrete, and burned wood were observed primarily in the northern portion of the site. However, it appears likely the materials were dumped on the site by third parties. Staining and odors were not observed in or around the soil/debris piles. Based on this information and since the stockpiles are relatively small in size, there is a low likelihood that the dumping has significantly impacted the environmental integrity of the site.

7.2. Opinions

The following sections provide an evaluation of RECs and identify data gaps encountered during this assessment.

7.2.1. Evaluation of Recognized Environmental Conditions

This assessment has revealed no evidence of known or suspect RECs in connection with the site.

7.2.2. Data Gaps

ASTM and AAI specify that that the Phase I ESA shall identify and comment on significant data gaps that affect the ability of the environmental professional to identify RECs. According to ASTM Section 12.7, "A data gap by itself is not inherently significant…. A data gap is only significant if other information and/or professional experience raises reasonable concerns involving the data gap." Please note that a detailed listing of all data gaps potentially encountered in the Phase I ESA is not required by ASTM E 1527-05 or the AAI rule, only those that are considered to be potentially significant are discussed herein. This section provides our opinion of the significance of data gaps documented during this assessment.

No significant data gaps that would affect the ability of the environmental professional to identify conditions indicative of releases or threatened releases were encountered during this Phase I ESA. It is our opinion that all appropriate inquiry has been conducted, in accordance with ASTM Standard E1527-05 and 40 CFR §312, into the current/previous environmental condition of the site. However, Ninyo & Moore reserves the right to modify the assessments and conclusions provided herein, upon receipt of additional information.

7.3. Conclusions

We have performed a Phase I Environmental Site Assessment, in conformance with the scope and limitations of the ASTM Practice E 1527, of the properties assigned APNs 219-161-17, -18, -19, and -21, in San Marcos, California, the property. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

7.4. Additional Investigation

Although evidence of RECs in connection with the properties were not revealed during this assessment, it is our opinion that if the soil/debris stockpiles are to remain on the property, the stockpiles be appropriately characterized to evaluate if they contain levels of contami-

nants that may classify the material as a state or Federal hazardous waste, or require special handling, reuse restrictions, and/or disposal requirements.

8. DEVIATIONS

Deletions or deviations from the standard practice of ASTM E1527-05 were not noted during this assessment.

9. ADDITIONAL SERVICES

No additional services were performed as part of this Phase I ESA beyond the scope of the ASTM E 1527-05 standard and AAI (e.g., evaluation of non-scope considerations such as asbestos-containing materials, mold). However, a Phase II ESA was performed concurrent with this assessment and issued under separate cover (Ninyo & Moore, 2011).

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United States Geological Survey, 1996, San Marcos, California: 7.5-minute series (topographic), Scale 1:24,000.

United States Pipeline and Hazardous Materials Safety Administration, 2011, National Pipeline Mapping System Map Viewer, https://www.npms.phmsa.dot.gov: accessed in June.

11. PROFESSIONAL STATEMENT

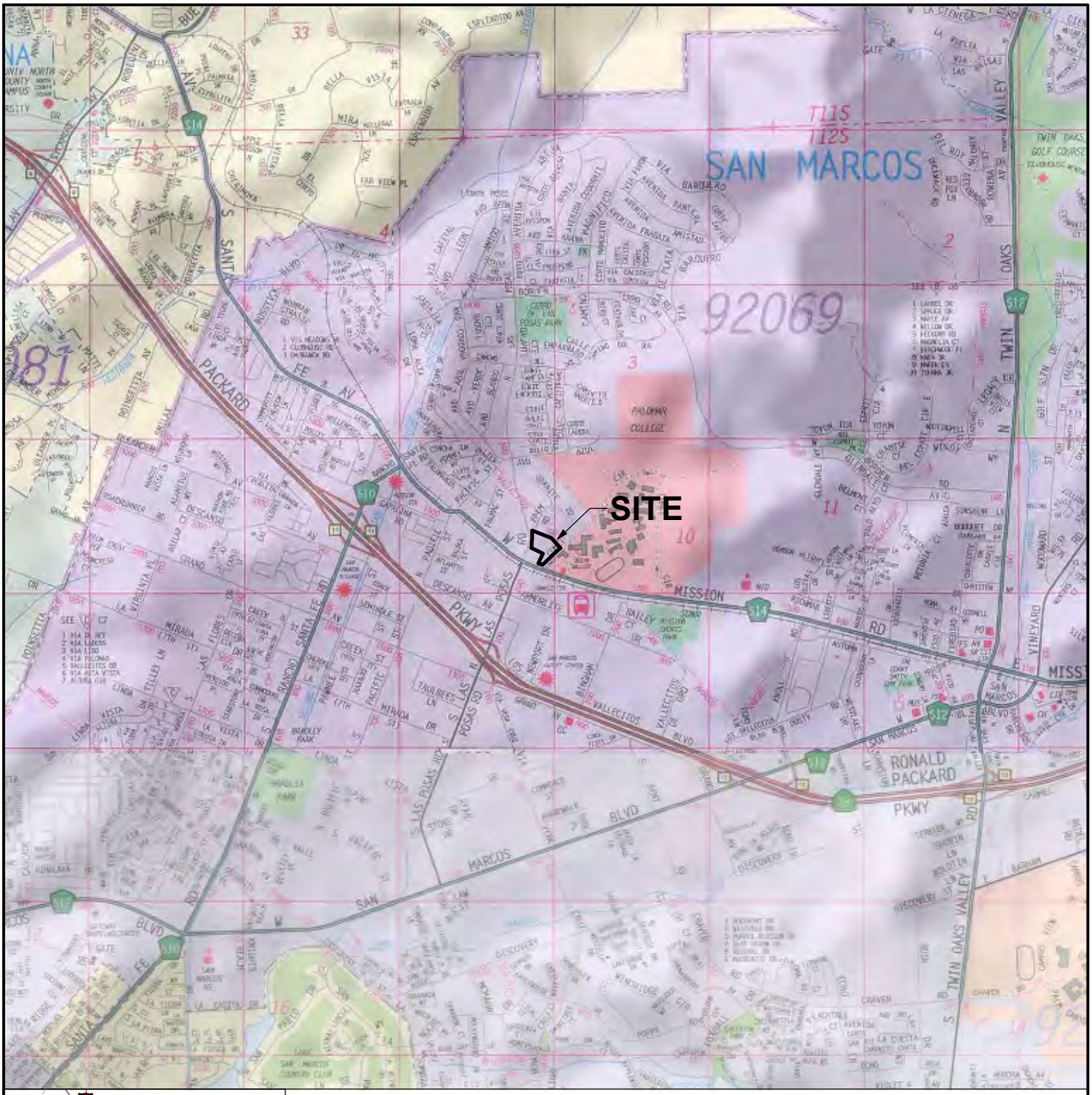
As required by 40 CFR §312.21(d) the following statement is included:

> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined by §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.*

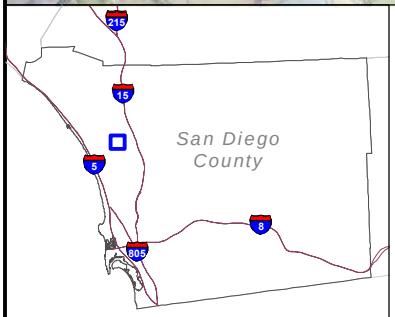
Stephan A. Beck, PG 4375
Manager, Environmental Sciences Division

12. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Resumes, which document the professional qualifications, pursuant to 40 CFR §312.10(b)(2), of the persons that prepared and reviewed this report are provided as Appendix G.



SOURCE: 2008 Thomas Guide for San Diego County, Street Guide and Directory; Map © Rand McNally, R.L.07-S-129



MAP EXTENT

SCALE IN FEET

0 1,200 2,400 4,800

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 106088039 / DATE 7/11	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	1

S:\ArcGIS\Projects\100000_SD\106000-106999\106088_PalomarCC\039\106088039_sl.mxd 7/7/2011 10:02:10 AM JDL

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

LEGEND

PARCEL BOUNDARY

219-161-21-00 PARCEL NUMBER

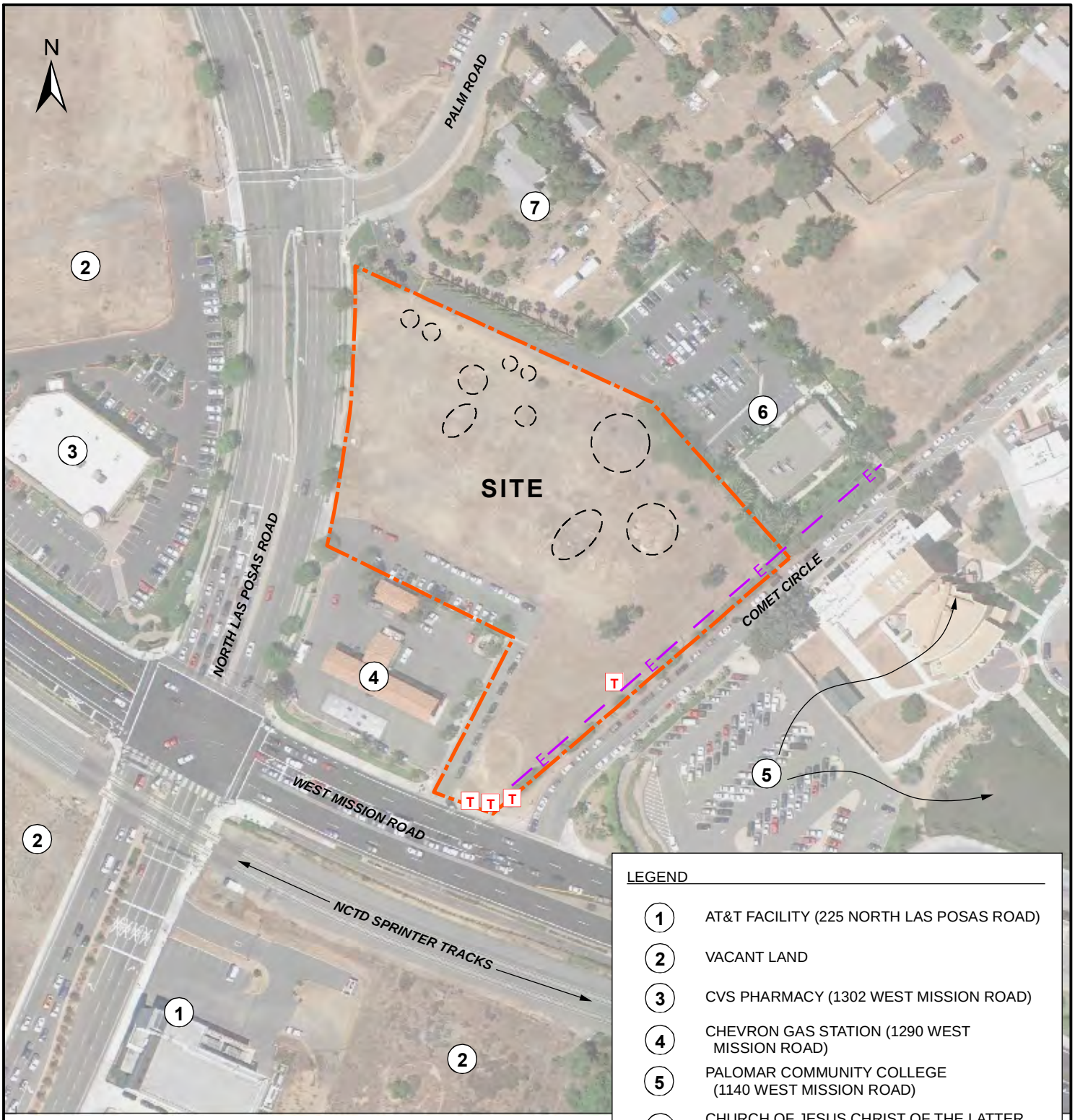
SCALE IN FEET

0 40 80 160

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	PARCEL MAP	FIGURE
PROJECT NO. / DATE	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	2
106088039 / 7/11		

S:\ArcGIS\Projects\100000_SD\106000-106999\106088_PalomarCC\039\106088039_pm.mxd 7/15/2011 10:34:04 AM JDL



SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

SCALE IN FEET

0 75 150 300

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

1 AT&T FACILITY (225 NORTH LAS POSAS ROAD)

2 VACANT LAND

3 CVS PHARMACY (1302 WEST MISSION ROAD)

4 CHEVRON GAS STATION (1290 WEST MISSION ROAD)

5 PALOMAR COMMUNITY COLLEGE (1140 WEST MISSION ROAD)

6 CHURCH OF JESUS CHRIST OF THE LATTER DAY SAINTS (349 PALM ROAD)

7 SINGLE FAMILY RESIDENCE

T TRANSFORMER

SOIL / DEBRIS PILE

E OVERHEAD ELECTRICAL TRANSMISSION LINE

Ninyo & Moore

SITE PLAN

FIGURE 3

PROJECT NO.	DATE
106088039	7/11

NORTH LAS POSAS ROAD AND WEST MISSION ROAD
SAN MARCOS, CALIFORNIA

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APPENDIX A

PHOTOGRAPHIC DOCUMENTATION

Photograph No. 1: **View of the site looking south from the northern boundary.**

Photograph No. 2: **View of the site looking north from West Mission Avenue.**

Photograph No. 3: **View of the slope on the northern site boundary looking east from North Las Posas Road.**

Photograph No. 4: **View of eastern site boundary facing north from West Mission Road. Note the overhead power lines and electrical transformer.**

Photograph No. 5: **View of site looking west from the eastern site boundary. The paved parking area associated with the gas station is visible on the left.**

Photograph No. 6: **View of three electrical transformers on the southeast corner of the site at the intersection of Comet Circle and West Mission Road, facing southeast.**

Photograph No. 7: **View of soil and concrete debris piles on the site, looking southwest.**

Photograph No. 8: **View of burned wood and debris pile on the site.**

Photograph No. 9: **View of the soil stockpiles on the site looking northeast.**

Photograph No. 10: **View of the debris piles and garbage dumped on the site.**

Photograph No. 11: **View of West Mission Road, adjacent to the south, followed by NCTD Sprinter tracks, and an AT&T Facility (225 North Las Posas Road).**

Photograph No. 12: **View of the Chevron Gas Station adjacent to the south and west of the site, looking northwest from West Mission Avenue.**

Photograph No. 13: **View of the Comet Circle, adjacent to the east, followed by Palomar Community College, looking east.**

Photograph No. 14: **View of a drainage channel east of Comet Circle followed by a parking lot at Palomar Community College, looking east.**

Photograph No. 15: **View of the driveway to the church (349 Palm Road) adjacent to the north of the site, looking east from North Las Posas Road.**

Photograph No. 16: **View of site with the church building adjacent to the north of the site (349 Palm Road) visible behind the trees, looking north.**

Photograph No. 17: **View of the intersection of North Las Posas Road and Palm Road, followed by vacant land adjacent to the west of the site.**

Photograph No. 18: **View of North Las Posas Road followed by a CVS Pharmacy (1302 West Mission Road) adjacent to the west of the site.**

APPENDIX B

USER-PROVIDED INFORMATION

PHASE I ESA USER QUESTIONNAIRE

Property Name/Address: **APNs 219-161-17, 219-161-18, 219-161-19, and 219-161-21**
Bounded by North Las Posas Road, West Mission Road, and Comet Circle
San Marcos, California

Please respond to **all** of the following questions to the best of your knowledge. The purpose of this questionnaire is to assist the user (the client or party seeking to use the Phase I ESA) and the environmental professional in gathering information from the user that may be material to documenting Recognized Environmental Conditions (RECs) at the site. Please note that the user of the Phase I ESA (the client), if seeking protection from CERCLA liability, must adhere to a set of user responsibilities as defined by the American Society for Testing and Materials (ASTM) Standard Practice E1527-05 and the United States Environmental Protection Agency (EPA) 40 Code of Federal Regulations Part 312 titled "Standards and Practices for all Appropriate Inquiries (AAI)". **Failure to provide this information could result in a determination that AAI is not complete.**

Per Section 6 of ASTM Standard E1527-05 and 40 CFR Part 312 of the AAI rule, the user's responsibilities include, but are not limited to, the following:

- review reasonably ascertainable land title records, lien records, and/or judicial records to search for environmental cleanup liens or activity and use limitations (AULs) against the site filed or recorded under federal, tribal, state, or local law, or engage a title company to review such records. Evidence of environmental liens and/or activity and use limitations on the site, if discovered, must be provided to the environmental consultant;
- report to the environmental professional specialized knowledge or experience material to RECs in connection with the property;
- report to the environmental professional knowledge of environmental liens or AULs encumbering or in connection with the property;
- consider the relationship of the purchase price of the property to its fair market value and whether a lower purchase price is related to potential contamination;
- report to the environmental professional commonly known or reasonably ascertainable information material to RECs; and
- report to the environmental professional the reason for conducting the Phase I ESA.

User responsibilities, CERCLA liability relief, and AAI components are discussed in the AAI rule and in the ASTM E1527-05 standard.

1) **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**

1a. Have you conducted a search for environmental cleanup liens that are filed or recorded under federal, tribal, state or local law?
Yes X No

1b. Are you aware of any environmental cleanup liens against the site that are filed or recorded under federal, tribal, state or local law?
Yes X No If yes, please describe:

2) **Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry.**

2a. Have you conducted a search for the existence of AULs, such as engineering controls, land use restrictions or institutional controls, that have been filed or recorded in a registry under federal, tribal, state or local law?
Yes X No

2b. Are you aware of any AULs that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?
Yes X No If yes, please describe:

3) **Specialized knowledge or experience of the person seeking to qualify for the liability protections (40 CFR 312.28).**
As the user of this Phase I ESA do you have any specialized knowledge or experience related to the site or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
Yes X No If yes, please describe:

4) **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).**
Does the purchase price being paid for these properties reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the properties?
X Yes No Not applicable (No Property Purchase Involved) If yes, please describe:

5) **Commonly known or reasonably ascertainable information about the properties (40 CFA 312.30).**
Are you aware of commonly known or reasonably ascertainable information about the properties that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as the user,

a) Do you know the past uses of the properties?
X Yes No If yes, please describe: empty lot located next to gas station

b) Do you know of specific chemicals that are present or once were present at the properties?
Yes X No If yes, please describe:

c) Do you know of spills or other chemical releases that have taken place at the properties?
Yes X No If yes, please describe:

d) Do you know of any environmental cleanups that have taken place at the properties?
Yes X No If yes, please describe:

6) **The degree of obviousness of the presence of likely presence of contamination at the properties, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**
As the user of this ESA, based on your knowledge and experience related to the properties are there any obvious indicators that point to the presence or likely presence of contamination at the properties?
Yes X No If yes, please describe: No obvious, but it is next to gas station.

7) **What is the reason for having the Phase I ESA performed (ASTM 1527-05, Section 6.7)?**
Land purchase

8) **Are you aware of any previously prepared documentation for the site, such as:**

- previous Phase I ESA or Phase II ESA reports
- environmental sampling, compliance audit, or assessment reports
- environmental permits
- registrations for aboveground or underground storage tanks
- registrations for underground injections systems
- material safety data sheets (MSDS)
- community right-to-know plans,
- safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans
- geotechnical or hydrogeologic reports
- storm water documents
- risk assessments
- hazardous waste generator notices

Yes X No If yes, please describe:

Completed By:

Kelley Hudson MacIsaac 7/1/11
Signature Date

Kelley Hudson MacIsaac Interim Director, Facilities
Printed Name Title

***When complete, return questionnaire via email, fax, and/or mail to the following:**

Ms. Lisa Bestard
Senior Project Environmental Scientist
Ninyo and Moore
5710 Ruffin Road
San Diego, California 92123
lbestard@ninyoandmoore.com
(858) 576-1000 Office
(858) 576-9600 FAX

USER QUESTIONNAIRE

TITLE RECORDS

Chicago Title Company

Builders Services Division
2365 Northside Drive, Suite 500, San Diego, CA 92108 (619) 521-3400

Title Department:

Chicago Title Company
Attn: Tom Votel/Ken Cyr
Email: votelt@ctt.com & ken.cyr@ctt.com
Phone: (619) 521-3553 & (619) 521-3555
Fax: (619) 521-3608
Order No.: 930022511-U50

Customer:

Cushman & Wakefield
Attn: Steve R. Rosetta
Email: steve.rosetta@cushwake.com
Phone: (858) 558-5622
Reference No.: Pacifica

PRELIMINARY REPORT

Property Address: APNS: 219-161-17, 18, 19, 21

Dated as of: May 20, 2011 at 7:30 am

In response to the application for a policy of title insurance referenced herein, Chicago Title Company hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a policy or policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception herein or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations or Conditions of said Policy forms.

The printed Exceptions and Exclusion from the coverage and Limitations on Covered Risks of said Policy or Policies are set forth in Attachment One. The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than that set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. Limitations on Covered Risks applicable to the CLTA and ALTA Homeowner's Policies of Title Insurance which establish a Deductible Amount and a Maximum Dollar Limit of Liability for certain coverages are also set forth in Attachment One. Copies of the policy forms should be read. They are available from the office which issued this report.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

The policy(s) of title insurance to be issued hereunder will be policy(s) of Chicago Title Insurance Company

Please read the exceptions shown or referred to herein and the exceptions and exclusions set forth in Attachment One of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

CALIFORNIA LAND TITLE ASSOCIATION STANDARD COVERAGE POLICY

SCHEDULE A

1. The estate or interest in the land hereinafter described or referred to covered by this report is:

   A fee

2. Title to said estate or interest at the date hereof is vested in:

   North County Land Partners, L.P., a California limited partnership

3. The land referred to in this report is situated in the State of California, County of San Diego and is described in the Legal Description, attached hereto:

END OF SCHEDULE A

LEGAL DESCRIPTION

PARCEL 1: APN 219-161-17

PARCEL A OF PARCEL MAP 16646, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 25, 1991.

EXCEPTING THEREFROM PARCEL A ABOVE, ONE-HALF OF ALL OIL, GAS AND MINERALS AS RESERVED BY THE VISTA IRRIGATION DISTRICT IN DEED RECORDED FEBRUARY 16, 1939 IN BOOK 861, PAGE 414 OF OFFICIAL RECORDS, WITHOUT, HOWEVER, THE RIGHT TO ENTER UPON SAID LAND TO BORE WELLS AND MAKE EXCAVATION AS RELEASED IN DEED RECORDED OCTOBER 10, 1983 AS INSTRUMENT NO. 83-362643 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM PARCEL A ABOVE, ONE-HALF OF ALL MINERALS, CARBONS, HYDROCARBONS, OIL, GAS, CHEMICAL ELEMENTS AND COMPOUNDS, WHETHER IN SOLID, LIQUID OR GASEOUS FORM AND ALL STEAM AND OTHER FORMS OF THERMAL ENERGY, ON, IN OR UNDER THE LAND, WITH INGRESS AND EGRESS FOR SAME, WAIVING HOWEVER, ALL RIGHT OF SURFACE ENTRY AS RESERVED BY CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE IN DEED RECORDED OCTOBER 10, 1983 AS INSTRUMENT NO. 83-362644 OF OFFICIAL RECORDS.

EXCEPTING THEREFROM THAT PORTION OF SAID PARCEL A, WHICH LIES WITHIN THE BOUNDARIES OF DEPOT GROUNDS IN BLOCK 88 ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1985, ALL OIL, GAS AND MINERAL SUBSTANCES IN AND UNDER SAID LAND, BUT WITHOUT THE RIGHT TO GO UPON SAID LAND FOR THE PURPOSE OF DRILLING, DIGGING, OR EXCAVATING THEREIN OR THEREON FOR ANY OF SUCH SUBSTANCES AS RESERVED BY THE ATCHINSON, TOPEKA AND SANTA FE RAILWAY COMPANY, IN DEED RECORDED OCTOBER 11, 1945 IN BOOK 1961, PAGE 127 OF OFFICIAL RECORDS.

PARCEL 2: APN 219-161-18

PARCEL B OF PARCEL MAP 16646, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 25, 1991.

EXCEPTING THEREFROM PARCEL B ABOVE, ONE-HALF OF ALL OIL, GAS AND MINERALS AS RESERVED BY THE VISTA IRRIGATION DISTRICT IN DEED RECORDED FEBRUARY 16, 1939 IN BOOK 861, PAGE 414 OF OFFICIAL RECORDS, WITHOUT, HOWEVER, THE RIGHT TO ENTER UPON SAID LAND TO BORE WELLS AND MAKE EXCAVATION AS RELEASED IN DEED RECORDED OCTOBER 10, 1983 AS INSTRUMENT NO. 83-362643, OF OFFICIAL RECORDS.

EXCEPTING THEREFROM PARCEL B ABOVE, ONE-HALF OF ALL MINERALS, CARBONS, HYDROCARBONS, OIL, GAS, CHEMICAL, ELEMENTS AND COMPOUNDS, WHETHER IN SOLID, LIQUID OR GASEOUS FORM AND ALL STEAM AND OTHER FORMS OF THERMAL ENERGY ON, IN OR UNDER THE LAND, WITH INGRESS AND EGRESS FOR SAME, WAIVING HOWEVER, ALL RIGHT OF SURFACE ENTRY AS RESERVED BY CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH

LEGAL DESCRIPTION
(continued)

CORPORATION SOLE IN DEED RECORDED OCTOBER 10, 1983 AS INSTRUMENT NO. 83-362644 OF OFFICIAL RECORDS.

PARCEL 3: APN 219-161-19

PARCEL C OF MAP 16646, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 25, 1991.

EXCEPTING FROM THAT PORTION OF SAID PARCEL C, WHICH LIES WITHIN THE BOUNDARIES OF DEPOT GROUNDS IN BLOCK 88 ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1985, ALL OIL, GAS AND MINERALS SUBSTANCES AND UNDER SAID LAND, BUT WITHOUT THE RIGHT TO GO UPON SAID LAND FOR THE PURPOSE OF DRILLING, DIGGING, OR EXCAVATING THEREIN OR THEREON FOR ANY OF SUCH SUBSTANCES AS RESERVED BY THE ATCHINSON, TOPEKA AND SANTA FE RAILWAY COMPANY, IN DEED RECORDED OCTOBER 11, 1945 IN BOOK 1961, PAGE 127 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM ONE-HALF OF ALL OIL, GAS AND MINERALS IN SAID LANDS AS RESERVED BY THE VISTA IRRIGATION DISTRICT IN DEED RECORDED FEBRUARY 16, 1939 IN BOOK 861, PAGE 414, OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM PARCEL C ABOVE ONE-HALF OF ALL MINERALS CARBONS, HYDROCARBONS, OIL, GAS, CHEMICAL ELEMENTS AND COMPOUNDS, WHETHER IN SOLID, LIQUID OR GASEOUS FORM AND ALL STEAM AND OTHER FORMS OF THERMAL ENERGY, ON, IN OR UNDER THE LAND, WITH INGRESS AND EGRESS FOR SAME, WAIVING HOWEVER, ALL RIGHT OF SURFACE ENTRY AS RESERVED BY CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH, OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE IN DEED RECORDED OCTOBER 10, 1983 AS INSTRUMENT NO. 83-362644 OF OFFICIAL RECORDS.

PARCEL 4: APN 219-161-21

THOSE PORTIONS OF LOT 2, IN BLOCK 101, OF RANCHO LOS VALLECITOS DE SAN MARCOS, IN THE CITY OF SAN MARCOS, COUNTY OF SD, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1985 AND ARCTIC STREET (NOW KNOWN AS PALM ROAD) LYING WITHIN BLOCKS 88 AND 101 OF SAID MAP NO. 806, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST NORTHERLY CORNER OF SAID BLOCK 88 OF MAP NO. 806; THENCE ALONG THE WESTERLY LINE OF SAID BLOCK, SOUTH 23°31’43” WEST, 569.39 FEET TO THE CUSP OF A 1063.00 FOOT RADIUS CURVE CONCAVE WESTERLY, A RADIAL TO SAID POINT BEARS SOUTH, 78°31’47” EAST; THENCE LEAVING SAID WESTERLY LINE, NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 14°43’59” AN ARC LENGTH OF 276.43 FEET TO THE BEGINNING OF A REVERSE 20.00 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY, A RADIAL TO SAID POINT BEARS SOUTH 86°34’14” WEST; THENCE NORTHERLY AND EASTERLY ALONG THE ARC OF SAID 20.00 FOOT RADIUS CURVE, THROUGH A CENTRAL ANGLE OF 75°00’38”, AN ARC LENGTH OF 26.18 FEET TO THE BEGINNING OF A REVERSE 228.00 FOOT RADIUS CURVE CONCAVE

LEGAL DESCRIPTION
(continued)

NORTHWESTERLY, A RADIAL TO SAID POINT BEARS NORTH 18°25'08" WEST; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGLE OF 48°03'09" AN ARC LENGTH OF 191.22 FEET TO A LINE PARALLEL WITH AND 12.00 FEET NORTHWESTERLY OF SAID WESTERLY LINE OF BLOCK 88; THENCE ALONG SAID PARALLEL LINE NORTH 23°31'43" EAST, 121.75 FEET TO THE NORTHERLY LINE OF RANCHO LOS VALLECITOS DE SAN MARCOS, AS SHOWN ON SAID MAP NO. 806; THENCE ALONG SAID NORTHERLY LINE, SOUTH 41°01'54" EAST, 13.29 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION OF THE ABOVE DESCRIBED PARCEL WHICH LIES NORTHERLY OF THE NORTHWESTERLY PROLONGATION OF THE SOUTHERLY LINE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, MAY 14, 1975 AS INSTRUMENT NO. 75-117161 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THAT PORTION LYING WITHIN PARCEL C OF PARCEL MAP 16646.

END OF LEGAL DESCRIPTION

SCHEDULE B

At the date hereof, items to be considered and exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. Property taxes, including any assessments collected with taxes, for the fiscal year 2011 - 2012 that are a lien not yet due.

2. The lien of supplemental or escaped assessments of property taxes, if any, made pursuant to the provisions of Part 0.5, Chapter 3.5 or Part 2, Chapter 3, Articles 3 and 4 respectively (commencing with Section 75) of the Revenue and Taxation Code of the State of California as a result of the transfer of title to the vestee named in Schedule A; or as a result of changes in ownership or new construction occurring prior to date of policy.

3. An easement for the purpose shown below and rights incidental thereto as set forth in a document.

Granted To:	San Diego Gas and Electric Company
Purpose:	public utilities, ingress, egress
Recorded:	August 15, 1951 in Book 4205, page 31 of Official Records
Affects:	The route thereof affects a portion of said land and is more fully described in said document.

4. The privilege and right to extend drainage structures and excavation and embankment slopes beyond the limits of the right of way, where required for the construction and maintenance of said road, as contained in the deed recorded December 29, 1967 as Instrument No. 205789 of Official Records.

5. The terms and provisions contained in the document entitled "**Declaration of Covenants for Public Improvements**" recorded April 24, 1975 as Instrument No. 75-096007 of Official Records.

6. The terms and provisions contained in the document entitled "**Declaration of Covenants for Public Improvements**" recorded June 18, 1976 as Instrument No. 76-189728 of Official Records.

7. The fact that said land is included within a project area of the Redevelopment Agency shown below, and that proceedings for the redevelopment of said project have been instituted under the Redevelopment Law (such redevelopment to proceed only after the adoption of the Redevelopment Plan) as disclosed by a document.

Redevelopment Agency:	San Marcos Redevelopment Project Area No. 1
Recorded:	June 13, 1983 as Instrument No. 83-239024 of Official Records

8. An easement for the purpose shown below and rights incidental thereto as set forth in a document.

Granted To:	City of San Marcos
Purpose:	public street and slope purposes
Recorded:	October 7, 1988 as Instrument No. 88-511897 of Official Records
Affects:	The route thereof affects a portion of said land and is more fully described in said document.

SCHEDULE B
(continued)

9. An Agreement, and the terms and conditions as contained therein

Recorded:	June 26, 1991 as Instrument No. 1991-0310080 of Official Records
Regarding:	Hold Harmless Agreement Drainage

Reference is hereby made to said document for full particulars.

10. An easement for the purpose shown below and rights incidental thereto as set forth in a document.

Granted To:	San Diego Gas and Electric Company
Purpose:	public utilities, ingress, egress
Recorded:	July 1, 1991 as Instrument No. 1991-0321626 of Official Records
Affects:	The route thereof affects a portion of said land and is more fully described in said document.

11. The fact that the ownership of said land does not include rights of access to or from the street, highway, or freeway abutting said land, such rights having been relinquished by the Map of said Tract.

Affects:	As shown on Parcel Map 16646

Said land, however, abuts upon a public thoroughfare other than the road referred to above, over which rights of vehicular ingress and egress have not been relinquished.

12. An easement for the purpose shown below and rights incidental thereto as shown or as offered for dedication on the recorded Map shown below.

Map No.:	Parcel Map 16646
Easement	
Purpose:	proposed reciprocal access and public/private utility
Affects:	as shown on said map

13. Covenants, conditions and restrictions ("but omitting, except to the extent that said covenant or restriction is controlled or permitted by any applicable federal or state law, any covenants or restrictions, if any, based upon race, color, religion, sex, sexual orientation, familial status, marital status, disability, medical condition, national origin, source of income, or ancestry" as set forth in the document

Recorded:	December 6, 1991 as Instrument No. 1991-0631180 of Official Records

Note: Section 12956.1 of the government code provides the following: "If this document contains any restriction based on race, color, religion, sex, sexual orientation, familial status, marital status, disability, national origin, source of income as defined in subdivision (p) of Section 12955, or ancestry, that restriction violates state and federal fair housing laws and is void, and may be removed pursuant to section 12956.2 of the Government Code. Lawful restrictions under state and

SCHEDULE B
(continued)

federal law on the age of occupants in senior housing or housing for older persons shall not be construed as restrictions based on familial status."

Note: If you should request a copy of the document referred to above, California Law requires that a county recorder, title insurance company, escrow company, real Estate broker, real Estate agent, or association that provides a copy of a declaration, governing document, or deed to any person shall place a cover Page over, or stamp on the first Page of the previously recorded document or documents a statement, in at least 14-point boldface type, relating to unlawful restrictions.

Said covenants, conditions and restrictions provide that a violation thereof shall not defeat the lien of any mortgage or Deed of Trust made in good faith and for value.

14. A Deed of Trust to secure an indebtedness in the original amount shown below.

Amount:	$2,000,000.00
Dated:	July 17, 2009
Trustor:	North County Land Partners L.P., a California limited partnership
Trustee:	Chicago Title Company, a California corporation
Beneficiary:	Himark Capital LLC, a Delaware limited liability company
Recorded:	July 30, 2009 as File No. 2009-0424289, Official Records
Affects:	The herein described land and other land.

15. Matters which may be disclosed by an inspection and/or by a correct ALTA/ACSM Land Title Survey of said land that is satisfactory to this Company, and/or by inquiry of the parties in possession thereof.

This office must be notified at least 7 business days prior to the scheduled closing in order to arrange for an inspection of the land; upon completion of this inspection you will be notified of the removal of specific coverage exceptions and/or additional exceptions to coverage.

16. Any rights of parties in possession of said land, based on any unrecorded lease, or leases.

This Company will require a full copy of any unrecorded lease, together with all supplements, assignments, and amendments for review.

END OF SCHEDULE B

INFORMATIONAL NOTES

Note No. 1: The policy of title insurance will include an arbitration provision. The Company or the insured may demand arbitration. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. Please ask your escrow or title officer for a sample copy of the policy to be issued if you wish to review the arbitration provisions and any other provisions pertaining to your Title Insurance coverage.

Note No. 2: The policy to be issued may contain an arbitration clause. When the Amount of Insurance is less than the amount, if any, set forth in the arbitration clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties.

Note No. 3: The requirement that a copy of the partnership agreement of the North County Land Partners, L.P., a California limited partnership be furnished to this Company, together with all supplements, amendments, etc., thereto.

Note No. 4: Property taxes, for the fiscal year 2010 - 2011 are paid. For information purposes the amounts are:

1st Installment:	$3,484.72 Paid
2nd Installment:	$3,484.72 Paid
Exemption:	$none
Code Area:	13115

Assessors Parcel Number: 219-161-17

Property taxes, for the fiscal year 2010 - 2011 are paid. For information purposes the amounts are:

1st Installment:	$3,773.44 Paid
2nd Installment:	$3,773.44 Paid
Exemption:	$none
Code Area:	13115

Assessors Parcel Number: 219-161-18

Property taxes, for the fiscal year 2010 - 2011 are paid. For information purposes the amounts are:

1st Installment:	$4,415.27 Paid
2nd Installment:	$4,415.27 Paid
Exemption:	$none
Code Area:	13115

Assessors Parcel Number: 219-161-19

INFORMATIONAL NOTES
(continued)

Property taxes, for the fiscal year 2010 - 2011 are paid. For information purposes the amounts are:

1st Installment:	$141.33 Paid
2nd Installment:	$141.33 Paid
Exemption:	$none
Code Area:	13115
Assessors Parcel Number:	219-161-21

ATTACHMENT ONE

PRIVACY STATEMENT

IMPORTANT INFORMATION:

For those of you receiving this report by electronic delivery the Privacy Statement and Exclusions From Coverage are linked to this report. Please review this information by selecting the link. For those of you who are receiving a hard copy of this report, a copy of this information has been submitted for your review.

CHICAGO TITLE INSURANCE COMPANY

Fidelity National Financial Group of Companies' Privacy Statement

July 1, 2001

We recognize and respect the privacy of today's consumers and the requirements of applicable federal and state privacy laws. We believe that making you aware of how we use your non-public personal information ("Personal Information"), and to whom it is disclosed, will form the basis for a relationship of trust between us and the public that we serve. This Privacy Statement provides that explanation. We reserve the right to change this Privacy Statement from time to time consistent with applicable privacy laws.

In the course of our business, we may collect Personal Information about you from the following sources:

- From applications or other forms we receive from you or your authorized representative;
- From your transactions with, or from the services being performed by, us, our affiliates or others;
- From our Internet web sites;
- From the public records maintained by government entities that we wither obtain directly from those entities, or from our affiliates or others; and
- From consumer or other reporting agencies

Our Policies Regarding The Protection Of The Confidentiality And Security Of Your Personal Information

We maintain physical, electronic and procedural safeguards to protect your Personal Information from unauthorized access or intrusion. We limit access to the Personal Information only to those employees who need such access in connection with providing products or services to you or for other legitimate business purposes.

Our Policies and Practices Regarding the Sharing of Your Personal Information

We may share your Personal Information with our affiliates, such as insurance companies, agents, and other real estate settlement service providers. We may also disclose your Personal Information:

- to agents, brokers or representatives to provide you with services you have requested;
- to third-party contractors or service providers who provide services or perform marketing or other functions on our behalf; and
- to others with whom we enter into joint marketing agreements for products or services that we believe you may find of interest.

In addition, we will disclose your Personal Information when your direct or give us permission, when we are required by law to do so, or when we suspect fraudulent or criminal activities. We also may disclose your Personal Information when otherwise permitted by applicable privacy laws such as, for example, when disclosure is needed to enforce our rights arising out of any agreement, transaction or relationship with you.

One of the important responsibilities of some of our affiliated companies is to record documents in the public domain. Such documents may contain your Personal Information.

Right To Access Your Personal Information And Ability To Correct Errors Or Request Change Or Deletion

Certain states afford you the right to access your Personal Information and, under certain circumstances, to find out to whom your Personal Information has been disclosed. Also, certain states afford you the right to request correction, amendment or deletion of your Personal Information. We reserve the right, where permitted by law, to charge a reasonable fee to cover the costs incurred in responding to such requests.

All requests must be made in writing to the following address:

Privacy Compliance Officer
Fidelity National Financial, Inc.
601 Riverside Drive
Jacksonville, FL 32204

Multiple Products or Services:

If we provide you with more than one financial product or service, you may receive more that one privacy notice from us. We apologize for any inconvenience this may cause you.

ATTACHMENT ONE

AMERICAN LAND TITLE ASSOCIATION
RESIDENTIAL TITLE INSURANCE POLICY (6-1-87)
EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   - land use
   - improvements on the land
   - land division
   - environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.

   This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless:
   - a notice of exercising the right appears in the public records on the Policy Date
   - the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
3. Title Risks:
   - that are created, allowed, or agreed to by you
   - that are known to you, but not to us, on the Policy Date – unless they appeared in the public records
   - that result in no loss to you
   - that first affect your title after the Policy Date – this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks
4. Failure to pay value for your title.
5. Lack of a right:
   - to any land outside the area specifically described and referred to in Item 3 of Schedule A

     OR
   - in streets, alleys, or waterways that touch your land

   This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

In addition to the Exclusions you are not insured against loss, costs, attorneys' fees, and the expenses resulting from:

1. Any right, interests, or claims of parties in possession of the land not shown by the public records.
2. Any easements or liens not shown by the public records. This does not limit the lien coverage in Item 8 of Covered Title Risks.
3. Any facts about the land which a correct survey would disclose and which are not shown by the public records. This does not limit the forced removal coverage in Item 12 of Covered Title Risks.
4. Any water rights or claims or title to water in or under the land, whether or not shown by the public records.

CALIFORNIA LAND TITLE ASSOCIATION STANDARD COVERAGE POLICY - 1990
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;

   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;

   (c) resulting in no loss or damage to the insured claimant;

   (d) attaching or created subsequent to Date of Policy; or

   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

SCHEDULE B, PART I
EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

AMERICAN LAND TITLE ASSOCIATION LOAN POLICY (10-17-92) WITH ALTA ENDORSEMENT-FORM 1 COVERAGE EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:

   (a) created, suffered, assumed or agreed to by the insured claimant;

   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;

   (c) resulting in no loss or damage to the insured claimant;

   (d) attaching or created subsequent to Date of Policy (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material or to the extent insurance is afforded herein as to assessments for street improvements under construction or completed at Date of Policy); or

   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage.

4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the land is situated.

5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.

6. Any statutory lien for services, labor or materials (or the claim of priority of any statutory lien for services, labor or materials over the lien of the insured mortgage) arising from an improvement or work related to the land which is contracted for and commenced subsequent to Date of Policy and is not financed in whole or in part by proceeds of the indebtedness secured by the insured mortgage which at Date of Policy the insured has advanced or is obligated to advance.

7. Any claim, which arises out of the transaction creating the interest of the mortgagee insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:

   (i) the transaction creating the interest of the insured mortgagee being deemed a fraudulent conveyance or fraudulent transfer; or

   (ii) the subordination of the interest of the insured mortgagee as a result of the application of the doctrine or equitable subordination; or

   (iii) the transaction creating the interest of the insured mortgagee being deemed a preferential transfer except where the preferential transfer results from the failure:

      (a) to timely record the instrument of transfer; or

      (b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.

2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.

3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.

4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.

5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

2006 ALTA LOAN POLICY (06-17-06) EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to

   (i) the occupancy, use, or enjoyment of the Land;

   (ii) the character, dimensions, or location of any improvement erected on the Land;

   (iii) the subdivision of land; or

   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters

   (a) created, suffered, assumed, or agreed to by the Insured Claimant;

   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

   (c) resulting in no loss or damage to the Insured Claimant;

   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or

(e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.

5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.

6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is

   (a) a fraudulent conveyance or fraudulent transfer, or

   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records;

   (b) Proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.

2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.

3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.

4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.

5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY (10-17-92)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:

   (a) created, suffered, assumed or agreed to by the insured claimant;

   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;

   (c) resulting in no loss or damage to the insured claimant;

   (d) attaching or created subsequent to Date of Policy; or

   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.

4. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:

   (i) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or

   (ii) the transaction creating the estate or interest insured by this policy being deemed a preferential transfer except where the preferential transfer results from the failure:

      (a) to timely record the instrument of transfer; or

      (b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage Policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.

2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.

3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.

4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.

5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

ATTACHMENT ONE
(CONTINUED)

2006 ALTA OWNER'S POLICY (06-17-06)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location of any improvement erected on the Land;
   (iii) the subdivision of land; or
   (iv) environmental protection;

   or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

   (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
   (a) a fraudulent conveyance or fraudulent transfer; or
   (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (10-22-03)
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE (10-22-03)
EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes ordinances, laws and regulations concerning:
   a. building
   b. zoning
   c. Land use
   d. improvements on the Land
   e. Land division
   f. environmental protection

   This Exclusion does not apply to violations or the enforcement of these matters if notice of the violation or enforcement appears in the Public Records at the Policy Date.

   This Exclusion does not limit the coverage described in Covered Risk 14, 15, 16, 17 or 24.
2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at the Policy Date.
3. The right to take the Land by condemning it, unless:
   a. a notice of exercising the right appears in the Public Records at the Policy Date; or
   b. the taking happened before the Policy Date and is binding on You if You bought the Land without Knowing of the taking.
4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they appear in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they appear in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8.d, 22, 23, 24 or 25.
5. Failure to pay value for Your Title.
6. Lack of a right:
   a. to any Land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 18.

ATTACHMENT ONE
(CONTINUED)

LIMITATIONS ON COVERED RISKS

Your insurance for the following Covered Risks is limited on the Owner's Coverage Statement as follows:

- For Covered Risk 14, 15, 16 and 18, Your Deductible Amount and Our Maximum Dollar Limit of Liability shown in Schedule A.

The deductible amounts and maximum dollar limits shown on Schedule A are as follows:

	Your Deductible Amount	Our Maximum Dollar Limit of Liability
Covered Risk 14:	1.00% of Policy Amount or $ 2,500.00 (whichever is less)	$ 10,000.00
Covered Risk 15:	1.00% of Policy Amount or $ 5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 16:	1.00% of Policy Amount or $ 5,000.00 (whichever is less)	$ 25,000.00
Covered Risk 18:	1.00% of Policy Amount or $ 2,500.00 (whichever is less)	$ 5,000.00

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (10/13/01)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the Land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the Land; (iii) a separation in ownership or a change in the dimensions or areas of the Land or any parcel of which the Land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that s notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the Land has been recorded in the Public Records at Date of Policy. This exclusion does not limit the coverage provided under Covered Risks 12, 13, 14, and 16 of this policy.

   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the Land has been recorded in the Public Records at Date of Policy. This exclusion does not limit the coverage provided under Covered Risks 12, 13, 14, and 16 of this policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the Public Records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without Knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:

   (a) created, suffered, assumed or agreed to by the Insured Claimant;

   (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;

   (c) resulting In no loss or damage to the Insured Claimant;

   (d) attaching or created subsequent to Date of Policy (this paragraph does not limit the coverage provided under Covered Risks 8, 16, 18, 19, 20, 21, 22, 23, 24, 25 and 26); or

   (e) resulting in loss or damage which would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of the Insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the Land is situated.

5. Invalidity or unenforceability of the lien of the Insured Mortgage, or claim thereof, which arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, except as provided in Covered Risk 27, or any consumer credit protection or truth in lending law.

6. Real property taxes or assessments of any governmental authority which become a lien on the Land subsequent to Date of Policy. This exclusion does not limit the coverage provided under Covered Risks 7, 8(e) and 26.

7. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to advances or modifications made after the Insured has Knowledge that the vestee shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This exclusion does not limit the coverage provided in Covered Risk 8.

8. Lack of priority of the lien of the Insured Mortgage as to each and every advance made after Date of Policy, and all interest charged thereon, over liens, encumbrances and other matters affecting the title, the existence of which are Known to the Insured at:

   (a) The time of the advance; or

   (b) The time a modification is made to the terms of the Insured Mortgage which changes the rate of interest charged, if the rate of Interest is greater as a result of the modification than it would have been before the modification. This exclusion does not limit the coverage provided in Covered Risk 8.

9. The failure of the residential structure, or any portion thereof to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at Date of Policy.

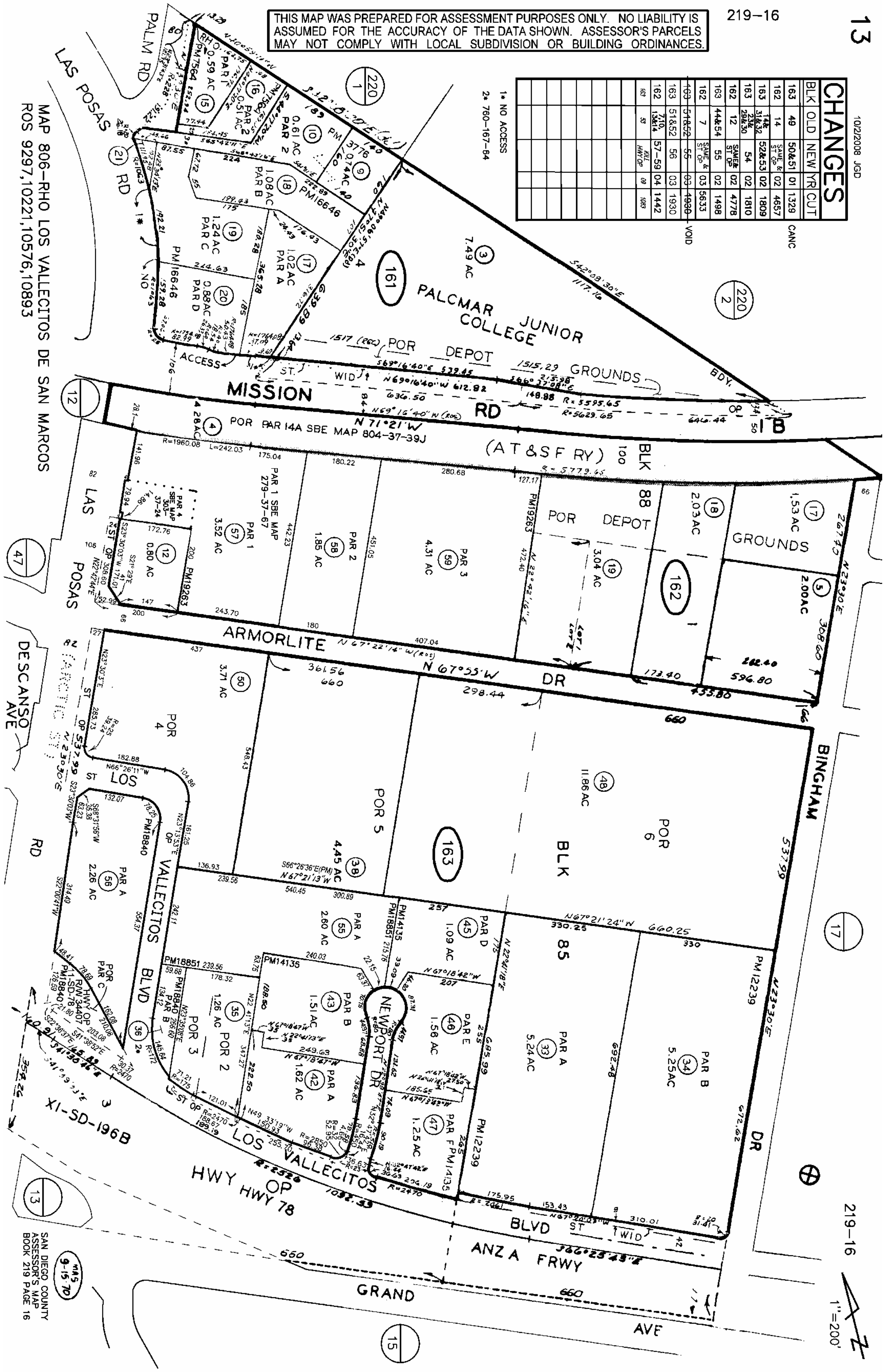
You may be entitled to receive a $20.00 discount on escrow services if you purchased, sold or refinanced residential property in California between May 19, 1995 and November 1, 2002. If you had more than one qualifying transaction, you may be entitled to multiple discounts.

If your previous transaction involved the same property that is the subject of your current transaction, you do not have to do anything; the Company will provide the discount, provided you are paying for escrow or title services in this transaction.

If your previous transaction involved property different from the property that is subject of your current transaction, you must - prior to the close of the current transaction - inform the Company of the earlier transaction, provide the address of the property involved in the previous transaction, and the date or approximate date that the escrow closed to be eligible for the discount.

Unless you inform the Company of the prior transaction on property that is not the subject of this transaction, the Company has no obligation to conduct an investigation to determine if you qualify for a discount. If you provide the Company information concerning a prior transaction, the Company is required to determine if you qualify for a discount which is subject to other terms and conditions.

(continued)


THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.
219-16
13
CHANGES
BLK OLD NEW YR CUT
1* NO ACCESS
2* 760-167-84
PALCMAR JUNIOR COLLEGE
MISSION RD
ARMORLITE DR
BINGHAM DR
LOS VALLECITOS BLVD
NEWPORT DR
LAS POSAS RD
DESCANSO AVE
PALM RD
GRAND AVE
ANZA FRWY
HWY 78
(AT&SF RY)
MAP 806-RHO LOS VALLECITOS DE SAN MARCOS
ROS 9297,10221,10576,10893
SAN DIEGO COUNTY ASSESSOR'S MAP BOOK 219 PAGE 16
1"=200'

APPENDIX C

PHASE II ENVIRONMENTAL SITE ASSESSMENT SELECTED INFORMATION (NINYO & MOORE, 2011)

LEGEND

B6	HAND AUGER BORING
SV12	SOIL VAPOR PROBE
	PARCEL BOUNDARY
219-161-21-00	PARCEL NUMBER

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

SCALE IN FEET

0 40 80 160

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE PLAN	FIGURE
PROJECT NO. / DATE	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	2
106088039 / 7/11		

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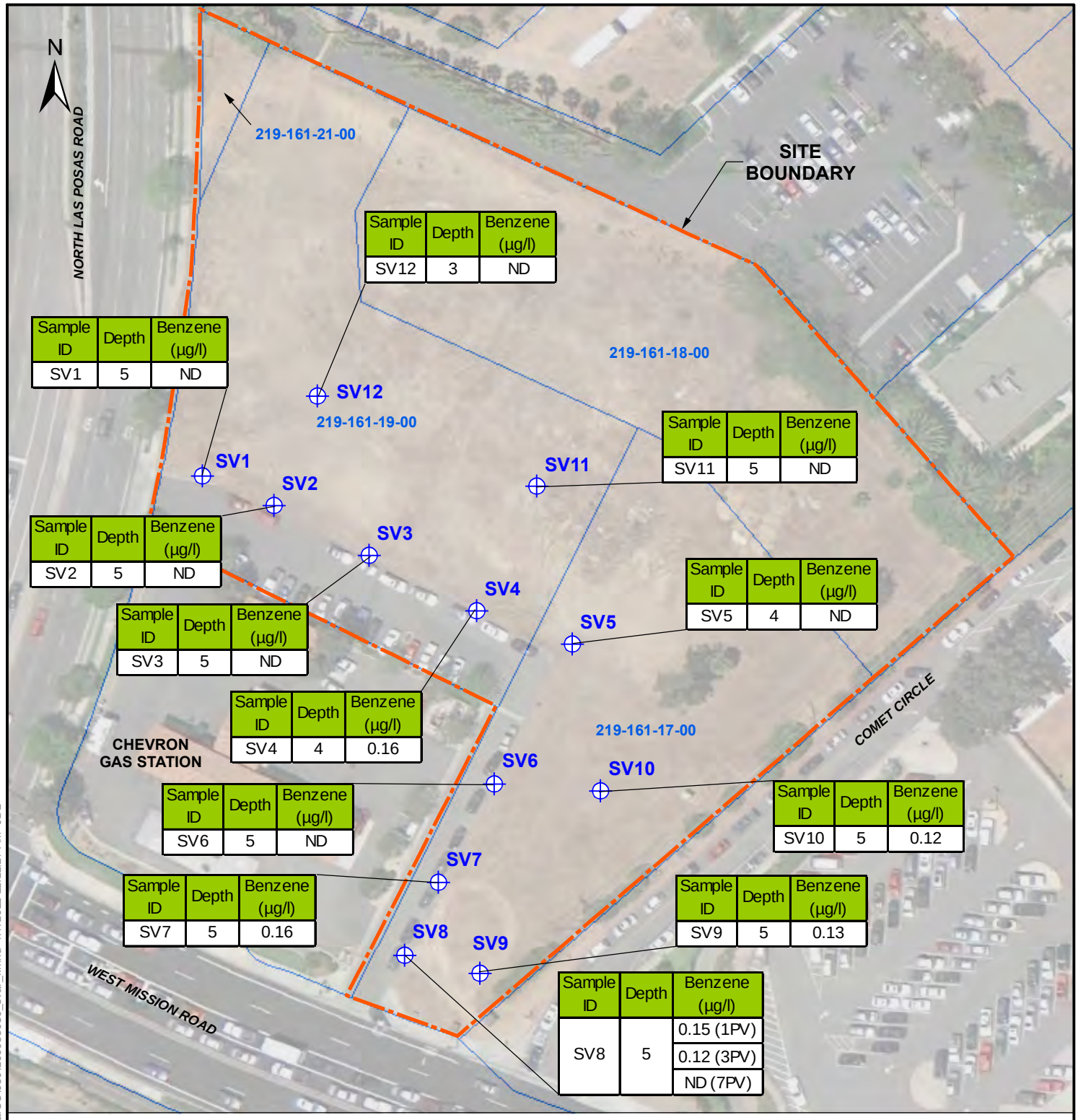

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

LEGEND

SV12 SOIL VAPOR PROBE

PARCEL BOUNDARY

219-161-21-00 PARCEL NUMBER

NOTES:
µg/l = micrograms per liter
ND = not detected
PV = purge volume
All samples collected at 1PV unless noted.

DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

SCALE IN FEET

0 40 80 160

Ninyo & Moore	SOIL VAPOR SAMPLE ANALYTICAL RESULTS	FIGURE
PROJECT NO. 106088039 / DATE 7/11	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	3

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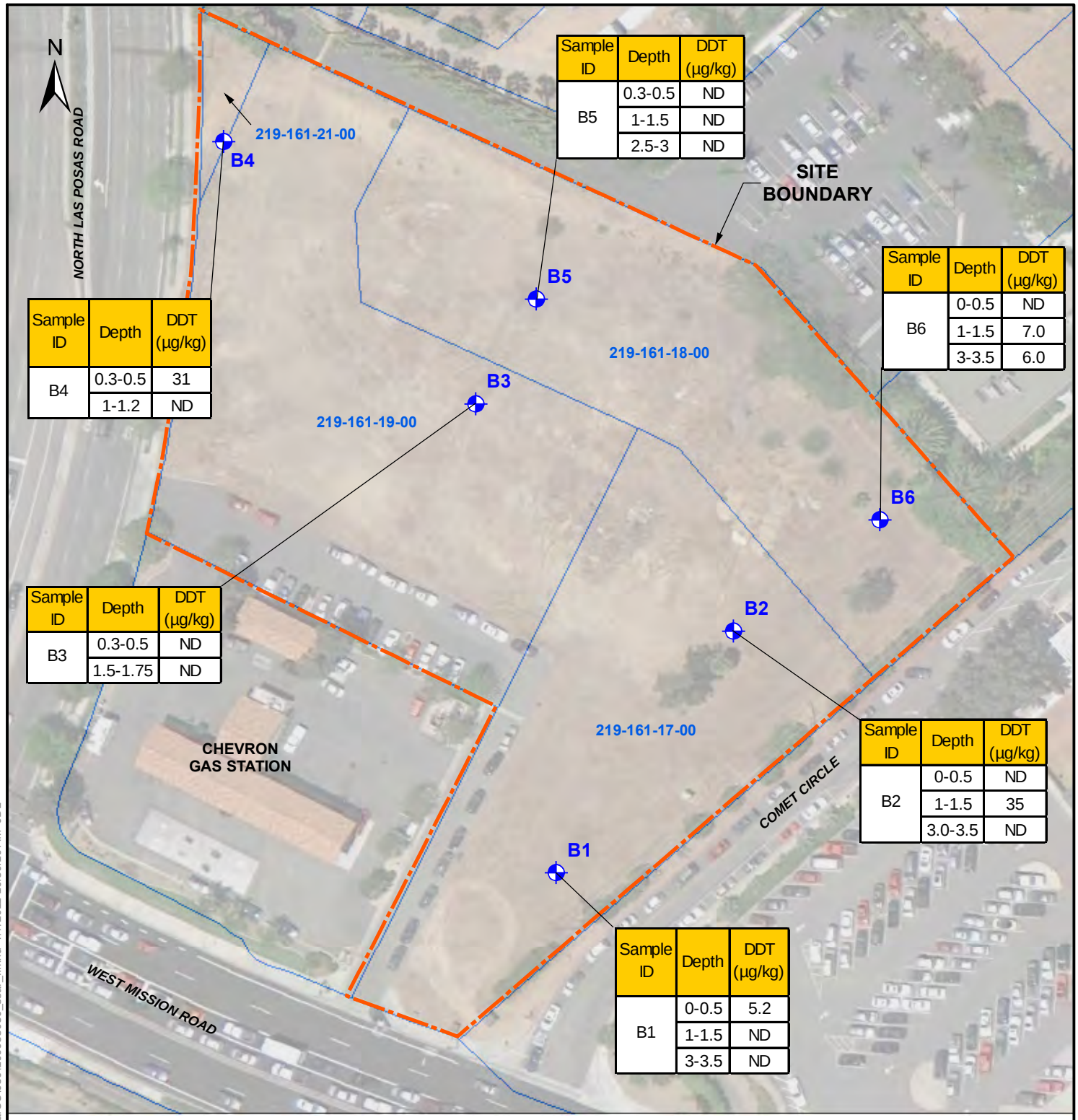


Sample ID	Depth	DDT (µg/kg)
B4	0.3-0.5	31
	1-1.2	ND

Sample ID	Depth	DDT (µg/kg)
B5	0.3-0.5	ND
	1-1.5	ND
	2.5-3	ND

Sample ID	Depth	DDT (µg/kg)
B6	0-0.5	ND
	1-1.5	7.0
	3-3.5	6.0

Sample ID	Depth	DDT (µg/kg)
B3	0.3-0.5	ND
	1.5-1.75	ND

Sample ID	Depth	DDT (µg/kg)
B2	0-0.5	ND
	1-1.5	35
	3.0-3.5	ND

Sample ID	Depth	DDT (µg/kg)
B1	0-0.5	5.2
	1-1.5	ND
	3-3.5	ND

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

LEGEND

B6 SOIL BORING

PARCEL BOUNDARY

219-161-21-00 PARCEL NUMBER

NOTES:
DDT = dichlorodiphenyltrichloroethane
µg/kg = micrograms per kilogram
ND = not detected

DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

SCALE IN FEET

0 40 80 160

Ninyo & Moore

SOIL SAMPLE ANALYTICAL RESULTS

FIGURE 4

PROJECT NO.	DATE
106088039	7/11

NORTH LAS POSAS ROAD AND WEST MISSION ROAD
SAN MARCOS, CALIFORNIA

S:\ArcGIS\Projects\100000_SD\106000-106999\106088_PalomarCC\039\106088039_ssar_r.mxd 7/7/2011 10:50:16 AM JDL

Table 1 - Summary of Soil Vapor Sample Analytical Results

Sample ID	Purge Volume	Depth (feet bgs)	Benzene (µg/ℓ)
SV1-5'	1	5	<0.10
SV2-5'	1	5	<0.10
SV3-5'	1	5	<0.10
SV3-5' DUP	1	5	<0.10
SV4-4'	1	4	**0.16**
SV5-4'	1	4	<0.10
SV6-5'	1	5	<0.10
SV7-5'	1	5	**0.16**
SV8-5'	1	5	**0.15**
	3	5	**0.12**
	7	5	<0.10
SV9-5'	1	5	**0.13**
SV10-5'	1	5	**0.12**
SV11-5'	1	5	<0.10
SV12-3'	1	3	<0.10

Notes:
µg/ℓ - micrograms per liter
bgs - below ground surface
1 Purge Volume = 111 cubic centimeters
Bold values indicated benzene was detected above the laboratory reporting limit of 0.10 µg/l.

Table 2 - Summary of Soil Sample Analytical Results

Sample ID	Depth (feet bgs)	Arsenic (mg/kg)	DDT (µg/kg)
B1-0-0.5	0-0.5	<2.0	**5.2**
B1-1.0-1.5	1-1.5	<1.0	<2.0
B1-3.0-3.5	3-3.5	<2.0	<2.0
B2-0-0.5	0-0.5	<1.0	<2.0
B2-1-1.5	1-1.5	<2.0	**35**
B2-3.0-3.5	3-3.5	<1.0	<2.0
B3-0.3-0.5	0.3-0.5	<2.0	<2.0
B3-1.5-1.75	1.5-1.75	<1.0	<2.0
B4-0.3-0.5	0.3-0.5	<2.0	**31**
B4-1.0-1.2	1-1.2	<2.0	<2.0
B5-0.3-0.5	0.3-0.5	<1.0	<2.0
B5-1-1.5	1-1.5	<1.0	<2.0
B5-2.5-3.0	2.5-3	<1.0	<2.0
B6-0-0.5	0-0.5	<1.0	<2.0
B6-1-1.5	1-1.5	<1.0	**7.0**
B6-3-3.5	3-3.5	<1.0	**6.0**

Notes:
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram
bgs - below ground surface

Table 3 - Summary of Risk Calculations

Detected Analyte	Maximum Detected Concentration	ECR	HI
Benzene	0.16 µg/ℓ	1.31E-07	3.55E-04
4,4'-DDT	35 µg/kg	1.08E-08	1.21E-03
	Total Risk	**1.42E-07**	**0.002**
	Threshold Cancer Risk	**1.00E-06**	**1.0**

Notes:
µg/ℓ - micrograms per liter
µg/kg - micrograms per kilogram
DDT - dichlorodiphenyltrichloroethane
ECR - excess cancer risk
HI - non-cancer hazard index

APPENDIX D

ENVIRONMENTAL DATABASE REPORT

PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.2s
June 15, 2011

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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

TABLE OF CONTENTS

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

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

LAS POSAS ROAD/MISSION ROAD
SAN MARCOS, CA 92069

COORDINATES

Latitude (North):	33.148900 - 33° 8' 56.0''
Longitude (West):	117.187500 - 117° 11' 15.0''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	482513.6
UTM Y (Meters):	3667618.2
Elevation:	583 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	33117-B2 SAN MARCOS, CA
Most Recent Revision:	1996

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2005
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List

EXECUTIVE SUMMARY

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 RCRA generators list

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

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

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

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST ---------- Aboveground Petroleum Storage Tank Facilities
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

DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations

ODI ---- Open Dump Inventory
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
San Diego Co. HMMD ---- Hazardous Materials Management Division Database
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
LUCIS ---- Land Use Control Information System
LIENS ---- Environmental Liens Listing
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System
CHMIRS ---- California Hazardous Material Incident Report System
LDS ---- Land Disposal Sites Listing
MCS ---- Military Cleanup Sites Listing

Other Ascertainable Records

DOT OPS ---- Incident and Accident Data
DOD ---- Department of Defense Sites
FUDS ---- Formerly Used Defense Sites
CONSENT ---- Superfund (CERCLA) Consent Decrees
ROD ---- Records Of Decision
UMTRA ---- Uranium Mill Tailings Sites
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

CA BOND EXP. PLAN Bond Expenditure Plan
WDS Waste Discharge System
NPDES NPDES Permits Listing
Cortese "Cortese" Hazardous Waste & Substances Sites List
DRYCLEANERS Cleaner Facilities
WIP Well Investigation Program Case List
HAZNET Facility and Manifest Data
EMI Emissions Inventory Data
INDIAN RESERV Indian Reservations
SCRD DRYCLEANERS State Coalition for Remediation of Drycleaners Listing
HWT Registered Hazardous Waste Transporter Database
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE Financial Assurance Information Listing
PCB TRANSFORMER PCB Transformer Registration Database
PROC Certified Processors Database
MWMP Medical Waste Management Program Listing
COAL ASH DOE Sleam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations EDR Proprietary Historic Gas Stations
EDR Historical Cleaners EDR Proprietary Historic Dry Cleaners

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 CERCLIS NFRAP site List

CERC-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 02/25/2011 has revealed that there are

3 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TORREY CHEMICAL CO	217 LAS POSAS RD	SW 1/8 - 1/4 (0.173 mi.)	C12	60
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***
MOYER CHEMICAL	1227 LOS VALLECITOS RD	SSW 1/4 - 1/2 (0.348 mi.)	23	119

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/09/2011 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: 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.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/11/2011 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/11/2011 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EXXONMOBIL OIL CORP.	1290 W MISSION RD	WSW 0 - 1/8 (0.083 mi.)	A2	10
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***

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 03/11/2011 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PRECISION COLLISION	***1320-A W MISSION RD***	***WSW 0 - 1/8 (0.109 mi.)***	***B4***	***18***
DEALER SERVICE SUITE A	***1322 W MISSION RD***	***W 0 - 1/8 (0.111 mi.)***	***B5***	***19***
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
PACIFIC BELL	***225 LOS POSAS***	***SW 1/8 - 1/4 (0.163 mi.)***	***C9***	***53***
ESCONDIDO PAINT & BODY	***1416 W MISSION RD***	***WNW 1/8 - 1/4 (0.217 mi.)***	***19***	***107***
GRANDWOOD INC	***1305 ARMORLITE DR***	***WSW 1/8 - 1/4 (0.219 mi.)***	***E20***	***113***

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 05/10/2011 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TORREY CHEMICAL CO. Status: Refer: Other Agency	217 LAS POSAS ROAD	SW 1/8 - 1/4 (0.173 mi.)	C11	59
SIGNET ARMORLITE Status: Inactive - Needs Evaluation	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***
NAPP SYSTEMS, INC.	360 S. PACIFIC STREET	WNW 1/4 - 1/2 (0.311 mi.)	22	118
HUES METAL FINISHING, INC.	977 LINDA VISTA DRIVE	S 1/2 - 1 (0.665 mi.)	32	144
670 SAN MARCOS BLVD. Status: Refer: 1248 Local Agency	670 SAN MARCOS BLVD.	SE 1/2 - 1 (0.953 mi.)	34	145

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 04/29/2011 has revealed that there are 9

LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SAN MARCOS GAS	***1290 W MISSION RD***	***WSW 0 - 1/8 (0.083 mi.)***	***A3***	***11***
Status: Open - Site Assessment				
PIONEER MILLS	***1329 W MISSION RD***	***W 0 - 1/8 (0.116 mi.)***	***B6***	***22***
Status: Completed - Case Closed				
PIONEER MILLS	1329 MISSION RD W	W 0 - 1/8 (0.116 mi.)	B7	27
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
Status: Completed - Case Closed				
Status: Completed - Case Closed				
CREST BEVERAGE	***1152 ARMORLITE***	***SSW 1/8 - 1/4 (0.184 mi.)***	***13***	***61***
Status: Completed - Case Closed				
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***
Status: Completed - Case Closed				
COUNTY OF SD-PUBLIC WORKS	***1600 DESCANSO AVE***	***WSW 1/4 - 1/2 (0.402 mi.)***	***F26***	***129***
SAN MARCOS ROAD STATION	1600 DESCANSO AVE	WSW 1/4 - 1/2 (0.402 mi.)	F27	131
DEWEY PEST CONTROL	***1370 GRAND AVENUE***	***SW 1/4 - 1/2 (0.496 mi.)***	***30***	***136***

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 04/29/2011 has revealed that there are 7 SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
COCA COLA ENTERPISES	NONE LAS POSAS/ARMORLIT	SW 1/8 - 1/4 (0.188 mi.)	C14	66
Facility Status: Completed - Case Closed				
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***
Facility Status: Open - Site Assessment				
SIGNET ARMORLITE, INCORPORATED	1001 ARMORLITE DR.	SW 1/8 - 1/4 (0.192 mi.)	D17	100
PATIO GUYS INC	***935 BAILEY CT STE D***	***SE 1/4 - 1/2 (0.356 mi.)***	***24***	***120***
Facility Status: Completed - Case Closed				
SPANJIAN BLDG	***1050 LOS VALLECITOS BL***	***S 1/4 - 1/2 (0.482 mi.)***	***28***	***132***
Facility Status: Open - Verification Monitoring				
COLUCCI DEVELOPMENT	1325 GRAND AVE	SW 1/4 - 1/2 (0.485 mi.)	29	135
DEWEY PEST CONTROL	***1370 GRAND AVENUE***	***SW 1/4 - 1/2 (0.496 mi.)***	***30***	***136***
Facility Status: Completed - Case Closed				

SAN DIEGO CO. SAM: 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.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there are 10 SAN DIEGO CO. SAM sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SAN MARCOS GAS	***1290 W MISSION RD***	***WSW 0 - 1/8 (0.083 mi.)***	***A3***	***11***
PIONEER MILLS	***1329 W MISSION RD***	***W 0 - 1/8 (0.116 mi.)***	***B6***	***22***
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
CREST BEVERAGE	***1152 ARMORLITE***	***SSW 1/8 - 1/4 (0.184 mi.)***	***13***	***61***

Lower Elevation	Address	Direction / Distance	Map ID	Page
COCA COLA ENTERPISES	LAS POSAS/ARMORLITE	SW 1/8 - 1/4 (0.190 mi.)	D15	66
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***
VACANT LOT	***199 LAS POSAS RD***	***SW 1/8 - 1/4 (0.226 mi.)***	***21***	***117***
PATIO GUYS INC	***935 BAILEY CT STE D***	***SE 1/4 - 1/2 (0.356 mi.)***	***24***	***120***
SPANJIAN BLDG	***1050 LOS VALLECITOS BL***	***S 1/4 - 1/2 (0.482 mi.)***	***28***	***132***
DEWEY PEST CONTROL	***1370 GRAND AVENUE***	***SW 1/4 - 1/2 (0.496 mi.)***	***30***	***136***

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 04/29/2011 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MOBIL OIL CORPORATION	***1290 W MISSION RD***	***WSW 0 - 1/8 (0.083 mi.)***	***A1***	***8***
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
PACIFIC BELL SNMCCA11/DB151	***225 N LAS POSAS RD***	***SW 1/8 - 1/4 (0.166 mi.)***	***C10***	***56***

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 3 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PIONEER MILLS	***1329 W MISSION RD***	***W 0 - 1/8 (0.116 mi.)***	***B6***	***22***
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
PACIFIC BELL	***225 LOS POSAS***	***SW 1/8 - 1/4 (0.163 mi.)***	***C9***	***53***

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 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PIONEER MILLS	***1329 W MISSION RD***	***W 0 - 1/8 (0.116 mi.)***	***B6***	***22***
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
PACIFIC BELL SNMCCA11/DB151	***225 N LAS POSAS RD***	***SW 1/8 - 1/4 (0.166 mi.)***	***C10***	***56***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CREST BEVERAGE	***1152 ARMORLITE***	***SSW 1/8 - 1/4 (0.184 mi.)***	***13***	***61***

Other Ascertainable Records

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

A review of the RCRA-NonGen list, as provided by EDR, and dated 03/11/2011 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADVANCED STRUCTURES INC	***1315 ARMORLITE DR***	***WSW 1/8 - 1/4 (0.216 mi.)***	***E18***	***104***

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].

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 6 HIST CORTESE sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
PIONEER MILLS	***1329 W MISSION RD***	***W 0 - 1/8 (0.116 mi.)***	***B6***	***22***
PALOMAR COMMUNITY COLLEGE	***1140 E MISSION RD***	***SE 1/8 - 1/4 (0.142 mi.)***	***8***	***27***
CREST BEVERAGE	***1152 ARMORLITE***	***SSW 1/8 - 1/4 (0.184 mi.)***	***13***	***61***
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***
COUNTY OF SD-PUBLIC WORKS	***1600 DESCANSO***	***WSW 1/4 - 1/2 (0.402 mi.)***	***F25***	***127***
DEWEY PEST CONTROL	***1370 GRAND AVENUE***	***SW 1/4 - 1/2 (0.496 mi.)***	***30***	***136***

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MASHBURN SANITATION CO.	***224 LAS POSAS ROAD***	***SSW 1/2 - 1 (0.583 mi.)***	***31***	***144***
CRIBBAGE LANE & SAN MARCOS BL.		S 1/2 - 1 (0.928 mi.)	33	145

EXECUTIVE SUMMARY

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/09/2010 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

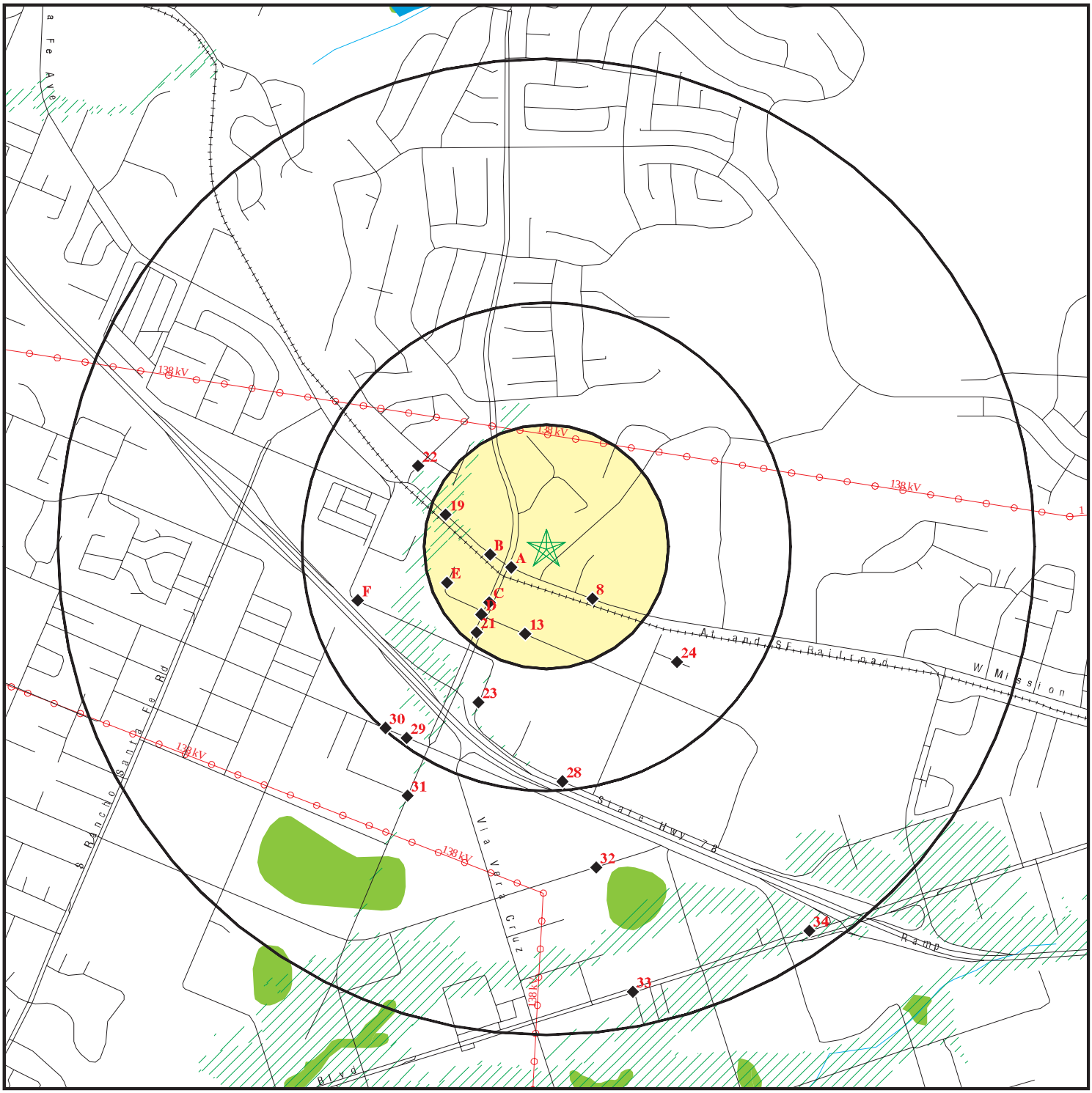
Lower Elevation	Address	Direction / Distance	Map ID	Page
SIGNET ARMORLITE	***130 N BINGHAM DR***	***SW 1/8 - 1/4 (0.192 mi.)***	***D16***	***66***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 16 records.

Site Name	Database(s)
SHELL SERVICE STATION	HIST CORTESE
MISSION HILLS CHURCH	NPDES
RANCHEROS DRIVE & MISSION RD	NPDES
PEACOCK CLEANERS	DRYCLEANERS, HAZNET
OLD WEST WOOD FINISHING	CERC-NFRAP
OLD SAN MARCOS LF (BRADLEY PARK)	SWF/LF
MR. HENRY MULCHING OPERTATION	SWF/LF
MISSION BAY	ERNS
MISSION BAY	ERNS
998 WEST MISSION BAY DRIVE	ERNS
UNKNOWN SHEEN INCIDENT MISSION BAY	ERNS
MISSION HILLS HS AKA HOLLANDIA DAI	SCH, ENVIROSTOR
C. W. MCGRATH, INC.	MINES
SUPERIOR READY MIX CONCRETE CO.	MINES
VULCAN MATERIALS CO.	MINES
EVANS DEDICATED SYSTEMS	ENVIROSTOR

OVERVIEW MAP - 3095719.2s



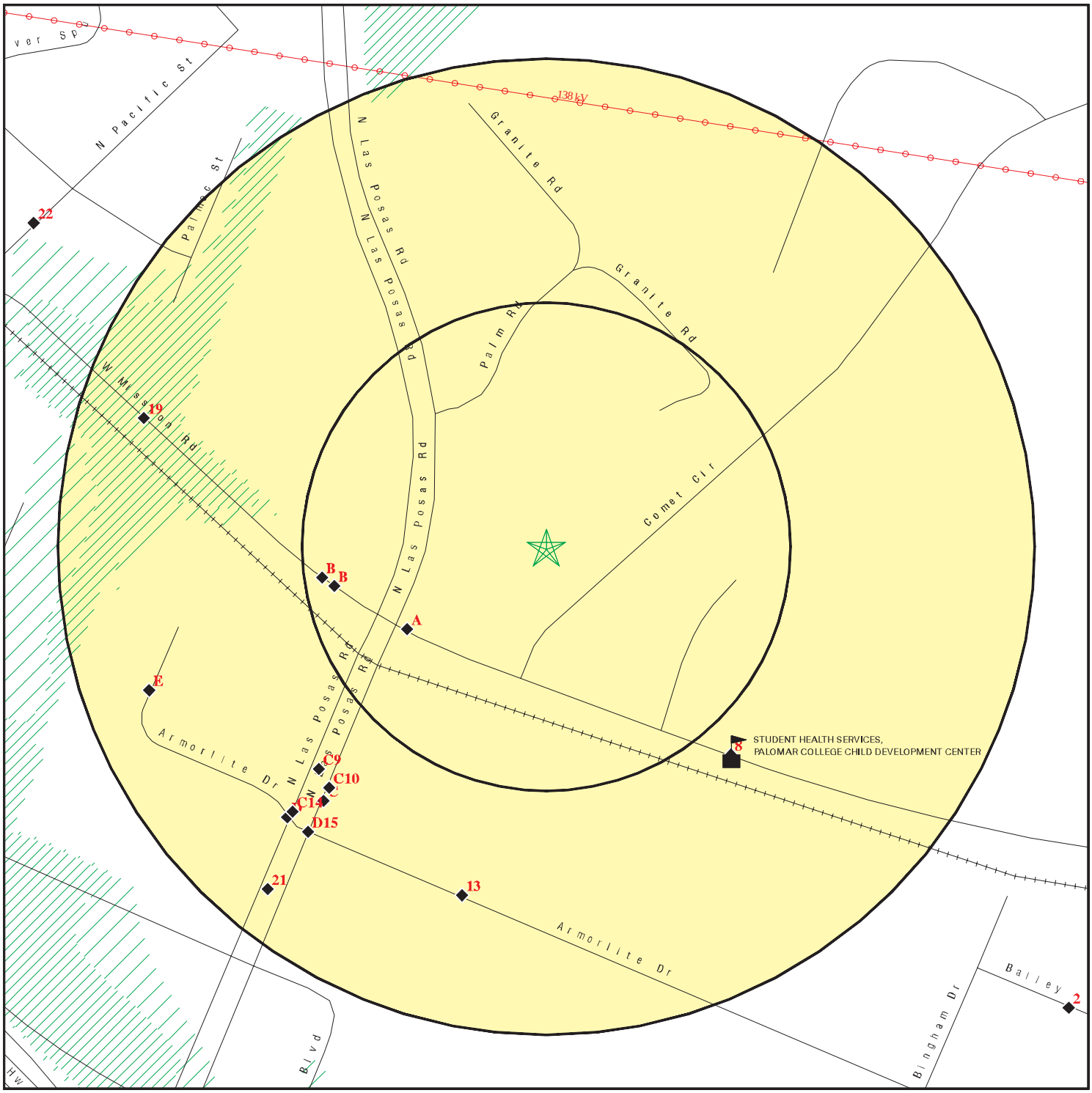
0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- 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: PCC Las Posas and Mission Roads	CLIENT: Ninyo & Moore
ADDRESS: Las Posas Road/Mission Road San Marcos CA 92069	CONTACT: Lisa Bestard
LAT/LONG: 33.1489 / 117.1875	INQUIRY #: 3095719.2s DATE: June 15, 2011 1:26 pm

DETAIL MAP - 3095719.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines
- 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: PCC Las Posas and Mission Roads	CLIENT: Ninyo & Moore
ADDRESS: Las Posas Road/Mission Road San Marcos CA 92069	CONTACT: Lisa Bestard
LAT/LONG: 33.1489 / 117.1875	INQUIRY #: 3095719.2s DATE: June 15, 2011 1:28 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 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		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	2	1	NR	NR	3
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	1	0	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	1	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG		0.250	1	1	NR	NR	NR	2
RCRA-SQG		0.250	2	4	NR	NR	NR	6
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
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE		1.000	0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR		1.000	0	2	1	2	NR	5
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	3	3	NR	NR	9
SLIC		0.500	0	3	4	NR	NR	7

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SAN DIEGO CO. SAM		0.500	2	5	3	NR	NR	10
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	1	2	NR	NR	NR	3
AST		0.250	0	0	NR	NR	NR	0
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								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		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
San Diego Co. HMMD		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	1	2	NR	NR	NR	3
SWEEPS UST		0.250	1	3	NR	NR	NR	4
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	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

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS		TP	NR	NR	NR	NR	NR	0
LDS		TP	NR	NR	NR	NR	NR	0
MCS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	0	1	NR	NR	NR	1
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
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
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
CA BOND EXP. PLAN		1.000	0	0	0	0	NR	0
WDS		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	1	3	2	NR	NR	6
Notify 65		1.000	0	0	0	2	NR	2
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
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
HWP		1.000	0	1	0	0	NR	1
HWT		0.250	0	0	NR	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
FINANCIAL ASSURANCE		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
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **MOBIL OIL CORPORATION** **UST** **U003789816**
WSW **1290 W MISSION RD** **San Diego Co. HMMD** **N/A**
< 1/8 **SAN MARCOS, CA 92069**
0.083 mi.
438 ft. **Site 1 of 3 in cluster A**

Relative:
Lower

Actual:
574 ft.

UST:
Facility ID: 19513
Latitude: 33.14828
Longitude: -117.18871

San Diego Co. HMMD:

Facility ID:	125233
Inactive Indicator:	Active
Business Code:	6HK28
SIC:	Not reported
Permit Expiration:	Not reported
Owner:	EXXON MOBIL OIL CORP
2nd Name:	C/O VEEDER-ROOT, CMS
Mailing Address:	12265 W. BAYAUD AVE.
Mailing City,St,Zip:	LAKEWOOD, CO 80228
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	San Marcos
Census Tract Number:	200.2
EPA ID:	CAL000055711
Gas Station:	Not reported
Inspection Date:	07/25/02
Reinspection Date:	Not reported
Inspector Name:	JFERNAN1
Violation Notice Issued:	Not reported
Facility Contact:	DON HARMS
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	LAS POSAS PARTNERS
Property Address:	5505 CANCHA DE GOLF
Property City,St,Zip:	RCHO SANTA FE, CA 92091
Tank Owner:	EXXON MOBIL OIL CORP
Tank Address:	3700 W 190TH ST 322
Tank City,St,Zip:	Torrance, CA 90504
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	760-752-7082

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported
2nd Hazard Category:	Not reported

MOBIL OIL CORPORATION (Continued) **U003789816**

HMMD UNDERGROUND TANKS:
Tank Number: T001
Tank ID Number: RT1404
Waste or Product: 10000
Tank Contents: Not reported

Tank Number: T002
Tank ID Number: RT1043
Waste or Product: 10000
Tank Contents: Not reported

Tank Number: T003
Tank ID Number: RT1043
Waste or Product: 10000
Tank Contents: Not reported

Tank Number: T004
Tank ID Number: RT1043
Waste or Product: 10000
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: 06/20/01
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2599

Inspection Date: 07/25/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 5819

Inspection Date: 09/29/98
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4237

HMMD WASTE STREAMS:
Inspection Date: Not reported
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: Not reported
Qnty at Inspection: Not reported
Quantity String: Not reported
Annual Qty: Not reported
Annual Qty String: Not reported
Measurement Unit: Not reported
Treatment Method: Not reported
Storage Method: Not reported
Haz Waste Hauler: Not reported
Waste Desc: Not reported
Carcinogen: No

A2
WSW
< 1/8
0.083 mi.
438 ft.

EXXONMOBIL OIL CORP.
1290 W MISSION RD
SAN MARCOS, CA 92069

Site 2 of 3 in cluster A

RCRA-LQG | **1007200263** / **CAL000098361**

Relative:
Lower

Actual:
574 ft.

RCRA-LQG:

Date form received by agency:	02/28/2002
Facility name:	EXXONMOBIL OIL CORP.
Facility address:	1290 W MISSION RD SAN MARCOS, CA 92069
EPA ID:	CAL000098361
Mailing address:	WEST BAYAUD AVE. LAKEWOOD, CO 80228
Contact:	JOHN HOOVER
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(800) 253-8054
Contact email:	Not reported
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	EXXONMOBIL OIL CORP.
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/31/2002
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

EXXONMOBIL OIL CORP. (Continued) **1007200263**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: 223
Waste name: 223

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.

Violation Status: No violations found

A3 **SAN MARCOS GAS** **LUST** **S106071324**
WSW **1290 W MISSION RD** **San Diego Co. HMMD** **N/A**
< 1/8 **SAN MARCOS, CA 92069** **HAZNET**
0.083 mi. **SAN DIEGO CO. SAM**
438 ft. **Site 3 of 3 in cluster A**

Relative:
Lower

Actual:
574 ft.

LUST:
Region: STATE
Global Id: T0607383730
Latitude: 33.148608
Longitude: -117.188192
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 2003-04-15 00:00:00
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: TVS
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
LOC Case Number: H25233-001
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: During pipeline and dispenser upgrading in 2003, a release was discovered. A workplan for site assessment was submitted and approved, but no work has been done to date.

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

LUST:
Global Id: T0607383730
Contact Type: Local Agency Caseworker
Contact Name: TONY SAWYER
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: tony.sawyer@sdcounty.ca.gov
Phone Number: Not reported

Global Id: T0607383730

SAN MARCOS GAS (Continued) **S106071324**

Contact Type: Regional Board Caseworker
Contact Name: UNASSIGNED
Organization Name: SAN DIEGO RWQCB (REGION 9)
Address: 9174 SKY PARK COURT, SUITE 100
City: SAN DIEGO
Email: unassigned
Phone Number: Not reported

LUST:

Global Id: T0607383730
Action Type: ENFORCEMENT
Date: 2003-04-15 00:00:00
Action: Notice of Responsibility

Global Id: T0607383730
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0607383730
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0607383730
Action Type: ENFORCEMENT
Date: 2009-07-09 00:00:00
Action: Letter - Notice

Global Id: T0607383730
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0607383730
Action Type: ENFORCEMENT
Date: 2010-05-21 00:00:00
Action: Letter - Notice

Global Id: T0607383730
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Began

San Diego Co. HMMD:

Facility ID: 201278
Inactive Indicator: Active
Business Code: 6HK28
SIC: Not reported
Permit Expiration: Not reported
Owner: DON HARMS INC.
2nd Name: Not reported
Mailing Address: 1290 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 92069
Map Code/Business Plan on File: Not reported

SAN MARCOS GAS (Continued) **S106071324**

Corporate Code:	Not reported
Fire Dept District:	San Marcos
Census Tract Number:	200.2
EPA ID:	CAL000269947
Gas Station:	Not reported
Inspection Date:	09/16/09
Reinspection Date:	Not reported
Inspector Name:	SKHAN
Violation Notice Issued:	Not reported
Facility Contact:	DON HARMS
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	LAS POSAS PARTNERS
Property Address:	5505 CANCHA DE GOLF
Property City,St,Zip:	RCHO SANTA FE, CA 92091
Tank Owner:	DON HARMS
Tank Address:	1290 W MISSION RD
Tank City,St,Zip:	San Marcos, CA 92069
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	09/16/10
Facility Phone:	760-752-7082

HMMD DISCLOSURE INVENTORY:

Item Number:	DIE
Chemical Name:	DIESEL UNDERGROUND TANK 125233 T001 DIESEL
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	FIRE
2nd Hazard Category:	Not reported

Item Number:	ETH
Chemical Name:	ETHYLENE GLYCOL BUTYL ETHER 3% WAX & SOAP
Case Number:	111-76-2
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	ACUTE
2nd Hazard Category:	Not reported

Item Number:	MID
Chemical Name:	MIDGRADE UNLEADED UNDERGROUND TANK 125233 T003 MIDGRADE UNLEADED
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported

SAN MARCOS GAS (Continued) **S106071324**

Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: Not reported

Item Number: PRE
Chemical Name: PREMIUM UNLEADED UNDERGROUND TANK 125233 T002 PREMIUM UNLEADED
Case Number: Not reported
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: Not reported

Item Number: PRO
Chemical Name: PROPANE
Case Number: 74-98-6
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: PRESSURE RELEASE

Item Number: REG
Chemical Name: REGULAR UNLEADED UNDERGROUND TANK 125233 T004 REGULAR UNLEADED
Case Number: Not reported
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: Not reported

HMMD UNDERGROUND TANKS:
Tank Number: T001
Tank ID Number: RT1404, RT
Waste or Product: 10000
Tank Contents: Not reported

Tank Number: T002
Tank ID Number: RT1043, RT
Waste or Product: 10000
Tank Contents: Not reported

Tank Number: T003
Tank ID Number: RT1043, RT
Waste or Product: 10000
Tank Contents: Not reported

Tank Number: T004

SAN MARCOS GAS (Continued) **S106071324**

Tank ID Number: RT1043, RT
Waste or Product: 10000
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: 09/27/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9710

Inspection Date: 09/16/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0421

Inspection Date: 09/16/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0422

Inspection Date: 09/16/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0423

Inspection Date: 09/16/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0424

Inspection Date: 09/16/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0425

Inspection Date: 09/15/08
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3366

Inspection Date: 09/15/08
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3367

Inspection Date: 09/15/08
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3368

Inspection Date: 09/15/08
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3369

Inspection Date: 01/24/03
Waste Code: Not reported

SAN MARCOS GAS (Continued) **S106071324**

Occurrences: Not reported
Item Number: 2246

Inspection Date: 01/24/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2247

Inspection Date: 01/24/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2248

Inspection Date: 01/24/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2249

Inspection Date: 01/24/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2250

Inspection Date: 01/24/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2251

Inspection Date: 09/28/04
Waste Code: Not reported
Occurrences: Not reported
Item Number: 1271

HMMD WASTE STREAMS:
Inspection Date: 09/16/09
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: USED OIL FILTERS
Qnty at Inspection: 20
Quantity String: 20
Annual Qty: 40
Annual Qty String: 40
Measurement Unit: LBS
Treatment Method: 888 FILTERS/METAL RE
Storage Method: METAL DRUM
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: WASTE FUEL FILTERS
Carcinogen: No

HAZNET:
Year: 2006
Gepaid: CAL000269947
Contact: BRAD NAPIER
Telephone: 7607527082
Mailing Name: Not reported

SAN MARCOS GAS (Continued) **S106071324**

Mailing Address: 1290 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 92069
Gen County: San Diego
TSD EPA ID: AZR000035915
TSD County: 99
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: 01
Tons: Not reported
Facility County: San Diego

Year: 2004
Gepaid: CAL000269947
Contact: BRAD NAPIER
Telephone: 7607527082
Mailing Name: Not reported
Mailing Address: 1290 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 92069
Gen County: San Diego
TSD EPA ID: KYD053348108
TSD County: 99
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: Not reported
Tons: 0.03
Facility County: Not reported

Year: 2003
Gepaid: CAL000269947
Contact: BRAD NAPIER
Telephone: 7607527082
Mailing Name: Not reported
Mailing Address: 1290 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 92069
Gen County: San Diego
TSD EPA ID: CAT080033681
TSD County: San Diego
Waste Category: Other organic solids
Disposal Method: R01
Tons: 0
Facility County: San Diego

Year: 2003
Gepaid: CAL000269947
Contact: BRAD NAPIER
Telephone: 7607527082
Mailing Name: Not reported
Mailing Address: 1290 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 92069
Gen County: San Diego
TSD EPA ID: CAT080013352
TSD County: San Diego
Waste Category: Unspecified aqueous solution
Disposal Method: R01
Tons: 0.83
Facility County: San Diego

SAN DIEGO CO. SAM:
Case Number: H25233-001

SAN MARCOS GAS (Continued) **S106071324**

Agency: DEH Site Assessment & Mitigation
Funding: LOP - State Fund
FType: GW With No Beneficial Use Designation
FStatus: 3
Date: 4/3/2003
Date Began: 3/18/2003

B4 **PRECISION COLLISION** **RCRA-SQG 1000172355**
WSW **1320-A W MISSION RD** **FINDS CAD982483315**
< 1/8 **ESCONDIDO, CA 92025**
0.109 mi.
577 ft. **Site 1 of 4 in cluster B**

Relative:
Lower

Actual:
572 ft.

RCRA-SQG:
Date form received by agency: 03/08/1990
Facility name: PRECISION COLLISION
Facility address: 1320-A W MISSION RD
ESCONDIDO, CA 92025
EPA ID: CAD982483315
Mailing address: W MISSION RD
ESCONDIDO, CA 92025
Contact: ENVIRONMENTAL MANAGER
Contact address: 1320 A W MISSION RD
ESCONDIDO, CA 92025
Contact country: US
Contact telephone: (619) 747-8862
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: ROD SMITHERS
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

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

PRECISION COLLISION (Continued) **1000172355**

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: 110002826318

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.

B5 **DEALER SERVICE SUITE A** **RCRA-SQG** **1000280942**
West **1322 W MISSION RD** **FINDS** **CAD982525842**
< 1/8 **ESCONDIDO, CA 92025** **HAZNET**
0.111 mi.
584 ft. **Site 2 of 4 in cluster B**

Relative:
Lower

Actual:
572 ft.

RCRA-SQG:
- Date form received by agency: 06/09/1989
- Facility name: DEALER SERVICE SUITE A
- Facility address: 1322 W MISSION RD ESCONDIDO, CA 92025
- EPA ID: CAD982525842
- Mailing address: W MISSION RD ESCONDIDO, CA 92025
- Contact: ENVIRONMENTAL MANAGER
- Contact address: 1322 W MISSION RD ESCONDIDO, CA 92025
- Contact country: US
- Contact telephone: (619) 746-6898
- 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

DEALER SERVICE SUITE A (Continued) **1000280942**

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: ROBERT M CORDOVA
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: 110002842755

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:

DEALER SERVICE SUITE A (Continued) **1000280942**

Year:	1997
Gepaid:	CAD982525842
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1322 W MISSION RD
Mailing City,St,Zip:	ESCONDIDO, CA 920250000
Gen County:	San Diego
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Paint sludge
Disposal Method:	R01
Tons:	.2293
Facility County:	San Diego

Year:	1996
Gepaid:	CAD982525842
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1322 W MISSION RD
Mailing City,St,Zip:	ESCONDIDO, CA 920250000
Gen County:	San Diego
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Paint sludge
Disposal Method:	R01
Tons:	.4586
Facility County:	San Diego

Year:	1995
Gepaid:	CAD982525842
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1322 W MISSION RD
Mailing City,St,Zip:	ESCONDIDO, CA 920250000
Gen County:	San Diego
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Paint sludge
Disposal Method:	R01
Tons:	.7713
Facility County:	San Diego

Year:	1994
Gepaid:	CAD982525842
Contact:	Not reported
Telephone:	0000000000
Mailing Name:	Not reported
Mailing Address:	1322 W MISSION RD
Mailing City,St,Zip:	ESCONDIDO, CA 920250000
Gen County:	San Diego
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Waste Category:	Paint sludge
Disposal Method:	R01

DEALER SERVICE SUITE A (Continued) **1000280942**

Tons: .4586
Facility County: San Diego

Year: 1993
Gepaid: CAD982525842
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1322 W MISSION RD
Mailing City,St,Zip: ESCONDIDO, CA 920250000
Gen County: San Diego
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Waste Category: Paint sludge
Disposal Method: Not reported
Tons: .4795
Facility County: San Diego

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

B6 **PIONEER MILLS** **HIST CORTESE** **U001572219**
West **1329 W MISSION RD** **LUST** **N/A**
< 1/8 **SAN MARCOS, CA 92069** **HIST UST**
0.116 mi. **SWEEPS UST**
610 ft. **Site 3 of 4 in cluster B** **San Diego Co. HMMD**
SAN DIEGO CO. SAM

Relative:
Lower

Actual:
571 ft.

CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1010

LUST:
Region: STATE
Global Id: T0607300032
Latitude: 33.1488568
Longitude: -117.1900597
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 1993-02-12 00:00:00
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: PV
Local Agency: Not reported
RB Case Number: 9UT1010
LOC Case Number: H02919-001
File Location: Local Agency
Potential Media Affect: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

LUST:
Global Id: T0607300032
Contact Type: Regional Board Caseworker
Contact Name: UNASSIGNED

PIONEER MILLS (Continued) **U001572219**

Organization Name: SAN DIEGO RWQCB (REGION 9)
Address: 9174 SKY PARK COURT, SUITE 100
City: SAN DIEGO
Email: unassigned
Phone Number: Not reported

LUST:
Global Id: T0607300032
Action Type: ENFORCEMENT
Date: 1988-07-12 00:00:00
Action: Notice of Responsibility

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT1010
Local Case: H02919-001
Substance: Gasoline
Qty Leaked: 0
Abate Method: ETGT
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 06/28/1988
Date Stopped: 06/28/1988
Confirm Date: 06/28/1988
Submit Workplan: Not reported
Prelim Assess: 07/15/1988
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 07/15/1988
Enforce Date: Not reported
Closed Date: 2/12/93
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 904.52
GW Depth: 4’
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 1C
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

HIST UST:
Region: STATE
Facility ID: 00000018776
Facility Type: Other

PIONEER MILLS (Continued) **U001572219**

Other Type: FEED MANUFACTURE
Total Tanks: 0001
Contact Name: DEAN KRUM
Telephone: 6197445833
Owner Name: PIONEER MILLS
Owner Address: 1329 W. MISSION RD.
Owner City,St,Zip: SAN MARCOS, CA 92069

Tank Num: 001
Container Num: #1
Year Installed: 1973
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 3/16 inches
Leak Detection: Visual

SWEEPS UST:
Status: A
Comp Number: 2919
Number: 9
Board Of Equalization: 44-021755
Ref Date: Not reported
Act Date: 06-26-92
Created Date: 02-29-88
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: Not reported
Actv Date: Not reported
Capacity: Not reported
Tank Use: Not reported
Stg: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 2919
Number: Not reported
Board Of Equalization: 44-021755
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-002919-000001
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: OTHER
Number Of Tanks: 2

Status: Not reported
Comp Number: 2919
Number: Not reported
Board Of Equalization: 44-021755
Ref Date: Not reported

PIONEER MILLS (Continued) **U001572219**

Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-002919-000002
Actv Date:	Not reported
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

San Diego Co. HMMD:

Facility ID:	102919
Inactive Indicator:	Active
Business Code:	Not reported
SIC:	Not reported
Permit Expiration:	Not reported
Owner:	PIONEER MILLS
2nd Name:	Not reported
Mailing Address:	P.O. BOX P O BOX 21
Mailing City,St,Zip:	SAN MARCOS, CA 92069
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	Not reported
Census Tract Number:	200.0
EPA ID:	Not reported
Gas Station:	Not reported
Inspection Date:	Not reported
Reinspection Date:	Not reported
Inspector Name:	Not reported
Violation Notice Issued:	Not reported
Facility Contact:	Not reported
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	SCHREIBER DALE L&DONNA E TRS
Property Address:	7163 ARGONAUTA WAY
Property City,St,Zip:	CARLSBAD, CA 92009
Tank Owner:	PIONEER MILLS
Tank Address:	1329 W MISSION RD
Tank City,St,Zip:	San Marcos, CA 92069
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	619-744-5833

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported

PIONEER MILLS (Continued) **U001572219**

Carcinogen: No
1st Hazard Category: Not reported
2nd Hazard Category: Not reported

HMMD UNDERGROUND TANKS:
Tank Number: T001
Tank ID Number: #1
Waste or Product: 2000
Tank Contents: Not reported

Tank Number: T002
Tank ID Number: 2
Waste or Product: 2000
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: Not reported
Waste Code: Not reported
Occurrences: Not reported
Item Number: Not reported

HMMD WASTE STREAMS:
Inspection Date: Not reported
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: Not reported
Qnty at Inspection: Not reported
Quantity String: Not reported
Annual Qty: Not reported
Annual Qty String: Not reported
Measurement Unit: Not reported
Treatment Method: Not reported
Storage Method: Not reported
Haz Waste Hauler: Not reported
Waste Desc: Not reported
Carcinogen: No

SAN DIEGO CO. SAM:
Case Number: H02919-001
Agency: DEH Site Assessment & Mitigation
Funding: LOP - Federal Fund
FType: Drinking Water Aquifer Impacted
FStatus: 9
Date: 2/12/1993
Date Began: 6/28/1988

B7
West
< 1/8
0.116 mi.
613 ft.

Relative:
Lower

Actual:
571 ft.

PIONEER MILLS
1329 MISSION RD W
SAN MARCOS, CA 92069

Site 4 of 4 in cluster B

LUST **S105033851**
N/A

8
SE
1/8-1/4
0.142 mi.
751 ft.

Relative:
Lower

Actual:
570 ft.

PALOMAR COMMUNITY COLLEGE
1140 E MISSION RD
SAN MARCOS, CA 92069

RCRA-SQG **1000334331**
FINDS **CAD981583057**
NPDES
HIST CORTESE
LUST
UST
HIST UST
SWEEPS UST
San Diego Co. HMMD
HAZNET
SAN DIEGO CO. SAM

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	PALOMAR COMMUNITY COLLEGE
Facility address:	1140 E MISSION RD SAN MARCOS, CA 92069
EPA ID:	CAD981583057
Mailing address:	1140 W MISSION RD SAN MARCOS, CA 92069
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
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:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	PALOMAR COM COLLEGE
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Legal status: State
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

Historical Generators:
Date form received by agency: 09/01/1996
Facility name: PALOMAR COMMUNITY COLLEGE
Classification: Small Quantity Generator

Date form received by agency: 02/24/1992
Facility name: PALOMAR COMMUNITY COLLEGE
Classification: Large Quantity Generator

Date form received by agency: 01/15/1987
Facility name: PALOMAR COMMUNITY COLLEGE
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/12/2004
Date achieved compliance: 03/24/2004
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 05/23/1994
Date achieved compliance: 05/23/1999
Violation lead agency: State
Enforcement action: Not reported

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 05/24/1993
Date achieved compliance: 05/23/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 03/30/1992
Date achieved compliance: 05/24/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 02/12/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/24/2004
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 05/23/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/23/1999
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 05/24/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/23/1994
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 03/30/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Area of violation: Generators - General
Date achieved compliance: 05/24/1993
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110009537885

Environmental Interest/Information System

US Geographic Names Information System (GNIS) is the official vehicle for geographic names used by the federal government and the source for applying geographic names to federal maps and other printed and electronic documents.

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 corrective action activities required under RCRA.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	Not Available
Order No:	Not reported
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	9 37C309015
Program Type:	Construction
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	5/19/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	6/30/2010
Discharge Name:	Palomar College
Discharge Address:	1140 W Mission Rd
Discharge City:	San Marcos
Discharge State:	Ca
Discharge Zip:	92069

Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	Not Available
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	9 37C353620

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Program Type:	Construction
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	10/7/2008 9:06:00 AM
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Palomar Community College Dist
Discharge Address:	1140 W Mission Rd
Discharge City:	San Marcos
Discharge State:	Ca
Discharge Zip:	92069
Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	Not Available
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	9 37C359274
Program Type:	Construction
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	7/26/2010 1:45:00 PM
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Palomar Community College District
Discharge Address:	1140 West Mission Road
Discharge City:	San Marcos
Discharge State:	Ca
Discharge Zip:	92069
Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	Not Available
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	9 37C357415
Program Type:	Construction
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	2/23/2010 3:13:00 PM
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Palomar Community College District
Discharge Address:	1140 West Mission Road
Discharge City:	San Marcos
Discharge State:	Ca
Discharge Zip:	92069
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	Not Available
Order No:	Not reported

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	9 37C331194
Program Type:	Construction
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	11/23/2004
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	11/5/2007
Discharge Name:	Palomar College
Discharge Address:	1140 W Mission Rd
Discharge City:	San Marcos
Discharge State:	Ca
Discharge Zip:	92069

CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT1436

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT3872

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2643

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT34

LUST:

Region:	STATE
Global Id:	T0607300263
Latitude:	33.147312
Longitude:	-117.185293
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1991-04-02 00:00:00
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	KW
Local Agency:	Not reported
RB Case Number:	9UT1436
LOC Case Number:	H03452-001
File Location:	Local Agency
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:	T0607300263

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Contact Type: Regional Board Caseworker
Contact Name: UNASSIGNED
Organization Name: SAN DIEGO RWQCB (REGION 9)
Address: 9174 SKY PARK COURT, SUITE 100
City: SAN DIEGO
Email: unassigned
Phone Number: Not reported

LUST:
Global Id: T0607300263
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0607300263
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0607300263
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0607300263
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Began

Region: STATE
Global Id: T0607301391
Latitude: 33.147312
Longitude: -117.185293
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 1996-03-22 00:00:00
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: JB
Local Agency: Not reported
RB Case Number: 9UT2643
LOC Case Number: H03452-002
File Location: Local Agency
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: T0607301391
Contact Type: Regional Board Caseworker
Contact Name: UNASSIGNED
Organization Name: SAN DIEGO RWQCB (REGION 9)
Address: 9174 SKY PARK COURT, SUITE 100
City: SAN DIEGO
Email: unassigned

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Phone Number: Not reported

LUST:
Global Id: T0607301391
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0607301391
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0607301391
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0607301391
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Began

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT1436
Local Case: H03452-001
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Not reported
Cause: Not reported
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 05/26/1989
Date Stopped: 05/26/1989
Confirm Date: 06/07/1989
Submit Workplan: Not reported
Prelim Assess: 06/12/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 06/12/1989
Enforce Date: Not reported
Closed Date: 4/2/91
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 904.52
GW Depth: >21'
Beneficial Use: Municipal groundwater use

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Case Closed
Case Number: 9UT2643
Local Case: H03452-002
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Structure Failure
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 12/23/1993
Date Stopped: 12/23/1993
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 12/23/1993
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 12/29/1993
Enforce Date: Not reported
Closed Date: 3/22/96
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 904.52
GW Depth: 10’
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

UST:
Facility ID: 18663
Latitude: 33.14737
Longitude: -117.18588

HIST UST:
Region: STATE
Facility ID: 00000045743
Facility Type: Other
Other Type: COMMUNITY COLLEGE
Total Tanks: 0002

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Contact Name: TOM KNOX
Telephone: 6197441150
Owner Name: PALOMAR COMMUNITY COLLEGE
Owner Address: 1140 WEST MISSION ROAD
Owner City,St,Zip: SAN MARCOS, CA 92069

Tank Num: 001
Container Num: #2
Year Installed: 1979
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: #1
Year Installed: Not reported
Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

SWEEPS UST:
Status: A
Comp Number: 3452
Number: 9
Board Of Equalization: 44-021865
Ref Date: Not reported
Act Date: 06-26-92
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-003452-000003
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 1

Status: Not reported
Comp Number: 3452
Number: Not reported
Board Of Equalization: 44-021865
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-003452-000001
Actv Date: Not reported
Capacity: 2000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Number Of Tanks: 2

Status: Not reported
Comp Number: 3452
Number: Not reported
Board Of Equalization: 44-021865
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-003452-000002
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: WASTE
Number Of Tanks: Not reported

San Diego Co. HMMD:
Facility ID: 103452
Inactive Indicator: Active
Business Code: 6HK63
SIC: Not reported
Permit Expiration: Not reported
Owner: PALOMAR COMMUNITY COLLEGE
2nd Name: ATTN: KELLEY MACISAAC
Mailing Address: 1140 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 92069
Map Code/Business Plan on File: Not reported
Corporate Code: Not reported
Fire Dept District: San Marcos
Census Tract Number: 200.2
EPA ID: CAD981583057
Gas Station: Not reported
Inspection Date: 07/30/10
Reinspection Date: Not reported
Inspector Name: GGRIFFIT
Violation Notice Issued: Not reported
Facility Contact: KELLEY MACISAAC
Delinquent Flag: Not Delinquent
Last Update: 08/30/10
Last Delinquent Letter: Not reported
Delinquent Comment: Not reported
Last Letter Type: Not reported
Property Owner: PALOMAR COMMUNITY COLLEGE DIST
Property Address: Not reported
Property City,St,Zip: 00000
Tank Owner: Not reported
Tank Address: Not reported
Tank City,St,Zip: Not reported
Business Plan Acceptance Date: Not reported
Reinspection Date Y2K Compatible: 01/30/12
Facility Phone: 760-744-1150

HMMD DISCLOSURE INVENTORY:
Item Number: ACE

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Chemical Name:	ACETYLENE COMPRESSED GAS
Case Number:	74-86-2
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	FIRE
2nd Hazard Category:	PRESSURE RELEASE

Item Number:	AIR
Chemical Name:	AIR, COMPRESSED
Case Number:	132259-10-0
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	PRESSURE RELEASE
2nd Hazard Category:	Not reported

Item Number:	ARG
Chemical Name:	ARGON
Case Number:	7440-37-1
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	PRESSURE RELEASE
2nd Hazard Category:	Not reported

Item Number:	ARG
Chemical Name:	ARGON/C02 (CAS# 124-38-9)
Case Number:	7440-37-1
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	PRESSURE RELEASE
2nd Hazard Category:	Not reported

Item Number:	CAR
Chemical Name:	CARBON DIOXIDE COMPRESSED GAS
Case Number:	124-38-9
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	PRESSURE RELEASE

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

2nd Hazard Category: Not reported

Item Number: CAR
Chemical Name: CARCINOGENS &/OR REPRODUCTIVE TOXINS BELOW STATE DISCLOSURE AMTS ARE/MAY BE
Case Number: Not reported
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: Not reported
2nd Hazard Category: Not reported

Item Number: DIE
Chemical Name: DIESEL FUEL
Case Number: 68476-34-6
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: ACUTE

Item Number: FIX
Chemical Name: FIXER DEVELOPER CHEMICALS
Case Number: 7783-18-8
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: CHRONIC
2nd Hazard Category: Not reported

Item Number: HOT
Chemical Name: HOT TANK SOLUTION, 10% NAOH: AUTOSHOP
Case Number: 1310-73-2
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: ACUTE
2nd Hazard Category: Not reported

Item Number: LAT
Chemical Name: LATEX PAINT
Case Number: MIXTURE
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: ACUTE
2nd Hazard Category: Not reported

Item Number: OXY
Chemical Name: OXYGEN GAS
Case Number: 7782-44-7
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: PRESSURE RELEASE

Item Number: PRO
Chemical Name: PROPANE GAS
Case Number: 74-98-6
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: PRESSURE RELEASE

Item Number: SOD
Chemical Name: SODIUM-HYPOCHLORITE, 12.5% BLEACH
Case Number: 7681-52-9
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: REACTIVE
2nd Hazard Category: ACUTE

Item Number: SOL
Chemical Name: SOLVENT BASED PAINT AND VARNISHES
Case Number: MIXTURES
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: ACUTE

HMMD UNDERGROUND TANKS:
Tank Number: T001
Tank ID Number: 1

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Waste or Product: 2000
Tank Contents: Not reported

Tank Number: T002
Tank ID Number: 2
Waste or Product: 1000
Tank Contents: Not reported

Tank Number: T003
Tank ID Number: 3/AT4896
Waste or Product: 2000
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: 07/02/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 1892

Inspection Date: 07/02/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 1893

Inspection Date: 07/02/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 1894

Inspection Date: 04/05/06
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4533

Inspection Date: 04/05/06
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4534

Inspection Date: 03/01/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4804

Inspection Date: 03/01/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4805

Inspection Date: 03/01/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4806

Inspection Date: 03/01/05
Waste Code: Not reported
Occurrences: Not reported

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Item Number: 4807

Inspection Date: 03/01/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4808

Inspection Date: 03/01/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4809

Inspection Date: 02/21/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0223

Inspection Date: 02/21/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0224

Inspection Date: 02/21/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0225

Inspection Date: 02/21/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0226

Inspection Date: 02/21/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 0227

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7038

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7039

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7040

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7041

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7042

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7043

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7044

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7045

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7046

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7047

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7048

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7049

Inspection Date: 04/08/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7050

Inspection Date: 02/06/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2656

Inspection Date: 02/06/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2657

Inspection Date: 02/06/03
Waste Code: Not reported

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Occurrences: Not reported
Item Number: 2658

Inspection Date: 02/06/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2659

Inspection Date: 02/06/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2660

Inspection Date: 02/06/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2661

Inspection Date: 02/06/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2662

Inspection Date: 07/30/10
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6149

Inspection Date: 07/30/10
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6150

Inspection Date: 07/30/10
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6151

Inspection Date: 07/30/10
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6152

Inspection Date: 07/30/10
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6153

Inspection Date: 08/05/97
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4334

Inspection Date: 08/05/97
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4335

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Inspection Date: 08/05/97
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4336

Inspection Date: 08/05/97
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4337

Inspection Date: 02/12/04
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4358

Inspection Date: 02/12/04
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4359

Inspection Date: 02/12/04
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4360

Inspection Date: 02/12/04
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4361

HMMD WASTE STREAMS:
Inspection Date: 07/30/10
Waste Item #: 111
Waste Code: 111
Waste Name: ACID SOL'N WITH META
Qnty at Inspection: 300
Quantity String: 300
Annual Qty: 600
Annual Qty String: 600
Measurement Unit: LBS
Treatment Method: 015 TANK TREATMENT
Storage Method: PLASTIC DRUM
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: CORROSIVE WITH LEAD AND S
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 122
Waste Code: 122
Waste Name: ALKALINE SOL'N W/OUT
Qnty at Inspection: 5
Quantity String: 5
Annual Qty: 10
Annual Qty String: 10
Measurement Unit: GAL
Treatment Method: 015 TANK TREATMENT
Storage Method: PLASTIC DRUM

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: SODIUM HYDROXIDE (CAUSTIC
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 135
Waste Code: 135
Waste Name: UNSPECIFIED AQUEOUS
Qnty at Inspection: 368
Quantity String: 368
Annual Qty: 498
Annual Qty String: 498
Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: PROCESS EQUIPMENT
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: PARTS WASHER
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 181
Waste Code: 181
Waste Name: INORGANIC SOLID WAST
Qnty at Inspection: 600
Quantity String: 600
Annual Qty: 150
Annual Qty String: 150
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: METAL DRUM
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: WELDING BOOTH FILTERS
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 181
Waste Code: 181
Waste Name: INORGANIC SOLID WAST
Qnty at Inspection: 20
Quantity String: 20
Annual Qty: 20
Annual Qty String: 20
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: METAL DRUM
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: SANDBLAST DEBRIS
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 213
Waste Code: 213
Waste Name: HYDROCARBON SOLVENTS
Qnty at Inspection: 30
Quantity String: 30
Annual Qty: 89
Annual Qty String: 89

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: PROCESSING EQUIPMENT
Haz Waste Hauler: 1406 SAFETY-KLEEN
Waste Desc: 5(15 GALLON) 2(7 GALLON)
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 214
Waste Code: 214
Waste Name: UNSPEC SOLVENT MIXTU
Qnty at Inspection: 20
Quantity String: 20
Annual Qty: 20
Annual Qty String: 20
Measurement Unit: GAL
Treatment Method: 007 INCINERATION
Storage Method: METAL DRUM
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: SOLVENT
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 221
Waste Code: 221
Waste Name: WASTE OIL & MIXED OI
Qnty at Inspection: 400
Quantity String: 400
Annual Qty: 1300
Annual Qty String: 1300
Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: TOTE BIN
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: FAC MNT, T BLDG, N BLDG
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 311
Waste Code: 311
Waste Name: PHARMACEUTICAL WASTE
Qnty at Inspection: 1
Quantity String: 1
Annual Qty: 12
Annual Qty String: 12
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: Not reported
Haz Waste Hauler: 3400 STERICYCLE INC.
Waste Desc: Not reported
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 342
Waste Code: 342
Waste Name: ORGANIC LIQUIDS W/ME
Qnty at Inspection: 175

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Quantity String: 175
Annual Qty: 175
Annual Qty String: 175
Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: TOTE BIN
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: ANTIFREEZE
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 352
Waste Code: 352
Waste Name: ORGANIC SOLIDS (OTHE
Qnty at Inspection: 25
Quantity String: 25
Annual Qty: 25
Annual Qty String: 25
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: METAL DRUM
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: OILY SPILL DEBRIS
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 444
Waste Code: 444
Waste Name: USED BATTERIES
Qnty at Inspection: 180
Quantity String: 180
Annual Qty: 360
Annual Qty String: 360
Measurement Unit: LBS
Treatment Method: 444 BATTERIES RECYCL
Storage Method: UNKNOWN
Haz Waste Hauler: 9999 SELF:SMALL QTY EXEMP
Waste Desc: LEAD ACID BATTERIES
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 461
Waste Code: 461
Waste Name: PAINT SLUDGE
Qnty at Inspection: 55
Quantity String: 55
Annual Qty: 275
Annual Qty String: 275
Measurement Unit: GAL
Treatment Method: 007 INCINERATION
Storage Method: METAL DRUM
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: WASTE PAINT & RELATED MAT
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 541

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Waste Code: 541
Waste Name: PHOTOCHEM/PHOTOPROC
Qnty at Inspection: 63
Quantity String: 63
Annual Qty: 150
Annual Qty String: 150
Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: METAL DRUM
Haz Waste Hauler: 1406 SAFETY-KLEEN SYSTEMS
Waste Desc: 3 PHOTO LABS
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 551
Waste Code: 551
Waste Name: LABORATORY WASTE CHE
Qnty at Inspection: 50
Quantity String: 50
Annual Qty: 100
Annual Qty String: 100
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: PLASTIC DRUM
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: FORMALIN, ETHYLENE GLYCOL
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 551
Waste Code: 551
Waste Name: LABORATORY WASTE CHE
Qnty at Inspection: 50
Quantity String: 50
Annual Qty: 100
Annual Qty String: 100
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: METAL DRUM
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: FLAMMABLE, CORROSIVE LIQ
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 551
Waste Code: 551
Waste Name: LABORATORY WASTE CHE
Qnty at Inspection: 400
Quantity String: 400
Annual Qty: 800
Annual Qty String: 800
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: PLASTIC DRUM
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: ACIDIC, INORGANIC, CORROS
Carcinogen: No

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Inspection Date: 07/30/10
Waste Item #: 551
Waste Code: 551
Waste Name: LABORATORY WASTE CHE
Qnty at Inspection: 50
Quantity String: 50
Annual Qty: 100
Annual Qty String: 100
Measurement Unit: LBS
Treatment Method: 007 INCINERATION
Storage Method: CAN
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: OXIDIZING, TOXIC LIQ
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 725
Waste Code: 725
Waste Name: LIQUIDS W MERCURY -
Qnty at Inspection: 4
Quantity String: 4
Annual Qty: 7
Annual Qty String: 7
Measurement Unit: LBS
Treatment Method: 001 RECYCLE
Storage Method: CAN
Haz Waste Hauler: 4010 ENVIROSOLVE L.L.C.
Waste Desc: WASTE W/MERCURY
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 888
Waste Code: 888
Waste Name: USED OIL FILTERS
Qnty at Inspection: 400
Quantity String: 400
Annual Qty: 800
Annual Qty String: 800
Measurement Unit: LBS
Treatment Method: 888 FILTERS/METAL RE
Storage Method: METAL DRUM
Haz Waste Hauler: 0015 ASBURY ENVIRONMENTAL
Waste Desc: USED OIL FILTERS
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 901
Waste Code: 901
Waste Name: INFECTIOUS WASTE, GE
Qnty at Inspection: 5
Quantity String: 5
Annual Qty: 260
Annual Qty String: 260
Measurement Unit: LBS
Treatment Method: 101 AUTOCLAVE
Storage Method: BAG
Haz Waste Hauler: 3400 STERICYCLE INC.

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Waste Desc: LIFE SCI, HLTH SVCS/DENTA
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 902
Waste Code: 902
Waste Name: INFECTIOUS WASTE, SH
Qnty at Inspection: 4
Quantity String: 4
Annual Qty: 220
Annual Qty String: 220
Measurement Unit: LBS
Treatment Method: 101 AUTOCLAVE
Storage Method: BOX
Haz Waste Hauler: 3400 STERICYCLE INC.
Waste Desc: Not reported
Carcinogen: No

Inspection Date: 07/30/10
Waste Item #: 905
Waste Code: 905
Waste Name: INFECTIOUS WASTE, LA
Qnty at Inspection: 15
Quantity String: 15
Annual Qty: 780
Annual Qty String: 780
Measurement Unit: LBS
Treatment Method: 101 AUTOCLAVE
Storage Method: PLASTIC DRUM
Haz Waste Hauler: 3400 STERICYCLE INC.
Waste Desc: CULTURES
Carcinogen: No

HAZNET:
Year: 2009
Gepaid: CAD981583057
Contact: KELLEY HUDSON MACISAAC MANAGER
Telephone: 7607441150
Mailing Name: Not reported
Mailing Address: 1140 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 920691415
Gen County: San Diego
TSD EPA ID: ARD069748192
TSD County: 99
Waste Category: Laboratory waste chemicals
Disposal Method: INCINERATION--THERMAL DESTRUCTION OTHER THAN USE AS A FUEL
Tons: 0.001
Facility County: San Diego

Year: 2009
Gepaid: CAD981583057
Contact: KELLEY HUDSON MACISAAC MANAGER
Telephone: 7607441150
Mailing Name: Not reported
Mailing Address: 1140 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 920691415

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

Gen County: San Diego
TSD EPA ID: AZ0000337360
TSD County: 99
Waste Category: Laboratory waste chemicals
Disposal Method: METALS RECOVERY INCLUDING RETORING,SMELTING,CHEMICALS,ECT
Tons: 0.1225
Facility County: San Diego

Year: 2009
Gepaid: CAD981583057
Contact: KELLEY HUDSON MACISAAC MANAGER
Telephone: 7607441150
Mailing Name: Not reported
Mailing Address: 1140 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 920691415
Gen County: San Diego
TSD EPA ID: TXD077603371
TSD County: 99
Waste Category: Not reported
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.0035
Facility County: San Diego

Year: 2009
Gepaid: CAD981583057
Contact: KELLEY HUDSON MACISAAC MANAGER
Telephone: 7607441150
Mailing Name: Not reported
Mailing Address: 1140 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 920691415
Gen County: San Diego
TSD EPA ID: TXD077603371
TSD County: 99
Waste Category: Unspecified solvent mixture
Disposal Method: FUEL BLENDING PRIOR TO ENERGY RECOVERY AT ANOTHER SITE
Tons: 0.025
Facility County: San Diego

Year: 2009
Gepaid: CAD981583057
Contact: KELLEY HUDSON MACISAAC MANAGER
Telephone: 7607441150
Mailing Name: Not reported
Mailing Address: 1140 W MISSION RD
Mailing City,St,Zip: SAN MARCOS, CA 920691415
Gen County: San Diego
TSD EPA ID: AZR000035840
TSD County: 99
Waste Category: Laboratory waste chemicals
Disposal Method: Not reported
Tons: 0.015
Facility County: San Diego

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

PALOMAR COMMUNITY COLLEGE (Continued) **1000334331**

SAN DIEGO CO. SAM:
Case Number: H03452-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
FType: Soils Only
FStatus: 9
Date: 4/2/1991
Date Began: 6/7/1989

Case Number: H03452-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
FType: Soils Only
FStatus: 9
Date: 3/22/1996
Date Began: 12/23/1993

C9 **PACIFIC BELL** **RCRA-SQG** **1000250512**
SW **225 LOS POSAS** **FINDS** **CAT080030620**
1/8-1/4 **SAN MARCOS, CA 92069** **HIST UST**
0.163 mi. **HAZNET**
860 ft. **Site 1 of 5 in cluster C**

Relative:
Lower

Actual:
560 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 225 LOS POSAS
SAN MARCOS, CA 92069
EPA ID: CAT080030620
Mailing address: 525 B STREET ROOM 1346
SAN DIEGO, CA 92101
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
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED

PACIFIC BELL (Continued) **1000250512**

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: 02/23/1981
Facility name: PACIFIC BELL
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002955990

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 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.

HIST UST:
Region: STATE
Facility ID: 00000057717
Facility Type: Other
Other Type: SIC 4800

PACIFIC BELL (Continued) **1000250512**

Total Tanks: 0001
Contact Name: E.J.KOEHLER
Telephone: 4155426758
Owner Name: PACIFIC BELL
Owner Address: 370 THIRD STREET
Owner City,St,Zip: SAN FRANCISCO, CA 94107

Tank Num: 001
Container Num: 1
Year Installed: 1972
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

HAZNET:
Year: 2000
Gepaid: CAT080030620
Contact: PACIFIC BELL
Telephone: 9258236161
Mailing Name: Not reported
Mailing Address: PO BOX 5095 RM 3E000
Mailing City,St,Zip: SAN RAMON, CA 945830995
Gen County: San Diego
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Unspecified aqueous solution
Disposal Method: R01
Tons: .2293
Facility County: San Diego

Year: 2000
Gepaid: CAT080030620
Contact: PACIFIC BELL
Telephone: 9258236161
Mailing Name: Not reported
Mailing Address: PO BOX 5095 RM 3E000
Mailing City,St,Zip: SAN RAMON, CA 945830995
Gen County: San Diego
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Empty containers less than 30 gallons
Disposal Method: R01
Tons: .0500
Facility County: San Diego

Year: 2000
Gepaid: CAT080030620
Contact: PACIFIC BELL
Telephone: 9258236161
Mailing Name: Not reported
Mailing Address: PO BOX 5095 RM 3E000
Mailing City,St,Zip: SAN RAMON, CA 945830995
Gen County: San Diego
TSD EPA ID: CAD028409019
TSD County: Los Angeles

PACIFIC BELL (Continued) **1000250512**

Waste Category: Unspecified oil-containing waste
Disposal Method: T01
Tons: 6.2550
Facility County: San Diego

Year: 2000
Gepaid: CAT080030620
Contact: PACIFIC BELL
Telephone: 9258236161
Mailing Name: Not reported
Mailing Address: PO BOX 5095 RM 3E000
Mailing City,St,Zip: SAN RAMON, CA 945830995
Gen County: San Diego
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil
Disposal Method: R01
Tons: .0834
Facility County: San Diego

Year: 2000
Gepaid: CAT080030620
Contact: PACIFIC BELL
Telephone: 9258236161
Mailing Name: Not reported
Mailing Address: PO BOX 5095 RM 3E000
Mailing City,St,Zip: SAN RAMON, CA 945830995
Gen County: San Diego
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01
Tons: .0834
Facility County: San Diego

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

C10 **PACIFIC BELL SNMCCA11/DB151** **UST** **U003789294**
SW **225 N LAS POSAS RD** **SWEEPS UST** **N/A**
1/8-1/4 **SAN MARCOS, CA 92069** **San Diego Co. HMMD**
0.166 mi.
876 ft. **Site 2 of 5 in cluster C**

Relative:
Lower

Actual:
560 ft.

UST:
Facility ID: 18879
Latitude: 33.14733
Longitude: -117.18945

SWEEPS UST:
Status: A
Comp Number: 6360
Number: 9
Board Of Equalization: 44-001027
Ref Date: Not reported
Act Date: 06-26-92
Created Date: 02-29-88

PACIFIC BELL SNMCCA11/DB151 (Continued) **U003789294**

Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-006360-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: OTHER
Number Of Tanks: 1

San Diego Co. HMMD:
Facility ID: 106360
Inactive Indicator: Active
Business Code: 6HK52
SIC: Not reported
Permit Expiration: Not reported
Owner: PACIFIC BELL DBA AT&T (DB151)
2nd Name: C/O ENV. MGMT. RM 3E000T
Mailing Address: PO BOX 5095
Mailing City,St,Zip: SAN RAMON, CA 94583
Map Code/Business Plan on File: Not reported
Corporate Code: Not reported
Fire Dept District: San Marcos
Census Tract Number: 200.0
EPA ID: CAT080030620
Gas Station: Not reported
Inspection Date: 03/04/10
Reinspection Date: Not reported
Inspector Name: KBROWN6
Violation Notice Issued: Not reported
Facility Contact: GEORGE HART
Delinquent Flag: Not Delinquent
Last Update: 08/30/10
Last Delinquent Letter: Not reported
Delinquent Comment: Not reported
Last Letter Type: Not reported
Property Owner: Not reported
Property Address: Not reported
Property City,St,Zip: Not reported
Tank Owner: PACIFIC BELL
Tank Address: 2600 S CAMINO RAMON
Tank City,St,Zip: San Ramon, CA 94583
Business Plan Acceptance Date: Not reported
Reinspection Date Y2K Compatible: 03/04/11
Facility Phone: 949-551-7718

HMMD DISCLOSURE INVENTORY:
Item Number: DIE
Chemical Name: DIESEL UNDERGROUND TANK 106360 T002 DIESEL
Case Number: Not reported
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE

PACIFIC BELL SNMCCA11/DB151 (Continued) **U003789294**

2nd Hazard Category: Not reported

Item Number: SUL
Chemical Name: SULFURIC ACID BATTERY ELECTROLYTE
Case Number: 7664-93-9
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: REACTIVE
2nd Hazard Category: EXTREMELY HAZARDOUS

HMMD UNDERGROUND TANKS:
Tank Number: T001
Tank ID Number: D-80-1K
Waste or Product: 1000
Tank Contents: Not reported

Tank Number: T002
Tank ID Number: RT0968 DIE
Waste or Product: 5000
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: 06/01/05
Waste Code: Not reported
Occurrences: Not reported
Item Number: 7019

Inspection Date: 05/30/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6531

Inspection Date: 05/30/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6532

Inspection Date: 05/30/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6533

HMMD WASTE STREAMS:
Inspection Date: Not reported
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: Not reported
Qnty at Inspection: Not reported
Quantity String: Not reported
Annual Qty: Not reported
Annual Qty String: Not reported
Measurement Unit: Not reported

PACIFIC BELL SNMCCA11/DB151 (Continued) **U003789294**

Treatment Method: Not reported
Storage Method: Not reported
Haz Waste Hauler: Not reported
Waste Desc: Not reported
Carcinogen: No

C11 **TORREY CHEMICAL CO.** **ENVIROSTOR** **S101481993**
SW **217 LAS POSAS ROAD** **N/A**
1/8-1/4 **SAN MARCOS, CA 92069**
0.173 mi.
914 ft. **Site 3 of 5 in cluster C**

Relative:
Lower

Actual:
560 ft.

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: * MMONROY
Division Branch: Cleanup Cypress
Facility ID: 37510137
Site Code: Not reported
Assembly: 74
Senate: 38
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 1995-08-21 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 33.1469444444444
Longitude: -117.188888888889
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: 10003, 10067, 10097, 10193
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 37510137
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1994-10-25 00:00:00
Comments: CalSites Validation Program confirms NFA for DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1991-08-13 00:00:00
Comments: PA Report was reviewed by Region 4 staff. The site is located at 217 Las Posas R. between Mission Rd. & Hwy 78 in San Marcos. The area is industrial, but Palomar College is north of Mission Rd. Site includes 4,000 sf bldg., 2 small storage sheds, outdoor drum storage area, and

TORREY CHEMICAL CO. (Continued) **S101481993**

abandoned above ground storage tanks (550 gal.). Chemical company is still operating repackaging and storing various chemical products (Algi-gon pool treatment etc.). No sampling result were considered in EPA's PA. Staff recommends PEARM to de- termine if there is a problem DTSC should address.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1987-06-20 00:00:00
Comments: SITE SCREENING DONE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1983-05-11 00:00:00
Comments: FACILITY IDENTIFIED VIA DRIVEBY

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

C12 **TORREY CHEMICAL CO** **CERC-NFRAP** **1003879087**
SW **217 LAS POSAS RD** **CAD982360430**
1/8-1/4 **SAN MARCOS, CA 92069**
0.173 mi.
914 ft. **Site 4 of 5 in cluster C**

Relative:
Lower

Actual:
560 ft.

CERC-NFRAP:
Site ID: 0902600
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13051697.00000
Person ID: 9271184.00000

Contact Sequence ID: 13057773.00000
Person ID: 9270048.00000

Contact Sequence ID: 13088488.00000
Person ID: 13002167.00000

Contact Sequence ID: 13174405.00000
Person ID: 9270438.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 11/01/1987

TORREY CHEMICAL CO (Continued) **1003879087**

Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 03/19/1991
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 03/19/1991
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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13
SSW
1/8-1/4
0.184 mi.
970 ft.

CREST BEVERAGE
1152 ARMORLITE
SAN MARCOS, CA 94608

HIST CORTESE **S102428480**
LUST **N/A**
SWEEPS UST
San Diego Co. HMMD
SAN DIEGO CO. SAM

Relative:
Lower

Actual:
563 ft.

CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1422

LUST:
Region: STATE
Global Id: T0607300256
Latitude: 33.14619
Longitude: -117.185708
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 1990-05-31 00:00:00
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: DL
Local Agency: Not reported
RB Case Number: 9UT1422
LOC Case Number: H20781-001
File Location: Local Agency
Potential Media Affect: Aquifer 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: T0607300256
Contact Type: Regional Board Caseworker
Contact Name: UNASSIGNED
Organization Name: SAN DIEGO RWQCB (REGION 9)
Address: 9174 SKY PARK COURT, SUITE 100
City: SAN DIEGO
Email: unassigned
Phone Number: Not reported

LUST:
Global Id: T0607300256
Action Type: Other

CREST BEVERAGE (Continued) **S102428480**

Date: 1950-01-01 00:00:00
Action: Leak Discovery

Global Id: T0607300256
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Stopped

Global Id: T0607300256
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0607300256
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Began

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT1422
Local Case: H20781-001
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: No Action Required - incident is minor, requiring no remedial action
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Not reported
Cause: Not reported
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 03/27/1989
Date Stopped: 03/27/1989
Confirm Date: 03/27/1989
Submit Workplan: Not reported
Prelim Assess: 06/08/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 06/08/1989
Enforce Date: Not reported
Closed Date: 5/31/90
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 904.52
GW Depth: 10’
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: High priority
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

CREST BEVERAGE (Continued) **S102428480**

SWEEPS UST:

Status:	A
Comp Number:	20781
Number:	9
Board Of Equalization:	44-023328
Ref Date:	Not reported
Act Date:	06-26-92
Created Date:	02-29-88
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	Not reported
Actv Date:	Not reported
Capacity:	Not reported
Tank Use:	Not reported
Stg:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	20781
Number:	Not reported
Board Of Equalization:	44-023328
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-020781-000001
Actv Date:	Not reported
Capacity:	10000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	2

Status:	Not reported
Comp Number:	20781
Number:	Not reported
Board Of Equalization:	44-023328
Ref Date:	Not reported
Act Date:	Not reported
Created Date:	Not reported
Tank Status:	Not reported
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-020781-000002
Actv Date:	Not reported
Capacity:	5000
Tank Use:	M.V. FUEL
Stg:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

San Diego Co. HMMD:

Facility ID:	120781
Inactive Indicator:	Active
Business Code:	6HK15

CREST BEVERAGE (Continued) **S102428480**

SIC:	Not reported
Permit Expiration:	Not reported
Owner:	SAN DIEGO UNION TRIBUNE
2nd Name:	Not reported
Mailing Address:	350 CAMINO DE LA RE
Mailing City,St,Zip:	SAN DIEGO, CA 92108
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	San Marcos
Census Tract Number:	200.0
EPA ID:	CAL912495571
Gas Station:	Not reported
Inspection Date:	09/08/99
Reinspection Date:	Not reported
Inspector Name:	LEGACY
Violation Notice Issued:	Not reported
Facility Contact:	TONY DOUBEK
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	N L VENTURES VIII ARMORLITE L
Property Address:	8080 N CENTRAL EXPY
Property City,St,Zip:	DALLAS, TX 75206
Tank Owner:	ARMORLITE ASSOCIATES
Tank Address:	25255 CABOT RD #207
Tank City,St,Zip:	Laguna Niguel, CA 92677
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	858-752-6772

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported
2nd Hazard Category:	Not reported

HMMD UNDERGROUND TANKS:

Tank Number:	T001
Tank ID Number:	1
Waste or Product:	10000
Tank Contents:	Not reported

Tank Number:	T002
Tank ID Number:	2
Waste or Product:	5000
Tank Contents:	Not reported

CREST BEVERAGE (Continued) **S102428480**

HMMD VIOLATIONS:

Inspection Date:	12/19/95
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	9338
Inspection Date:	12/19/95
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	9339
Inspection Date:	12/19/95
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	9340
Inspection Date:	07/03/97
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	3802
Inspection Date:	07/03/97
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	3803
Inspection Date:	07/03/97
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	3804

HMMD WASTE STREAMS:

Inspection Date:	Not reported
Waste Item #:	Not reported
Waste Code:	Not reported
Waste Name:	Not reported
Qnty at Inspection:	Not reported
Quantity String:	Not reported
Annual Qty:	Not reported
Annual Qty String:	Not reported
Measurement Unit:	Not reported
Treatment Method:	Not reported
Storage Method:	Not reported
Haz Waste Hauler:	Not reported
Waste Desc:	Not reported
Carcinogen:	No

SAN DIEGO CO. SAM:

Case Number:	H20781-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
FType:	Drinking Water Aquifer Impacted
FStatus:	9
Date:	5/31/1990
Date Began:	11/15/1988

C14 **COCA COLA ENTERPISES** **SLIC** **S106716295**
SW **NONE LAS POSAS/ARMORLITE** **N/A**
1/8-1/4 **SAN MARCOS, CA 92069**
0.188 mi.
992 ft. **Site 5 of 5 in cluster C**

Relative:
Lower

Actual:
560 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	1997-07-31 00:00:00
Global Id:	T0608184290
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H36816-001
Latitude:	Not reported
Longitude:	Not reported
Case Type:	Cleanup Program Site
Case Worker:	JS
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	* Chlorinated Hydrocarbons
Site History:	Not reported

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

D15 **COCA COLA ENTERPISES** **SAN DIEGO CO. SAM** **S109277043**
SW **LAS POSAS/ARMORLITE** **N/A**
1/8-1/4 **SAN MARCOS, CA 92069**
0.190 mi.
1005 ft. **Site 1 of 3 in cluster D**

Relative:
Lower

Actual:
560 ft.

SAN DIEGO CO. SAM:

Case Number:	H36816-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
FType:	Drinking Water Aquifer Impacted
FStatus:	9
Date:	7/31/1997
Date Began:	Not reported

D16 **SIGNET ARMORLITE** **RCRA-TSDF** **1000314091**
SW **130 N BINGHAM DR** **CERC-NFRAP** **CAD008362634**
1/8-1/4 **SAN MARCOS, CA 92069** **CORRACTS**
0.192 mi. **RCRA-LQG**
1014 ft. **Site 2 of 3 in cluster D** **FINDS**
NPDES

Relative:
Lower

HIST CORTESE
LUST
SLIC

Actual:
560 ft.

San Diego Co. HMMD
HAZNET
EMI
SAN DIEGO CO. SAM
ENVIROSTOR
HWP

RCRA-TSDF:

SIGNET ARMORLITE (Continued) **1000314091**

Date form received by agency:	02/01/2010
Facility name:	SIGNET ARMORLITE, INC.
Facility address:	1001 ARMORLITE DRIVE SAN MARCOS, CA 92060
EPA ID:	CAD008362634
Mailing address:	ARMORLITE DRIVE SAN MARCOS, CA 92069
Contact:	GREGORY M SALO
Contact address:	ARMORLITE DRIVE SAN MARCOS, CA 92069
Contact country:	US
Contact telephone:	(760) 744-4000
Telephone ext.:	310
Contact email:	GSALO@SIGNETARMORLITE.COM
EPA Region:	09
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	ARMORLITE S.P.A.
Owner/operator address:	ARMORLITE DRIVE SAN MARCOS, CA 92069
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/01/1997
Owner/Op end date:	Not reported

Owner/operator name:	SIGNET ARMORLITE INC
Owner/operator address:	1001 ARMORLITE DR SAN MARCOS, CA 92069
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 744-4000
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	INDUSTRIE OTTICHE EUROPEE
Owner/operator address:	VIA XX SETTEMBRE 12 MILANO ITALY, CA 99999

SIGNET ARMORLITE (Continued) **1000314091**

Owner/operator country: Not reported
Owner/operator telephone: 392480591
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ARMORLITE S.P.A
Owner/operator address: ARMORLITE DRIVE
SAN MARCOS, CA 92069
Owner/operator country: US
Owner/operator telephone: (760) 744-4000
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/01/1997
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: 06/16/2008
Facility name: SIGNET ARMORLITE, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/10/2004
Facility name: SIGNET ARMORLITE, INC.
Classification: Small Quantity Generator

Date form received by agency: 03/10/2004
Facility name: SIGNET ARMORLITE, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/27/2002
Facility name: SIGNET ARMORLITE, INC.
Site name: SIGNET ARMORLITE INC.
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Facility name: SIGNET ARMORLITE, INC.
Site name: SIGNET ARMORLITE
Classification: Large Quantity Generator

SIGNET ARMORLITE (Continued) **1000314091**

Date form received by agency: 03/04/1999
Facility name: SIGNET ARMORLITE, INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Facility name: SIGNET ARMORLITE, INC.
Site name: SIGNET ARMORLITE INC
Classification: Large Quantity Generator

Date form received by agency: 02/26/1996
Facility name: SIGNET ARMORLITE, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/09/1994
Facility name: SIGNET ARMORLITE, INC.
Site name: SIGNET ARMORLITE INC
Classification: Large Quantity Generator

Date form received by agency: 05/13/1993
Facility name: SIGNET ARMORLITE, INC.
Site name: SIGNET ARMORLITE INC
Classification: Large Quantity Generator

Date form received by agency: 02/24/1992
Facility name: SIGNET ARMORLITE, INC.
Classification: Large Quantity Generator

Date form received by agency: 04/13/1990
Facility name: SIGNET ARMORLITE, INC.
Site name: SIGNET ARMORLITE INC
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 122
Waste name: 122

Waste code: 352
Waste name: 352

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: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

SIGNET ARMORLITE (Continued) **1000314091**

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:
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.
Amount (Lbs): 2400

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 25456.9

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 2400

Corrective Action Summary:
Event date: 08/08/1991
Event: CA029ST

Event date: 08/08/1991
Event: RFA Completed, Assessment was an RFA.

SIGNET ARMORLITE (Continued) **1000314091**

Event date: 08/08/1991
Event: CA049PA

Event date: 08/08/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 01/15/1992
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 01/31/1992
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event date: 01/01/1996
Event: Stabilization Measures Implemented, Groundwater extraction and treatment (e.g., to achieve groundwater containment, to achieve MCL).

Event date: 01/01/1996
Event: Stabilization Measures Implemented, Primary measure is source removal and/or treatment (e.g., soil or waste excavation, in-situ soil treatment, off-site treatment).

Event date: 12/15/1997
Event: CA Responsibility Referred To A Non-RCRA Federal Authority

Event date: 12/15/1997
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 12/15/1997
Event: Igration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 09/08/2003
Date achieved compliance: 10/27/2005
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/22/1993
Date achieved compliance: 07/22/1998
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.170-177.I
Area of violation: TSD - General
Date violation determined: 04/20/1992
Date achieved compliance: 09/10/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 04/20/1992
Date achieved compliance: 09/10/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.40-43.D
Area of violation: Generators - General
Date violation determined: 04/20/1992
Date achieved compliance: 09/10/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Paid penalty amount: Not reported

Regulation violated: FR - 264.110-120.G
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 04/20/1992
Date achieved compliance: 09/10/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.10-18.B
Area of violation: TSD - General
Date violation determined: 04/20/1992
Date achieved compliance: 09/10/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 03/07/1991
Date achieved compliance: 03/13/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 01/17/1990
Date achieved compliance: 03/07/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/26/1988
Date achieved compliance: 04/26/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 02/01/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 30000
Final penalty amount: 30000
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 01/26/1988
Date achieved compliance: 04/26/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/24/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 01/21/1988
Date achieved compliance: 07/25/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 01/21/1988
Date achieved compliance: 07/25/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/05/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.110-120.G

SIGNET ARMORLITE (Continued) **1000314091**

Area of violation: TSD - Closure/Post-Closure
Date violation determined: 10/21/1987
Date achieved compliance: 09/10/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/22/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 10/21/1987
Date achieved compliance: 03/13/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/22/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/27/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 10/27/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: Local

Evaluation date: 09/08/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/27/2005
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 07/22/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/22/1998
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/21/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SIGNET ARMORLITE (Continued) **1000314091**

Evaluation date: 03/13/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 09/10/1992
Evaluation lead agency: State

Evaluation date: 03/13/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/10/1992
Evaluation lead agency: State

Evaluation date: 03/13/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 09/10/1992
Evaluation lead agency: State

Evaluation date: 03/07/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/13/1992
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/17/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/1991
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/26/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 04/26/1989
Evaluation lead agency: State

Evaluation date: 01/21/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 07/25/1988
Evaluation lead agency: State

Evaluation date: 10/21/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/13/1992
Evaluation lead agency: State

Evaluation date: 10/21/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 09/10/1992
Evaluation lead agency: State

CERC-NFRAP:
Site ID: 0900209
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL

SIGNET ARMORLITE (Continued) **1000314091**

Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13050789.00000
Person ID: 9271184.00000

Contact Sequence ID: 13056867.00000
Person ID: 9270048.00000

Contact Sequence ID: 13087570.00000
Person ID: 13002167.00000

Contact Sequence ID: 13175761.00000
Person ID: 9270438.00000

Program Priority:
Description: RCRA Deferral - Lead Confirmed

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 03/01/1991
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 08/26/1991
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 01/23/1996
Priority Level: Not reported

CORRACTS:

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 01/01/1996
Action: CA600SR - Stabilization Measures Implemented, Primary measure is source removal and/or treatment
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 01/01/1996
Action: CA600GW - Stabilization Measures Implemented, Groundwater extraction and treatment
NAICS Code(s): 326199
All Other Plastics Product Manufacturing

SIGNET ARMORLITE (Continued) **1000314091**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 01/15/1992
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 01/31/1992
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 08/08/1991
Action: CA049PA
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 08/08/1991
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 08/08/1991
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority

SIGNET ARMORLITE (Continued) **1000314091**

NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 08/08/1991
Action: CA029ST
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 12/15/1997
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 12/15/1997
Action: CA750NO - Migration of Contaminated Groundwater under Control, Unacceptable migration of contaminated groundwater is observed or expected
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD008362634
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 12/15/1997
Action: CA210 - CA Responsibility Referred To A Non-RCRA Federal Authority
NAICS Code(s): 326199
All Other Plastics Product Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

FINDS:

Registry ID: 110000478689

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for

SIGNET ARMORLITE (Continued) **1000314091**

information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

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.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

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.

NPDES:

Npdes Number:	CAS00001
Facility Status:	Active
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	Not Available
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not Available
WDID:	9 37I001658
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	N/A
Effective Date Of Regulatory Measure:	3/27/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Signet Armorlite Inc
Discharge Address:	1001 Armorlite Dr
Discharge City:	San Marcos
Discharge State:	Ca
Discharge Zip:	92069

CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT493

SIGNET ARMORLITE (Continued) **1000314091**

LUST:

Region:	STATE
Global Id:	T0607302793
Latitude:	33.1444595432761
Longitude:	-117.185845971107
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	1986-09-22 00:00:00
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	KH
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT493
LOC Case Number:	H02662-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

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

LUST:

Global Id:	T0607302793
Contact Type:	Local Agency Caseworker
Contact Name:	KEVIN HEATON
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	kevin.heaton@sdcounty.ca.gov
Phone Number:	Not reported

Global Id:	T0607302793
Contact Type:	Regional Board Caseworker
Contact Name:	UNASSIGNED
Organization Name:	SAN DIEGO RWQCB (REGION 9)
Address:	9174 SKY PARK COURT, SUITE 100
City:	SAN DIEGO
Email:	unassigned
Phone Number:	Not reported

LUST:

Global Id:	T0607302793
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Discovery

Global Id:	T0607302793
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Reported

Global Id:	T0607302793
Action Type:	Other
Date:	1950-01-01 00:00:00
Action:	Leak Began

SIGNET ARMORLITE (Continued) **1000314091**

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT493
Local Case:	H02662-001
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Tank
Cause:	Corrosion
Lead Agency:	Local Agency
Case Type:	Aquifer affected
Date Found:	08/22/1986
Date Stopped:	/ /
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	08/26/1986
Enforce Date:	Not reported
Closed Date:	9/22/86
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	904.52
GW Depth:	6 ft
Beneficial Use:	Municipal groundwater use
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	2006-03-30 00:00:00
Global Id:	SL209154190
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number:	H02662-001
Latitude:	33.1441630972526
Longitude:	-117.185829877853
Case Type:	Cleanup Program Site
Case Worker:	REP
Local Agency:	Not reported
RB Case Number:	2091500
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	1,1,1-Trichloroethane (TCA), Acetone, Benzene, Other Chlorinated Hydrocarbons, Tetrachloroethylene (PCE), Trichloroethylene (TCE),

SIGNET ARMORLITE (Continued) **1000314091**

Freon, Diesel, Gasoline
Site History: Not reported

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

San Diego Co. HMMD:

Facility ID:	102662
Inactive Indicator:	Active
Business Code:	6HK67
SIC:	Not reported
Permit Expiration:	Not reported
Owner:	ARMORLITE S.P.A.
2nd Name:	Not reported
Mailing Address:	1001 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 92069
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	San Marcos
Census Tract Number:	200.0
EPA ID:	CAD008362634
Gas Station:	Not reported
Inspection Date:	11/04/09
Reinspection Date:	Not reported
Inspector Name:	GGRIFFIT
Violation Notice Issued:	Not reported
Facility Contact:	GREG SALO
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	MILANO HOLDINGS INC
Property Address:	1001 ARMORLITE DR
Property City,St,Zip:	SAN MARCOS, CA 92069
Tank Owner:	JEPSON CORP
Tank Address:	340 W BUTTERFIELD RD
Tank City,St,Zip:	Elmhurst, IL 60126
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	05/04/11
Facility Phone:	760-744-4000

HMMD DISCLOSURE INVENTORY:

Item Number:	ACE
Chemical Name:	ACETONE
Case Number:	67-64-1
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	FIRE
2nd Hazard Category:	ACUTE

Item Number:	ARG
Chemical Name:	ARGON, HELIUM COMPRESSED GAS :
Case Number:	7440-37-1

SIGNET ARMORLITE (Continued) **1000314091**

Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: PRESSURE RELEASE
2nd Hazard Category: Not reported

Item Number: CAR
Chemical Name: CARCINOGENS &/OR REPRODUCTIVE TOXINS BELOW STATE DISCLOSURE AMTS ARE/MAY BE
Case Number: Not reported
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: Not reported
2nd Hazard Category: Not reported

Item Number: D-L
Chemical Name: D-LIMONENE
Case Number: 5989-27-5
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: ACUTE

Item Number: ETH
Chemical Name: ETHYL ALCOHOL
Case Number: 64-17-5
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: Not reported

Item Number: ETH
Chemical Name: ETHYLENE GLYCOL : ANTICONGELANTE
Case Number: 107-21-1
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: CHRONIC
2nd Hazard Category: Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Item Number:	MET
Chemical Name:	METHYL ALCOHOL
Case Number:	67-56-1
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	FIRE
2nd Hazard Category:	ACUTE

Item Number:	NIT
Chemical Name:	NITROGEN
Case Number:	7727-37-9
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	PRESSURE RELEASE
2nd Hazard Category:	Not reported

Item Number:	OIL
Chemical Name:	OIL LUBRICATING PETROLEUM
Case Number:	64742-54-7
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	FIRE
2nd Hazard Category:	ACUTE

Item Number:	OXY
Chemical Name:	OXYGEN, COMPRESSED GAS :
Case Number:	7782-44-7
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	PRESSURE RELEASE
2nd Hazard Category:	REACTIVE

Item Number:	POT
Chemical Name:	POTASSIUM HYDROXIDE : STRIPPER 4C
Case Number:	1310-58-3
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No

SIGNET ARMORLITE (Continued) **1000314091**

1st Hazard Category: ACUTE
2nd Hazard Category: CHRONIC

Item Number: PRO
Chemical Name: PROPANE
Case Number: 74-98-6
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: FIRE
2nd Hazard Category: Not reported

Item Number: VIT
Chemical Name: VITEC 3000 ANTISCALANT
Case Number: Not reported
Quantity Stored At One Time: Not reported
Quantity Stored at One Time: Not reported
Annual Quantity String: Not reported
Annual Quantity String: Not reported
Measurement Units: Not reported
Carcinogen: No
1st Hazard Category: ACUTE
2nd Hazard Category: Not reported

HMMD UNDERGROUND TANKS:
Tank Number: T001
Tank ID Number: AT5037
Waste or Product: 100
Tank Contents: Not reported

Tank Number: T002
Tank ID Number: AT1757- CO
Waste or Product: 1250
Tank Contents: Not reported

Tank Number: T003
Tank ID Number: AT0385
Waste or Product: 3000
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: 10/08/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4993

Inspection Date: 10/08/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4994

Inspection Date: 10/08/99
Waste Code: Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Occurrences: Not reported
Item Number: 4995

Inspection Date: 10/08/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4996

Inspection Date: 10/08/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4997

Inspection Date: 10/08/99
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4998

Inspection Date: 10/24/00
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4885

Inspection Date: 10/24/00
Waste Code: Not reported
Occurrences: Not reported
Item Number: 4886

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3697

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3698

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3699

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3700

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3701

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 3702

SIGNET ARMORLITE (Continued) **1000314091**

Inspection Date: 06/13/07
Waste Code: Not reported
Occurrences: Not reported
Item Number: 2120

Inspection Date: 08/02/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6152

Inspection Date: 08/02/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6153

Inspection Date: 08/02/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6154

Inspection Date: 08/02/02
Waste Code: Not reported
Occurrences: Not reported
Item Number: 6155

Inspection Date: 11/04/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9932

Inspection Date: 11/04/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9933

Inspection Date: 11/04/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9934

Inspection Date: 11/04/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9935

Inspection Date: 11/04/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9936

Inspection Date: 11/04/09
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9937

Inspection Date: 11/04/09
Waste Code: Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Occurrences: Not reported
Item Number: 1238

Inspection Date: 09/08/03
Waste Code: Not reported
Occurrences: Not reported
Item Number: 9700

HMMD WASTE STREAMS:
Inspection Date: 11/04/09
Waste Item #: 122
Waste Code: 122
Waste Name: ALKALINE SOL'N W/OUT
Qnty at Inspection: 1760
Quantity String: 1760
Annual Qty: 1760
Annual Qty String: 1760
Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: PLASTIC DRUM
Haz Waste Hauler: 0063 UNITED PUMPING SERVI
Waste Desc: 4-C STRIPPER SOLUTION - P
Carcinogen: No

Inspection Date: 11/04/09
Waste Item #: 135
Waste Code: 135
Waste Name: UNSPECIFIED AQUEOUS
Qnty at Inspection: 10
Quantity String: 10
Annual Qty: 10
Annual Qty String: 10
Measurement Unit: GAL
Treatment Method: 014 TRANSFER STATION
Storage Method: METAL DRUM
Haz Waste Hauler: 5508 ENVIRONMENTAL LOGIST
Waste Desc: DYE
Carcinogen: No

Inspection Date: 11/04/09
Waste Item #: 135
Waste Code: 135
Waste Name: UNSPECIFIED AQUEOUS
Qnty at Inspection: 15
Quantity String: 15
Annual Qty: 115
Annual Qty String: 115
Measurement Unit: GAL
Treatment Method: 014 TRANSFER STATION
Storage Method: METAL DRUM
Haz Waste Hauler: 5508 ENVIRONMENTAL LOGIST
Waste Desc: Not reported
Carcinogen: No

Inspection Date: 11/04/09
Waste Item #: 181
Waste Code: 181

SIGNET ARMORLITE (Continued) **1000314091**

Waste Name:	INORGANIC SOLID WAST
Qnty at Inspection:	895
Quantity String:	895
Annual Qty:	895
Annual Qty String:	895
Measurement Unit:	LBS
Treatment Method:	014 TRANSFER STATION
Storage Method:	PLASTIC DRUM
Haz Waste Hauler:	5508 ENVIRONMENTAL LOGIST
Waste Desc:	4-C STRIPPER DEBRIS - POT
Carcinogen:	No

Inspection Date:	11/04/09
Waste Item #:	212
Waste Code:	212
Waste Name:	OXYGENATED SOLVENTS
Qnty at Inspection:	935
Quantity String:	935
Annual Qty:	1650
Annual Qty String:	1650
Measurement Unit:	GAL
Treatment Method:	007 INCINERATION
Storage Method:	METAL DRUM
Haz Waste Hauler:	5508 ENVIRONMENTAL LOGIST
Waste Desc:	WASTE ACETONE
Carcinogen:	No

Inspection Date:	11/04/09
Waste Item #:	221
Waste Code:	221
Waste Name:	WASTE OIL & MIXED OI
Qnty at Inspection:	35
Quantity String:	35
Annual Qty:	35
Annual Qty String:	35
Measurement Unit:	GAL
Treatment Method:	001 RECYCLE
Storage Method:	METAL DRUM
Haz Waste Hauler:	5508 ENVIRONMENTAL LOGIST
Waste Desc:	WASTE OIL
Carcinogen:	No

Inspection Date:	11/04/09
Waste Item #:	272
Waste Code:	272
Waste Name:	POLYMERIC RESIN WAST
Qnty at Inspection:	5
Quantity String:	5
Annual Qty:	50
Annual Qty String:	50
Measurement Unit:	TON
Treatment Method:	003 LANDFILL
Storage Method:	BOX
Haz Waste Hauler:	3720 BDC SPECIAL WASTE SE
Waste Desc:	MONOMER/RAGS/DEBRI
Carcinogen:	No

SIGNET ARMORLITE (Continued) **1000314091**

Inspection Date:	11/04/09
Waste Item #:	352
Waste Code:	352
Waste Name:	ORGANIC SOLIDS (OTHE
Qnty at Inspection:	320
Quantity String:	320
Annual Qty:	3200
Annual Qty String:	3200
Measurement Unit:	LBS
Treatment Method:	014 TRANSFER STATION
Storage Method:	METAL DRUM
Haz Waste Hauler:	5508 ENVIRONMENTAL LOGIST
Waste Desc:	ACETONE WIPES
Carcinogen:	No

Inspection Date:	11/04/09
Waste Item #:	791
Waste Code:	791
Waste Name:	LIQUIDS WITH PH <OR=
Qnty at Inspection:	15
Quantity String:	15
Annual Qty:	15
Annual Qty String:	15
Measurement Unit:	GAL
Treatment Method:	001 RECYCLE
Storage Method:	PLASTIC DRUM
Haz Waste Hauler:	5508 ENVIRONMENTAL LOGIST
Waste Desc:	50% ACETIC ACID
Carcinogen:	No

HAZNET:

Year:	2009
Gepaid:	CAD008362634
Contact:	GREGORY SALO/EH&S MGR
Telephone:	7607444000
Mailing Name:	Not reported
Mailing Address:	1001 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 920691431
Gen County:	San Diego
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Alkaline solution without metals pH >= 12.5
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	12.3432
Facility County:	San Diego

Year:	2009
Gepaid:	CAD008362634
Contact:	GREGORY SALO/EH&S MGR
Telephone:	7607444000
Mailing Name:	Not reported
Mailing Address:	1001 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 920691431
Gen County:	San Diego
TSD EPA ID:	CAT000646117

SIGNET ARMORLITE (Continued) **1000314091**

TSD County:	Kings
Waste Category:	Other inorganic solid waste
Disposal Method:	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)
Tons:	299.194
Facility County:	San Diego
Year:	2009
Gepaid:	CAD008362634
Contact:	GREGORY SALO/EH&S MGR
Telephone:	7607444000
Mailing Name:	Not reported
Mailing Address:	1001 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 920691431
Gen County:	San Diego
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Other inorganic solid waste
Disposal Method:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.2475
Facility County:	San Diego
Year:	2009
Gepaid:	CAD008362634
Contact:	GREGORY SALO/EH&S MGR
Telephone:	7607444000
Mailing Name:	Not reported
Mailing Address:	1001 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 920691431
Gen County:	San Diego
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Unspecified aqueous solution
Disposal Method:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.357
Facility County:	San Diego
Year:	2008
Gepaid:	CAD008362634
Contact:	GREGORY SALO/EH&S MGR
Telephone:	7607444000
Mailing Name:	Not reported
Mailing Address:	1001 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 920691431
Gen County:	San Diego
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Unspecified aqueous solution
Disposal Method:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.525
Facility County:	San Diego

SIGNET ARMORLITE (Continued) **1000314091**

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

EMI:

Year:	1997
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	42
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	42
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	42
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	37

SIGNET ARMORLITE (Continued) **1000314091**

Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	42
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20
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:	2002
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20
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:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported

SIGNET ARMORLITE (Continued) **1000314091**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20
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:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20.256239
Reactive Organic Gases Tons/Yr:	0.405522
Carbon Monoxide Emissions Tons/Yr:	0.008736
NOX - Oxides of Nitrogen Tons/Yr:	0.0104
SOX - Oxides of Sulphur Tons/Yr:	0.0000624
Particulate Matter Tons/Yr:	0.0007904
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.0007904

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	20.19114
Reactive Organic Gases Tons/Yr:	17.165132
Carbon Monoxide Emissions Tons/Yr:	.00874
NOX - Oxides of Nitrogen Tons/Yr:	.01
SOX - Oxides of Sulphur Tons/Yr:	.0000624
Particulate Matter Tons/Yr:	.00079
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.00079

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	172
Air District Name:	SD
SIC Code:	3851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12.98068055
Reactive Organic Gases Tons/Yr:	11.064925775
Carbon Monoxide Emissions Tons/Yr:	.00628998
NOX - Oxides of Nitrogen Tons/Yr:	.0116351
SOX - Oxides of Sulphur Tons/Yr:	.00004161

SIGNET ARMORLITE (Continued) **1000314091**

Particulate Matter Tons/Yr: .00058958
Part. Matter 10 Micrometers & Smllr Tons/Yr: .00058958

Year: 2007
County Code: 37
Air Basin: SD
Facility ID: 172
Air District Name: SD
SIC Code: 3851
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 9.110686
Reactive Organic Gases Tons/Yr: 7.786267
Carbon Monoxide Emissions Tons/Yr: .006291
NOX - Oxides of Nitrogen Tons/Yr: .01164
SOX - Oxides of Sulphur Tons/Yr: .0000416
Particulate Matter Tons/Yr: .0005899
Part. Matter 10 Micrometers & Smllr Tons/Yr: .0005899

Year: 2007
County Code: 37
Air Basin: SD
Facility ID: 172
Air District Name: SD
SIC Code: 3851
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 12.980686
Reactive Organic Gases Tons/Yr: 11.064931
Carbon Monoxide Emissions Tons/Yr: .006291
NOX - Oxides of Nitrogen Tons/Yr: .01164
SOX - Oxides of Sulphur Tons/Yr: .0000416
Particulate Matter Tons/Yr: .0005899
Part. Matter 10 Micrometers & Smllr Tons/Yr: .0005899

SAN DIEGO CO. SAM:
Case Number: H02662-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
FType: Soils Only
FStatus: 9
Date: 9/22/1986
Date Began: 8/26/1986

Case Number: H02662-002
Agency: CA Regional Water Quality Control Board
Funding: **Non Billable**
FType: Drinking Water Aquifer Impacted
FStatus: 1
Date: 9/15/1993
Date Began: 9/15/1993

ENVIROSTOR:
Site Type: Corrective Action

SIGNET ARMORLITE (Continued) **1000314091**

Site Type Detailed: Corrective Action
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: WM
Program Manager: Not reported
Supervisor: * Unknown
Division Branch: Cleanup Cypress
Facility ID: 80001570
Site Code: 400252
Assembly: 74
Senate: 38
Special Program: Not reported
Status: Inactive - Needs Evaluation
Status Date: 2010-11-10 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 33.144906
Longitude: -117.184376
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD008362634
Alias Type: EPA Identification Number
Alias Name: 400252
Alias Type: Project Code (Site Code)
Alias Name: 80001570
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ENTIRE FACILITY
Completed Document Type: Interim Measures Workplan
Completed Date: 1996-01-01 00:00:00
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ENTIRE FACILITY
Completed Document Type: Preliminary Assessment Report
Completed Date: 1991-08-08 00:00:00
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ENTIRE FACILITY
Completed Document Type: Interim Measures Workplan
Completed Date: 1996-01-01 00:00:00
Comments: Not reported

Completed Area Name: Sites With No Operable Unit
Completed Sub Area Name: ENTIRE FACILITY
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 1991-08-08 00:00:00
Comments: Not reported

Completed Area Name: Sites With No Operable Unit

SIGNET ARMORLITE (Continued) **1000314091**

Completed Sub Area Name: ENTIRE FACILITY
Completed Document Type: Interim Measures Questionnaire
Completed Date: 1992-01-31 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 1995-04-10 00:00:00
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

HWP:
EPA Id: CAD008362634
Latitude: 33.144906
Longitude: -117.184376
Facility Type: HAZ WASTE - NON-OPERATING
Cleanup Status: Not reported
Region: CYPRESS, GEOLOGY CAL SUPPORT
Permit Maintenance Lead: Not reported
Permit Renewal Lead: Not reported
Corrective Action Lead: Not reported
Supervisor: Not reported
Site Code: 400252
Assembly District: 74
Senate District: 38
Public Information Officer: Not reported
Facility Status: WB Lead Agency for corrective action: Signet Armorlite Inc. (SAI) is located at 1001 Armorlite Drive, San Marcos, in northern San Diego County. Land use in the immediate vicinity is industrial. An Interim Status Document was issued to the facility by the U.S. EPA on January 4, 1982, for storage and treatment of these RCRA units: (1) hazardous waste storage unit, (1) elementary neutralization unit, (1) methylene chloride still, and (1) methylene chloride evaporation unit. SAI was classified as a treatment, storage, and disposal facility (TSDF). On November 2, 1984, the Department of Health Services denied SAIs request for hazardous waste reclassification from a TSDF to generator status, due to storage of hazardous waste on-site for longer than 90 days. The primary operations generated waste streams from the manufacturing plastic eyeglass lenses, and included the storage of nonchlorinated waste solvents, sodium hydroxide and water, and chlorinated waste solvents. As a treatment facility, SAI utilized two recovery units: one carbon adsorption unit and one distillation unit. The units were used to recover methylene chloride. The facility was formally clean closed by the U.S. EPA in a letter dated June 30, 1992. Our records indicate that in December 1997, the facility was referred to the Regional Water Quality Control Board (RWQCB) San Diego Region, as the lead agency for corrective action at the

SIGNET ARMORLITE (Continued) **1000314091**

facility. In a letter dated October 28, 2005, the DTSC formally acknowledged that the RWQCB is the lead agency for corrective action at the facility.

Site History: Not reported

HWP:

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: INTENDS/CLOSED ALL WASTE HANDLING FACILITY
Actual Date: 1989-12-07 00:00:00
Doc Comments: Not reported

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Approved Request
Actual Date: 1991-06-20 00:00:00
Doc Comments: Not reported

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Part A Received
Actual Date: 1989-11-29 00:00:00
Doc Comments: Not reported

HWP:

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Plan Approved - Closure
Actual Date: 1991-06-20 00:00:00
Doc Comments: Not reported

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Initial Submittal
Actual Date: 1980-11-19 00:00:00
Doc Comments: Not reported

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Clean Closure Acceptable
Actual Date: 1992-06-30 00:00:00
Doc Comments: Not reported

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Receive Closure Certification
Actual Date: 1992-06-18 00:00:00
Doc Comments: Not reported

EPA Id: CAD008362634
Unit Names: CONTAIN1, OTHRTRT1
Event Description: Public Notice - Closure
Actual Date: 1991-02-28 00:00:00
Doc Comments: Not reported

D17
SW
1/8-1/4
0.192 mi.
1014 ft.

SIGNET ARMORLITE, INCORPORATED
1001 ARMORLITE DR.
SAN MARCOS, CA 92069

Site 3 of 3 in cluster D

SLIC S106519125
N/A

Relative:
Lower

Actual:
560 ft.

SLIC:

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Open
Code:	20-0274.051
Waste Discharger Id:	9 000274N97
Local Case Num:	2091500
Responsible Party:	SIGNET ARMORLITE, INCORPORATED
Category:	ENF. REPORT
Class:	SLIC
Order Number:	Not reported
File Number:	9
Date Entered:	09/2003
End Date:	Not reported
Archive Box #:	0
Archive Box Storage:	Not reported
Archive Box Storage Location:	Not reported
Remarks:	Not reported

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Dead
Code:	20-0274.051
Waste Discharger Id:	9 000274N97
Local Case Num:	2091500
Responsible Party:	SIGNET ARMORLITE, INCORPORATED
Category:	ENF. REPORT
Class:	SLIC
Order Number:	Not reported
File Number:	2
Date Entered:	03/1994
End Date:	04/1996
Archive Box #:	926
Archive Box Storage:	3-1-15F
Archive Box Storage Location:	Not reported
Remarks:	Not reported

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Dead
Code:	20-0274.05
Waste Discharger Id:	9 000274N97
Local Case Num:	2091500
Responsible Party:	SIGNET ARMORLITE, INCORPORATED
Category:	ENFORCEMENT
Class:	SLIC
Order Number:	Not reported
File Number:	1
Date Entered:	08/1987
End Date:	08/1993
Archive Box #:	926
Archive Box Storage:	3-1-15F
Archive Box Storage Location:	Not reported

SIGNET ARMORLITE, INCORPORATED (Continued) **S106519125**

Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Closed
Code: 20-0274.05
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENFORCEMENT
Class: SLIC
Order Number: Not reported
File Number: 2
Date Entered: 09/1993
End Date: 06/1998
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Closed
Code: 20-0274.05
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENFORCEMENT
Class: SLIC
Order Number: Not reported
File Number: 3
Date Entered: 06/1998
End Date: 08/2000
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Open
Code: 20-0274.05
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENFORCEMENT
Class: SLIC
Order Number: Not reported
File Number: 4
Date Entered: 08/2000
End Date: Not reported
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9

SIGNET ARMORLITE, INCORPORATED (Continued) **S106519125**

Facilty Type:	Cleanup And Abatement Order
Status:	Closed
Code:	20-0274.051
Waste Discharger Id:	9 000274N97
Local Case Num:	2091500
Responsible Party:	SIGNET ARMORLITE, INCORPORATED
Category:	ENF. REPORT
Class:	SLIC
Order Number:	Not reported
File Number:	1
Date Entered:	01/1993
End Date:	02/1994
Archive Box #:	0
Archive Box Storage:	Not reported
Archive Box Storage Location:	Not reported
Remarks:	Not reported

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Closed
Code:	20-0274.051
Waste Discharger Id:	9 000274N97
Local Case Num:	2091500
Responsible Party:	SIGNET ARMORLITE, INCORPORATED
Category:	ENF. REPORT
Class:	SLIC
Order Number:	Not reported
File Number:	2.200
Date Entered:	04/1994
End Date:	04/1996
Archive Box #:	0
Archive Box Storage:	Not reported
Archive Box Storage Location:	Not reported
Remarks:	Not reported

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Closed
Code:	20-0274.051
Waste Discharger Id:	9 000274N97
Local Case Num:	2091500
Responsible Party:	SIGNET ARMORLITE, INCORPORATED
Category:	ENF. REPORT
Class:	SLIC
Order Number:	Not reported
File Number:	3
Date Entered:	05/1996
End Date:	09/1996
Archive Box #:	0
Archive Box Storage:	Not reported
Archive Box Storage Location:	Not reported
Remarks:	Not reported

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Closed
Code:	20-0274.051

SIGNET ARMORLITE, INCORPORATED (Continued) **S106519125**

Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENF. REPORT
Class: SLIC
Order Number: Not reported
File Number: 4
Date Entered: 10/1996
End Date: 03/1997
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Closed
Code: 20-0274.051
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENF. REPORT
Class: SLIC
Order Number: Not reported
File Number: 5
Date Entered: 04/1997
End Date: 05/1998
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Closed
Code: 20-0274.051
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENF. REPORT
Class: SLIC
Order Number: Not reported
File Number: 6
Date Entered: 06/1998
End Date: 03/2000
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Closed
Code: 20-0274.051
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED

SIGNET ARMORLITE, INCORPORATED (Continued) **S106519125**

Category: ENF. REPORT
Class: SLIC
Order Number: Not reported
File Number: 7
Date Entered: 04/2000
End Date: 08/2001
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Closed
Code: 20-0274.051
Waste Discharger Id: 9 000274N97
Local Case Num: 2091500
Responsible Party: SIGNET ARMORLITE, INCORPORATED
Category: ENF. REPORT
Class: SLIC
Order Number: Not reported
File Number: 8
Date Entered: 09/2001
End Date: 08/2003
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

E18 **ADVANCED STRUCTURES INC** **RCRA-NonGen** **1000151400**
WSW **1315 ARMORLITE DR** **FINDS** **CAD080920739**
1/8-1/4 **SAN MARCOS, CA 92069** **San Diego Co. HMMD**
0.216 mi.
1141 ft. **Site 1 of 2 in cluster E**

Relative:
Lower

Actual:
560 ft.

RCRA-NonGen:
Date form received by agency: 02/09/1983
Facility name: ADVANCED STRUCTURES INC
Facility address: 1315 ARMORLITE DR
SAN MARCOS, CA 92069
EPA ID: CAD080920739
Mailing address: ARMORLITE DR
SAN MARCOS, CA 92069
Contact: ENVIRONMENTAL MANAGER
Contact address: 1315 ARMORLITE DR
SAN MARCOS, CA 92069
Contact country: US
Contact telephone: (619) 744-9220
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: ADVANCED STRUCTURES INC PETE DARBY
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

ADVANCED STRUCTURES INC (Continued) **1000151400**

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

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

Violation Status: No violations found

FINDS:

Registry ID: 110001151663

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.

San Diego Co. HMMD:
Facility ID: 114980
Inactive Indicator: Active
Business Code: Not reported
SIC: Not reported
Permit Expiration: Not reported
Owner: CHARLES P DARBY
2nd Name: Not reported

ADVANCED STRUCTURES INC (Continued) **1000151400**

Mailing Address:	1315 ARMORLITE DR
Mailing City,St,Zip:	SAN MARCOS, CA 92069
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	Not reported
Census Tract Number:	200.0
EPA ID:	CAD080920739
Gas Station:	Not reported
Inspection Date:	06/26/90
Reinspection Date:	Not reported
Inspector Name:	LEGACY
Violation Notice Issued:	Not reported
Facility Contact:	STEVE BROWN
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	WAIT MARVIN G&SUSAN M
Property Address:	1003 ORIOLE WAY
Property City,St,Zip:	SAN MARCOS, CA 92078
Tank Owner:	Not reported
Tank Address:	Not reported
Tank City,St,Zip:	Not reported
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	619-744-8455

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported
2nd Hazard Category:	Not reported

HMMD UNDERGROUND TANKS:

Tank Number:	Not reported
Tank ID Number:	Not reported
Waste or Product:	Not reported
Tank Contents:	Not reported

HMMD VIOLATIONS:

Inspection Date:	Not reported
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	Not reported

HMMD WASTE STREAMS:

Inspection Date:	Not reported
Waste Item #:	Not reported

ADVANCED STRUCTURES INC (Continued) **1000151400**

Waste Code:	Not reported
Waste Name:	Not reported
Qnty at Inspection:	Not reported
Quantity String:	Not reported
Annual Qty:	Not reported
Annual Qty String:	Not reported
Measurement Unit:	Not reported
Treatment Method:	Not reported
Storage Method:	Not reported
Haz Waste Hauler:	Not reported
Waste Desc:	Not reported
Carcinogen:	No

19
WNW
1/8-1/4
0.217 mi.
1144 ft.

ESCONDIDO PAINT & BODY
1416 W MISSION RD
ESCONDIDO, CA 92025

RCRA-SQG **1000338516**
FINDS **CAD981640212**
HAZNET
EMI

Relative:
Lower

Actual:
563 ft.

RCRA-SQG:

Date form received by agency:	02/11/1987
Facility name:	ESCONDIDO PAINT & BODY
Facility address:	1416 W MISSION RD ESCONDIDO, CA 92025
EPA ID:	CAD981640212
Mailing address:	W MISSION RD ESCONDIDO, CA 92025
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1416 W MISSION RD ESCONDIDO, CA 92025
Contact country:	US
Contact telephone:	(619) 745-7611
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:	KENNEY KINCH
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
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported

ESCONDIDO PAINT & BODY (Continued) **1000338516**

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

Violation Status: No violations found

FINDS:

Registry ID: 110002735327

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 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: 2002
Gepaid: CAD981640212
Contact: KENNETH DEAN KINCH
Telephone: 7607457611
Mailing Name: Not reported
Mailing Address: 1416 W MISSION RD
Mailing City,St,Zip: ESCONDIDO, CA 920291103
Gen County: San Diego
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: R01
Tons: 2.41

ESCONDIDO PAINT & BODY (Continued) **1000338516**

Facility County: Not reported

Year: 2002
Gepaid: CAD981640212
Contact: KENNETH DEAN KINCH
Telephone: 7607457611
Mailing Name: Not reported
Mailing Address: 1416 W MISSION RD
Mailing City,St,Zip: ESCONDIDO, CA 920291103
Gen County: San Diego
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: Not reported
Tons: Not reported
Facility County: Not reported

Year: 2002
Gepaid: CAD981640212
Contact: KENNETH DEAN KINCH
Telephone: 7607457611
Mailing Name: Not reported
Mailing Address: 1416 W MISSION RD
Mailing City,St,Zip: ESCONDIDO, CA 920291103
Gen County: San Diego
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: H01
Tons: 0.07
Facility County: Not reported

Year: 2001
Gepaid: CAD981640212
Contact: KENNETH DEAN KINCH
Telephone: 7607457611
Mailing Name: Not reported
Mailing Address: 1416 W MISSION RD
Mailing City,St,Zip: ESCONDIDO, CA 920291103
Gen County: San Diego
TSD EPA ID: Not reported
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture
Disposal Method: Not reported
Tons: 0.29
Facility County: Not reported

Year: 2001
Gepaid: CAD981640212
Contact: KENNETH DEAN KINCH
Telephone: 7607457611
Mailing Name: Not reported
Mailing Address: 1416 W MISSION RD
Mailing City,St,Zip: ESCONDIDO, CA 920291103
Gen County: San Diego
TSD EPA ID: Not reported
TSD County: Los Angeles

ESCONDIDO PAINT & BODY (Continued) **1000338516**

Waste Category: Unspecified solvent mixture
Disposal Method: R01
Tons: 2.21
Facility County: Not reported

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

EMI:

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
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:	2001
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
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:	2002
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

ESCONDIDO PAINT & BODY (Continued) **1000338516**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
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:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.778941495
Reactive Organic Gases Tons/Yr:	0.718425
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:	2005
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.778941495
Reactive Organic Gases Tons/Yr:	.718425
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:	2006
County Code:	37
Air Basin:	SD

ESCONDIDO PAINT & BODY (Continued) **1000338516**

Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.36
Reactive Organic Gases Tons/Yr:	4.12
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:	2007
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.36
Reactive Organic Gases Tons/Yr:	4.12
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:	2007
County Code:	37
Air Basin:	SD
Facility ID:	2459
Air District Name:	SD
SIC Code:	7532
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.36
Reactive Organic Gases Tons/Yr:	4.12
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

E20
WSW
1/8-1/4
0.219 mi.
1155 ft.

GRANDWOOD INC
1305 ARMORLITE DR
SAN MARCOS, CA 92069

Site 2 of 2 in cluster E

RCRA-SQG
FINDS
EMI

1000311114
CAD981453814

Relative:
Lower

Actual:
560 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	GRANDWOOD, INC
Facility address:	1305 ARMORLITE DR SAN MARCOS, CA 92069
EPA ID:	CAD981453814
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:	GRANDWOOD, INC
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

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

GRANDWOOD INC (Continued) **1000311114**

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: 02/11/1986
Facility name: GRANDWOOD, INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002413610

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 corrective action activities required under RCRA.

EMI:
Year: 1993
County Code: 37
Air Basin: SD
Facility ID: 5981
Air District Name: SD
SIC Code: 2441
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 4
Reactive Organic Gases Tons/Yr: 3
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: 1995
County Code: 37
Air Basin: SD
Facility ID: 5981

GRANDWOOD INC (Continued) **1000311114**

Air District Name:	SD
SIC Code:	2441
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	3
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:	1996
County Code:	37
Air Basin:	SD
Facility ID:	5981
Air District Name:	SD
SIC Code:	2441
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	3
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:	1997
County Code:	37
Air Basin:	SD
Facility ID:	5981
Air District Name:	SD
SIC Code:	2441
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	3
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:	1998
County Code:	37
Air Basin:	SD
Facility ID:	5981
Air District Name:	SD
SIC Code:	2411
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6

GRANDWOOD INC (Continued) **1000311114**

Reactive Organic Gases Tons/Yr:	6
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:	1999
County Code:	37
Air Basin:	SD
Facility ID:	5981
Air District Name:	SD
SIC Code:	2511
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	6
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:	2000
County Code:	37
Air Basin:	SD
Facility ID:	5981
Air District Name:	SD
SIC Code:	2511
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	4
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:	2001
County Code:	37
Air Basin:	SD
Facility ID:	5981
Air District Name:	SD
SIC Code:	2511
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	4
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

21
SW
1/8-1/4
0.226 mi.
1194 ft.

VACANT LOT
199 LAS POSAS RD
SAN MARCOS, CA 92069

San Diego Co. HMMD **S104750821**
SAN DIEGO CO. SAM **N/A**

Relative:
Lower

Actual:
560 ft.

San Diego Co. HMMD:

Facility ID:	125926
Inactive Indicator:	Active
Business Code:	Not reported
SIC:	Not reported
Permit Expiration:	Not reported
Owner:	COCA COLA CO OF LOS ANGELES
2nd Name:	Not reported
Mailing Address:	1334 S CENTRAL AV
Mailing City,St,Zip:	LOS ANGELES, CA 90021
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	Not reported
Census Tract Number:	200.0
EPA ID:	Not reported
Gas Station:	Not reported
Inspection Date:	Not reported
Reinspection Date:	Not reported
Inspector Name:	Not reported
Violation Notice Issued:	Not reported
Facility Contact:	Not reported
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	GRAND LAS POSAS L L C
Property Address:	3 IMPERIAL PROMENADE
Property City,St,Zip:	92707
Tank Owner:	Not reported
Tank Address:	Not reported
Tank City,St,Zip:	Not reported
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	Not reported

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported
2nd Hazard Category:	Not reported

HMMD UNDERGROUND TANKS:

Tank Number:	Not reported
Tank ID Number:	Not reported
Waste or Product:	Not reported

VACANT LOT (Continued) **S104750821**

Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: Not reported
Waste Code: Not reported
Occurrences: Not reported
Item Number: Not reported

HMMD WASTE STREAMS:
Inspection Date: Not reported
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: Not reported
Qnty at Inspection: Not reported
Quantity String: Not reported
Annual Qty: Not reported
Annual Qty String: Not reported
Measurement Unit: Not reported
Treatment Method: Not reported
Storage Method: Not reported
Haz Waste Hauler: Not reported
Waste Desc: Not reported
Carcinogen: No

SAN DIEGO CO. SAM:
Case Number: H25926-001
Agency: CA Regional Water Quality Control Board
Funding: Private - VAP
FType: Drinking Water Aquifer Impacted
FStatus: 9
Date: 7/31/1997
Date Began: Not reported

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22 **NAPP SYSTEMS, INC.** **ENVIROSTOR** **S110494090**
WNW **360 S. PACIFIC STREET** **N/A**
1/4-1/2 **SAN MARCOS, CA 92069**
0.311 mi.
1641 ft.

Relative:
Lower

Actual:
573 ft.

ENVIROSTOR:
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Facility ID: 71002510
Site Code: Not reported
Assembly: 74
Senate: 38
Special Program: Not reported
Status: Not reported

NAPP SYSTEMS, INC. (Continued) **S110494090**

Status Date: Not reported
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 33.1398442
Longitude: -117.1983676
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD063237341
Alias Type: EPA Identification Number
Alias Name: 71002510
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

23
SSW
1/4-1/2
0.348 mi.
1835 ft.

MOYER CHEMICAL **CERC-NFRAP** **1003878787**
1227 LOS VALLECITOS RD **CAD980892723**
SAN MARCOS, CA 92069

Relative:
Lower

Actual:
560 ft.

CERC-NFRAP:
Site ID: 0902217
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13051769.00000
Person ID: 9271184.00000

Contact Sequence ID: 13057845.00000
Person ID: 9270048.00000

Contact Sequence ID: 13088560.00000
Person ID: 13002167.00000

Contact Sequence ID: 13174966.00000
Person ID: 9270438.00000

MOYER CHEMICAL (Continued) **1003878787**

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	04/01/1985
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	12/01/1987
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	04/09/1985
Date Completed:	12/01/1987
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

---

24
SE
1/4-1/2
0.356 mi.
1880 ft.

Relative:
Lower

Actual:
561 ft.

PATIO GUYS INC **RCRA-SQG 1000258796**
935 BAILEY CT STE D **FINDS CAD982488181**
SAN MARCOS, CA 92069 **SLIC**
San Diego Co. HMMD
HAZNET
SAN DIEGO CO. SAM

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	PATIO GUYS INC
Facility address:	935 BAILEY CT STE D SAN MARCOS, CA 92069
EPA ID:	CAD982488181
Mailing address:	810 G LOS VALLECITOS SAN MARCOS, CA 92069
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:	JAMES MONTEMARANO
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
Owner/operator name:	NOT REQUIRED

PATIO GUYS INC (Continued) **1000258796**

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: 04/20/1990
Facility name: PATIO GUYS INC
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110009546553

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.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 1991-02-15 00:00:00
Global Id: T0608199583
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H06559-001
Latitude: 33.1451319
Longitude: -117.182774
Case Type: Cleanup Program Site

PATIO GUYS INC (Continued) **1000258796**

Case Worker:	AN
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

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

San Diego Co. HMMD:

Facility ID:	106559
Inactive Indicator:	Active
Business Code:	Not reported
SIC:	Not reported
Permit Expiration:	Not reported
Owner:	STEVE COULTER/NICK MONTEMARANO
2nd Name:	Not reported
Mailing Address:	810-G LOS VALLECITO
Mailing City,St,Zip:	SAN MARCOS, CA 92069
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	Not reported
Census Tract Number:	200.0
EPA ID:	CAD982488181
Gas Station:	Not reported
Inspection Date:	02/14/91
Reinspection Date:	Not reported
Inspector Name:	LEGACY
Violation Notice Issued:	Not reported
Facility Contact:	DON LOWERY
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	POPOFF LIVING TRUST 08-20-99
Property Address:	P O BOX 3583
Property City,St,Zip:	RANCHO SANTA FE, CA 92067
Tank Owner:	Not reported
Tank Address:	Not reported
Tank City,St,Zip:	Not reported
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	619-471-0850

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported

PATIO GUYS INC (Continued) **1000258796**

2nd Hazard Category: Not reported

HMMD UNDERGROUND TANKS:
Tank Number: Not reported
Tank ID Number: Not reported
Waste or Product: Not reported
Tank Contents: Not reported

HMMD VIOLATIONS:
Inspection Date: Not reported
Waste Code: Not reported
Occurrences: Not reported
Item Number: Not reported

HMMD WASTE STREAMS:
Inspection Date: Not reported
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: Not reported
Qnty at Inspection: Not reported
Quantity String: Not reported
Annual Qty: Not reported
Annual Qty String: Not reported
Measurement Unit: Not reported
Treatment Method: Not reported
Storage Method: Not reported
Haz Waste Hauler: Not reported
Waste Desc: Not reported
Carcinogen: No

Facility ID: 208578
Inactive Indicator: Active
Business Code: 6HK50
SIC: Not reported
Permit Expiration: Not reported
Owner: AMERICAN LITHIUM ENERGY
2nd Name: ATTN: JIANG FAN
Mailing Address: 935 BAILEY CT #106
Mailing City,St,Zip: San Marcos, CA 92069
Map Code/Business Plan on File: Not reported
Corporate Code: Not reported
Fire Dept District: Not reported
Census Tract Number: 200.0
EPA ID: CAL000321697
Gas Station: Not reported
Inspection Date: 11/30/09
Reinspection Date: Not reported
Inspector Name: KBROWN6
Violation Notice Issued: Not reported
Facility Contact: JIANG FAN
Delinquent Flag: Not Delinquent
Last Update: 08/30/10
Last Delinquent Letter: Not reported
Delinquent Comment: Not reported
Last Letter Type: Not reported

PATIO GUYS INC (Continued) **1000258796**

Property Owner:	POPOFF LIVING TRUST 08-20-99
Property Address:	P O BOX 3583
Property City,St,Zip:	RANCHO SANTA FE, CA 92067
Tank Owner:	Not reported
Tank Address:	Not reported
Tank City,St,Zip:	Not reported
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	05/30/11
Facility Phone:	760-591-0611

HMMD DISCLOSURE INVENTORY:

Item Number:	NIT
Chemical Name:	NITROGEN GAS
Case Number:	7727-37-9
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	FIRE
2nd Hazard Category:	PRESSURE RELEASE

HMMD UNDERGROUND TANKS:

Tank Number:	Not reported
Tank ID Number:	Not reported
Waste or Product:	Not reported
Tank Contents:	Not reported

HMMD VIOLATIONS:

Inspection Date:	Not reported
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	Not reported

HMMD WASTE STREAMS:

Inspection Date:	11/30/09
Waste Item #:	171
Waste Code:	171
Waste Name:	METAL SLUDGE
Qnty at Inspection:	80
Quantity String:	80
Annual Qty:	400
Annual Qty String:	400
Measurement Unit:	LBS
Treatment Method:	001 RECYCLE
Storage Method:	METAL DRUM
Haz Waste Hauler:	4577 SPECTRUM ENVIR. SOL
Waste Desc:	NICKET COBALT MONGONESE
Carcinogen:	No

Inspection Date:	11/30/09
Waste Item #:	181
Waste Code:	181
Waste Name:	INORGANIC SOLID WAST
Qnty at Inspection:	400

PATIO GUYS INC (Continued) **1000258796**

Quantity String: 400
Annual Qty: 950
Annual Qty String: 950
Measurement Unit: LBS
Treatment Method: 001 RECYCLE
Storage Method: METAL DRUM
Haz Waste Hauler: 4026 ADVANCED CHEMICAL TR
Waste Desc: GRAPHITE / COPPER
Carcinogen: No

Inspection Date: 11/30/09
Waste Item #: 213
Waste Code: 213
Waste Name: HYDROCARBON SOLVENTS
Qnty at Inspection: 55
Quantity String: 55
Annual Qty: 20
Annual Qty String: 20
Measurement Unit: LBS
Treatment Method: 001 RECYCLE
Storage Method: METAL DRUM
Haz Waste Hauler: 4577 SPECTRUM ENVIR. SOL
Waste Desc: ORGANIC SOLVENT
Carcinogen: No

Inspection Date: 11/30/09
Waste Item #: 741
Waste Code: 741
Waste Name: LIQ W HALOG ORG >OR=
Qnty at Inspection: 2
Quantity String: 2
Annual Qty: 1
Annual Qty String: 1
Measurement Unit: GAL
Treatment Method: 001 RECYCLE
Storage Method: Not reported
Haz Waste Hauler: 4577 SPECTRUM ENVIR. SOL
Waste Desc: LITHIUM HEXAFLUROPHOSPHAT
Carcinogen: No

HAZNET:
Year: 2009
Gepaid: CAL000321697
Contact: JIANG FAN
Telephone: 8586104053
Mailing Name: Not reported
Mailing Address: 935 BAILEY CT
Mailing City,St,Zip: SAN MARCOS, CA 920690000
Gen County: San Diego
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Other inorganic solid waste
Disposal Method: OTHER TREATMENT
Tons: 0.2
Facility County: San Diego

PATIO GUYS INC (Continued) **1000258796**

Year:	2009
Gepaid:	CAL000321697
Contact:	JIANG FAN
Telephone:	8586104053
Mailing Name:	Not reported
Mailing Address:	935 BAILEY CT
Mailing City,St,Zip:	SAN MARCOS, CA 920690000
Gen County:	San Diego
TSD EPA ID:	CAD982444481
TSD County:	San Bernardino
Waste Category:	Other inorganic solid waste
Disposal Method:	STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons:	0.331
Facility County:	San Diego

Year:	2008
Gepaid:	CAL000321697
Contact:	JIANG FAN
Telephone:	8586104053
Mailing Name:	Not reported
Mailing Address:	935 BAILEY CT
Mailing City,St,Zip:	SAN MARCOS, CA 920690000
Gen County:	San Diego
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Liquids with nickel >= 134 Mg./L
Disposal Method:	OTHER RECOVERY OF RECLAMATION FOR REUSE INCLUDING ACID REGENERATION, ORGANICS RECOVERY ECT
Tons:	0.2
Facility County:	San Diego

Year:	2008
Gepaid:	CAL000321697
Contact:	JIANG FAN
Telephone:	8586104053
Mailing Name:	Not reported
Mailing Address:	935 BAILEY CT
Mailing City,St,Zip:	SAN MARCOS, CA 920690000
Gen County:	San Diego
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other inorganic solid waste
Disposal Method:	LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL(TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)
Tons:	0.125
Facility County:	San Diego

Year:	2008
Gepaid:	CAL000321697
Contact:	JIANG FAN
Telephone:	8586104053
Mailing Name:	Not reported
Mailing Address:	935 BAILEY CT
Mailing City,St,Zip:	SAN MARCOS, CA 920690000
Gen County:	San Diego
TSD EPA ID:	CAD982444481

PATIO GUYS INC (Continued) **1000258796**

TSD County: San Bernardino
Waste Category: Other inorganic solid waste
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.535
Facility County: San Diego

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

SAN DIEGO CO. SAM:
Case Number: H06559-001
Agency: DEH Site Assessment & Mitigation
Funding: Private - VAP
FType: Soils Only
FStatus: 9
Date: 2/15/1991
Date Began: 1/11/1990

F25 **COUNTY OF SD-PUBLIC WORKS** **HIST CORTESE** **1000110719**
WSW **1600 DESCANSO** **HAZNET** **N/A**
1/4-1/2 **SAN MARCOS, CA 92059**
0.402 mi.
2121 ft. **Site 1 of 3 in cluster F**

Relative:
Lower

Actual:
560 ft.

CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3514

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3937

HAZNET:
Year: 2007
Gepaid: CAD981454465
Contact: TOM HERZBERGER, DPW MANAGER
Telephone: 8588744040
Mailing Name: Not reported
Mailing Address: 5469 KEARNY VILLA RD STE 201
Mailing City,St,Zip: SAN DIEGO, CA 921231219
Gen County: San Diego
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Off-specification, aged or surplus organics
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.59
Facility County: San Diego

Year: 2007
Gepaid: CAD981454465
Contact: TOM HERZBERGER, DPW MANAGER
Telephone: 8588744040

COUNTY OF SD-PUBLIC WORKS (Continued) **1000110719**

Mailing Name: Not reported
Mailing Address: 5469 KEARNY VILLA RD STE 201
Mailing City,St,Zip: SAN DIEGO, CA 921231219
Gen County: San Diego
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Waste Category: Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/REOVERY (H010-H129) OR (H131-H135)
Tons: 0.16
Facility County: San Diego

Year: 2006
Gepaid: CAD981454465
Contact: TOM HERZBERGER, DPW MANAGER
Telephone: 8588744040
Mailing Name: Not reported
Mailing Address: 5469 KEARNY VILLA RD STE 201
Mailing City,St,Zip: SAN DIEGO, CA 921231219
Gen County: San Diego
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Other inorganic solid waste
Disposal Method: H14
Tons: 0.18
Facility County: San Diego

Year: 2005
Gepaid: CAD981454465
Contact: TOM HERZBERGER, DPW MANAGER
Telephone: 8588744040
Mailing Name: Not reported
Mailing Address: 5469 KEARNY VILLA RD STE 201
Mailing City,St,Zip: SAN DIEGO, CA 921231219
Gen County: San Diego
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: H01
Tons: 0.07
Facility County: Not reported

Year: 2004
Gepaid: CAD981454465
Contact: TOM HERZBERGER, DPW MANAGER
Telephone: 8588744040
Mailing Name: Not reported
Mailing Address: 5469 KEARNY VILLA RD STE 201
Mailing City,St,Zip: SAN DIEGO, CA 921231219
Gen County: San Diego
TSD EPA ID: CAD008252405
TSD County: Los Angeles
Waste Category: Other organic solids
Disposal Method: H01
Tons: 0.07
Facility County: Not reported

COUNTY OF SD-PUBLIC WORKS (Continued) **1000110719**

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

F26 **COUNTY OF SD-PUBLIC WORKS** **LUST** **S100944147**
WSW **1600 DESCANSO AVE** **SWEEPS UST** **N/A**
1/4-1/2 **SAN MARCOS, CA 92069**
0.402 mi.
2121 ft. **Site 2 of 3 in cluster F**

Relative:
Lower

Actual:
560 ft.

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT3514
Local Case:	H04814-001
Substance:	Diesel
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Tank
Cause:	Corrosion
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	07/09/1997
Date Stopped:	07/09/1997
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	07/09/1997
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	07/09/1997
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	904.32
GW Depth:	11’
Beneficial Use:	Municipal groundwater use
NPDES Number:	Not reported
Priority:	1B
File Dispn:	Administratively opened on database, however no file physically exists
Interim Remedial Actions:	Not reported
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SWEEPS UST:

Status:	A
Comp Number:	4814
Number:	9
Board Of Equalization:	44-022036
Ref Date:	Not reported
Act Date:	06-26-92
Created Date:	02-29-88
Tank Status:	A

COUNTY OF SD-PUBLIC WORKS (Continued) **S100944147**

Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-004814-000001
Actv Date:	Not reported
Capacity:	2000
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	5
Status:	A
Comp Number:	4814
Number:	9
Board Of Equalization:	44-022036
Ref Date:	Not reported
Act Date:	06-26-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-004814-000002
Actv Date:	Not reported
Capacity:	8000
Tank Use:	M.V. FUEL
Stg:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	A
Comp Number:	4814
Number:	9
Board Of Equalization:	44-022036
Ref Date:	Not reported
Act Date:	06-26-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-004814-000003
Actv Date:	Not reported
Capacity:	4000
Tank Use:	M.V. FUEL
Stg:	P
Content:	OTHER
Number Of Tanks:	Not reported
Status:	A
Comp Number:	4814
Number:	9
Board Of Equalization:	44-022036
Ref Date:	Not reported
Act Date:	06-26-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-004814-000004
Actv Date:	Not reported
Capacity:	6000
Tank Use:	M.V. FUEL
Stg:	P

COUNTY OF SD-PUBLIC WORKS (Continued) **S100944147**

Content:	OTHER
Number Of Tanks:	Not reported
Status:	A
Comp Number:	4814
Number:	9
Board Of Equalization:	44-022036
Ref Date:	Not reported
Act Date:	06-26-92
Created Date:	02-29-88
Tank Status:	A
Owner Tank Id:	Not reported
Swrcb Tank Id:	37-000-004814-000005
Actv Date:	Not reported
Capacity:	550
Tank Use:	PETROLEUM
Stg:	W
Content:	Not reported
Number Of Tanks:	Not reported

F27 **SAN MARCOS ROAD STATION** **LUST** **S104025596**
WSW **1600 DESCANSO AVE** **N/A**
1/4-1/2 **SAN MARCOS, CA 92069**
0.402 mi.
2121 ft. **Site 3 of 3 in cluster F**

Relative:
Lower

Actual:
560 ft.

LUST REG 9:

Region:	9
Status:	Preliminary site assessment workplan submitted
Case Number:	9UT3937
Local Case:	H04814-002
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	05/14/1999
Date Stopped:	05/14/1999
Confirm Date:	06/29/1999
Submit Workplan:	7/8/99
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	06/02/1999
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	904.32
GW Depth:	Not reported
Beneficial Use:	MUNBU

SAN MARCOS ROAD STATION (Continued) **S104025596**

NPDES Number: Not reported
Priority: 2B
File Dispn: Administratively opened on database, however no file physically exists
Interim Remedial Actions: Not reported
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

28
South
1/4-1/2
0.482 mi.
2544 ft.

SPANJIAN BLDG **SLIC** **S105692328**
1050 LOS VALLECITOS BL **SAN DIEGO CO. SAM** **N/A**
SAN MARCOS, CA 92069

Relative:
Lower

Actual:
547 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Verification Monitoring**
Status Date:	1996-01-01 00:00:00
Global Id:	SL0607396081
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number:	H29237-001
Latitude:	33.1427302606866
Longitude:	-117.186827659607
Case Type:	Cleanup Program Site
Case Worker:	REP
Local Agency:	Not reported
RB Case Number:	2090027
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	1,1,1-Trichloroethane (TCA), Other Chlorinated Hydrocarbons, Other Solvent or Non-Petroleum Hydrocarbon, Tetrachloroethylene (PCE), Trichloroethylene (TCE), Stoddard solvent / Mineral Spriits / Distillates
Site History:	Not reported

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

SLIC:

Region:	9
Facilty Type:	Cleanup And Abatement Order
Status:	Dead
Code:	20-0020.05
Waste Discharger Id:	Not reported
Local Case Num:	Not reported
Responsible Party:	SPANJIAN
Category:	ENFORCEMENT
Class:	SLIC
Order Number:	92-82
File Number:	1
Date Entered:	09/1981
End Date:	11/1989
Archive Box #:	909
Archive Box Storage:	3-1-12R
Archive Box Storage Location:	Not reported
Remarks:	Not reported

Region:	9
Facilty Type:	Cleanup And Abatement Order

SPANJIAN BLDG (Continued) **S105692328**

Status: Dead
Code: 20-0020.05
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENFORCEMENT
Class: SLIC
Order Number: 92-82
File Number: 2
Date Entered: 12/1989
End Date: 03/1991
Archive Box #: 909
Archive Box Storage: 3-1-12R
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Dead
Code: 20-0020.05
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENFORCEMENT
Class: SLIC
Order Number: 92-82
File Number: 3
Date Entered: 04/1991
End Date: 08/1992
Archive Box #: 909
Archive Box Storage: 3-1-12R
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Dead
Code: 20-0020.05
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENFORCEMENT
Class: SLIC
Order Number: 92-82
File Number: 4
Date Entered: 08/1992
End Date: 10/1992
Archive Box #: 909
Archive Box Storage: 3-1-12R
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Dead
Code: 20-0020.05
Waste Discharger Id: Not reported

SPANJIAN BLDG (Continued) **S105692328**

Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENFORCEMENT
Class: SLIC
Order Number: 93-22
File Number: 5
Date Entered: 11/1992
End Date: 02/1994
Archive Box #: 909
Archive Box Storage: 3-1-12R
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Open
Code: 20-0020.05
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENFORCEMENT
Class: SLIC
Order Number: 93-22
File Number: 6
Date Entered: 03/1994
End Date: Not reported
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Dead
Code: 20-0020.051
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENF. REPORT
Class: SLIC
Order Number: 92-82
File Number: 1
Date Entered: 06/1989
End Date: 09/1991
Archive Box #: 909
Archive Box Storage: 3-1-12R
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Dead
Code: 20-0020.051
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENF. REPORT

SPANJIAN BLDG (Continued) **S105692328**

Class: SLIC
Order Number: 93-22
File Number: 2
Date Entered: 10/1991
End Date: 03/1996
Archive Box #: 909
Archive Box Storage: 3-1-12R
Archive Box Storage Location: Not reported
Remarks: Not reported

Region: 9
Facilty Type: Cleanup And Abatement Order
Status: Open
Code: 20-0020.051
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: SPANJIAN
Category: ENF. REPORT
Class: SLIC
Order Number: 92-82
File Number: 3
Date Entered: 04/1996
End Date: Not reported
Archive Box #: 0
Archive Box Storage: Not reported
Archive Box Storage Location: Not reported
Remarks: Not reported

SAN DIEGO CO. SAM:
Case Number: H29237-001
Agency: CA Regional Water Quality Control Board
Funding: Non Billable
FType: Soils Only
FStatus: 7
Date: 7/10/1989
Date Began: 7/10/1989

29
SW
1/4-1/2
0.485 mi.
2559 ft.

Relative:
Lower

Actual:
544 ft.

COLUCCI DEVELOPMENT **SLIC** **S106519075**
1325 GRAND AVE **N/A**
SAN MARCOS, CA 92069

SLIC:
Region: 9
Facilty Type: Not reported
Status: Dead
Code: 20-0305.05
Waste Discharger Id: Not reported
Local Case Num: Not reported
Responsible Party: GRAND AVENUE BUSINESS PARK
Category: ENFORCEMENT
Class: SLIC
Order Number: Not reported
File Number: 1
Date Entered: 11/1986
End Date: 12/1986

COLUCCI DEVELOPMENT (Continued) **S106519075**

Archive Box #: 928
Archive Box Storage: 3-1-15F
Archive Box Storage Location: MR. ALBERT COLUCCI
Remarks: Not reported

30
SW
1/4-1/2
0.496 mi.
2620 ft.

Relative:
Lower

Actual:
547 ft.

DEWEY PEST CONTROL
1370 GRAND AVENUE
SAN MARCOS, CA 92069

RCRA-SQG **1000226169**
FINDS **CAD981430937**
HIST CORTESE
LUST
SLIC
UST
SWEEPS UST
San Diego Co. HMMD
HAZNET
SAN DIEGO CO. SAM

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: DEWEY PEST CONTROL
Facility address: 1370 GRAND AVENUE
SAN MARCOS, CA 92069
EPA ID: CAD981430937
Mailing address: 3711 BEVERLY BLVD
LOS ANGELES, CA 90004
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: 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: DEWEY SERVICES INC
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

DEWEY PEST CONTROL (Continued) **1000226169**

Owner/Op end date: Not reported

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

Historical Generators:
Date form received by agency: 07/30/1986
Facility name: DEWEY PEST CONTROL
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002702950

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.

CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT301

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT301
Local Case: H04345-001
Substance: 0
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Remove Contents

DEWEY PEST CONTROL (Continued) **1000226169**

Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 04/07/1987
Date Stopped: 04/07/1987
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 08/20/1987
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 04/09/1987
Enforce Date: Not reported
Closed Date: 8/26/87
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 904.52
GW Depth: ~10
Beneficial Use: Municipal groundwater use
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 1987-08-26 00:00:00
Global Id: T0607301777
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H04345-001
Latitude: 33.1436369
Longitude: -117.1931738
Case Type: Cleanup Program Site
Case Worker: JF
Local Agency: Not reported
RB Case Number: 9UT301
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

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

UST:
Facility ID: 18699
Latitude: 33.14349
Longitude: -117.19311

SWEEPS UST:
Status: A
Comp Number: 4345

DEWEY PEST CONTROL (Continued) **1000226169**

Number: 9
Board Of Equalization: 44-006091
Ref Date: Not reported
Act Date: 06-26-92
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-004345-000003
Actv Date: Not reported
Capacity: 5000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 1

Status: Not reported
Comp Number: 4345
Number: Not reported
Board Of Equalization: 44-006091
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-004345-000001
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 4345
Number: Not reported
Board Of Equalization: 44-006091
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 37-000-004345-000002
Actv Date: Not reported
Capacity: 550
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

San Diego Co. HMMD:
Facility ID: 104345
Inactive Indicator: Active
Business Code: 6HK69
SIC: Not reported
Permit Expiration: Not reported
Owner: Not reported
2nd Name: Not reported

DEWEY PEST CONTROL (Continued) **1000226169**

Mailing Address:	1370 GRAND AV
Mailing City,St,Zip:	SAN MARCOS, CA 92069
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	San Marcos
Census Tract Number:	200.0
EPA ID:	Not reported
Gas Station:	Not reported
Inspection Date:	08/11/03
Reinspection Date:	Not reported
Inspector Name:	MSEDGHI
Violation Notice Issued:	Not reported
Facility Contact:	SHAWN COLEMAN
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	DEWEY RENTAL CO
Property Address:	939 E UNION ST
Property City,St,Zip:	PASADENA, CA 91106
Tank Owner:	DEWEY PEST CONTROL
Tank Address:	3711 BEVERLY BL
Tank City,St,Zip:	Pasadena, CA 91109
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	760-744-3170

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported
2nd Hazard Category:	Not reported

HMMD UNDERGROUND TANKS:

Tank Number:	T001
Tank ID Number:	1
Waste or Product:	550
Tank Contents:	Not reported

Tank Number:	T002
Tank ID Number:	2
Waste or Product:	550
Tank Contents:	Not reported

Tank Number:	T003
Tank ID Number:	3 UNLEADED
Waste or Product:	5000
Tank Contents:	Not reported

DEWEY PEST CONTROL (Continued) **1000226169**

HMMD VIOLATIONS:

Inspection Date:	11/23/99
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	6397
Inspection Date:	11/23/99
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	6398
Inspection Date:	11/23/99
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	6399
Inspection Date:	11/23/99
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	6400
Inspection Date:	07/31/01
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	3708
Inspection Date:	07/31/01
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	3709
Inspection Date:	08/11/03
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	9039
Inspection Date:	08/11/03
Waste Code:	Not reported
Occurrences:	Not reported
Item Number:	9040

HMMD WASTE STREAMS:

Inspection Date:	Not reported
Waste Item #:	Not reported
Waste Code:	Not reported
Waste Name:	Not reported
Qnty at Inspection:	Not reported
Quantity String:	Not reported
Annual Qty:	Not reported
Annual Qty String:	Not reported
Measurement Unit:	Not reported
Treatment Method:	Not reported
Storage Method:	Not reported
Haz Waste Hauler:	Not reported
Waste Desc:	Not reported
Carcinogen:	No

DEWEY PEST CONTROL (Continued) **1000226169**

Facility ID:	203988
Inactive Indicator:	Active
Business Code:	6HK35
SIC:	Not reported
Permit Expiration:	Not reported
Owner:	TIM NASH
2nd Name:	Not reported
Mailing Address:	PO BOX 413
Mailing City,St,Zip:	FALLBROOK, CA 92088
Map Code/Business Plan on File:	Not reported
Corporate Code:	Not reported
Fire Dept District:	San Marcos
Census Tract Number:	200.0
EPA ID:	Not reported
Gas Station:	Not reported
Inspection Date:	02/09/06
Reinspection Date:	Not reported
Inspector Name:	PMONNIER
Violation Notice Issued:	Not reported
Facility Contact:	TIM NASH
Delinquent Flag:	Not Delinquent
Last Update:	08/30/10
Last Delinquent Letter:	Not reported
Delinquent Comment:	Not reported
Last Letter Type:	Not reported
Property Owner:	G B U ENTERPRISES L L C
Property Address:	1350 GRAND AVE 210
Property City,St,Zip:	SAN MARCOS, CA 92078
Tank Owner:	Not reported
Tank Address:	Not reported
Tank City,St,Zip:	Not reported
Business Plan Acceptance Date:	Not reported
Reinspection Date Y2K Compatible:	Not reported
Facility Phone:	760-761-4749

HMMD DISCLOSURE INVENTORY:

Item Number:	Not reported
Chemical Name:	Not reported
Case Number:	Not reported
Quantity Stored At One Time:	Not reported
Quantity Stored at One Time:	Not reported
Annual Quantity String:	Not reported
Annual Quantity String:	Not reported
Measurement Units:	Not reported
Carcinogen:	No
1st Hazard Category:	Not reported
2nd Hazard Category:	Not reported

HMMD UNDERGROUND TANKS:

Tank Number:	Not reported
Tank ID Number:	Not reported
Waste or Product:	Not reported
Tank Contents:	Not reported

HMMD VIOLATIONS:

Inspection Date:	Not reported
Waste Code:	Not reported

DEWEY PEST CONTROL (Continued) **1000226169**

Occurrences: Not reported
Item Number: Not reported

HMMD WASTE STREAMS:
Inspection Date: Not reported
Waste Item #: Not reported
Waste Code: Not reported
Waste Name: Not reported
Qnty at Inspection: Not reported
Quantity String: Not reported
Annual Qty: Not reported
Annual Qty String: Not reported
Measurement Unit: Not reported
Treatment Method: Not reported
Storage Method: Not reported
Haz Waste Hauler: Not reported
Waste Desc: Not reported
Carcinogen: No

HAZNET:
Year: 2004
Gepaid: CAC002573250
Contact: SEAN COLEMAN
Telephone: 7604818419
Mailing Name: Not reported
Mailing Address: 1370 GRAND AVE
Mailing City,St,Zip: SAN MARCOS, CA 920782404
Gen County: San Diego
TSD EPA ID: AZR000035915
TSD County: 99
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: R01
Tons: 1.16
Facility County: Not reported

Year: 1997
Gepaid: CAD981430937
Contact: Not reported
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 3711 BEVERLY BLVD
Mailing City,St,Zip: LOS ANGELES, CA 900040000
Gen County: San Diego
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: R01
Tons: .5004
Facility County: San Diego

SAN DIEGO CO. SAM:
Case Number: H04345-001
Agency: DEH Site Assessment & Mitigation
Funding: Private - VAP
FType: Soils Only

DEWEY PEST CONTROL (Continued) **1000226169**

FStatus: 9
Date: 8/26/1987
Date Began: 4/13/1987

31
SSW
1/2-1
0.583 mi.
3081 ft.

MASHBURN SANITATION CO. **SWF/LF** **S100233159**
224 LAS POSAS ROAD **Notify 65** **N/A**
SAN MARCOS, CA

Relative:
Lower

Actual:
540 ft.

SAN DIEGO CO. LF:
Region: SAN DIEGO
Swisnumber: 37-AA-0953
Owner Name: EDCO WASTE AND RECYCLING, INC
Operator: EDCO WASTE AND RECYCLING, INC
Facility Type: MEDIUM VOLUME TRANSFER MEDIUM VOLUME CDI PROCESSING
Facility Type2: CDI PROCESSING
Facility Status: ACTIVE SITES
PERMTIER: REGISTRATION
Inspection Frequency: MONTHLY
Operator's Status: ACTIVE

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: Not reported

32
South
1/2-1
0.665 mi.
3509 ft.

HUES METAL FINISHING, INC. **ENVIROSTOR** **S110493921**
977 LINDA VISTA DRIVE **N/A**
SAN MARCOS, CA 92069

Relative:
Lower

Actual:
544 ft.

ENVIROSTOR:
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Facility ID: 71002362
Site Code: Not reported
Assembly: 74
Senate: 38
Special Program: Not reported
Status: Not reported
Status Date: Not reported
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported

HUES METAL FINISHING, INC. (Continued) **S110493921**

Latitude: 33.1389799
Longitude: -117.185657
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD039769583
Alias Type: EPA Identification Number
Alias Name: 71002362
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

33
South
1/2-1
0.928 mi.
4902 ft.

CRIBBAGE LANE & SAN MARCOS BL. **Notify 65** **S100178376**
SAN MARCOS, CA **N/A**

Relative:
Lower

Actual:
541 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: Not reported

34
SE
1/2-1
0.953 mi.
5031 ft.

670 SAN MARCOS BLVD. **ENVIROSTOR** **S106893826**
670 SAN MARCOS BLVD. **N/A**
SAN MARCOS, CA 92069

Relative:
Lower

Actual:
554 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: SAN DIEGO COUNTY
Lead Agency: SAN DIEGO COUNTY
Program Manager: Not reported

670 SAN MARCOS BLVD. (Continued) **S106893826**

Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Facility ID: 37000068
Site Code: Not reported
Assembly: 74
Senate: 38
Special Program: Not reported
Status: Refer: 1248 Local Agency
Status Date: 2000-08-24 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not Applicable
Latitude: 33.1378207090787
Longitude: -117.178115844727
APN: 2191806800
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 2191806800
Alias Type: APN
Alias Name: 37000068
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 2000-08-22 00:00:00
Comments: SB 1248 San Diego County

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: 16 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN DIEGO COUNTY	M300003188	C. W. MCGRATH, INC.	HILLSDALE GRANITE PIT		MINES
SAN DIEGO COUNTY	2009918302	MISSION BAY	MISSION BAY		ERNS
SAN DIEGO COUNTY	2009918235	MISSION BAY	MISSION BAY		ERNS
SAN DIEGO COUNTY	2008902067	998 WEST MISSION BAY DRIVE	998 WEST MISSION BAY DRIVE		ERNS
SAN DIEGO COUNTY	M300003187	SUPERIOR READY MIX CONCRETE CO.	MISSION GORGE PLANT		MINES
SAN DIEGO COUNTY	M300003190	VULCAN MATERIALS CO.	MISSION VALLEY (#022)		MINES
SAN DIEGO COUNTY	2011965498	UNKNOWN SHEEN INCIDENT MISSION BAY	UNKNOWN SHEEN INCIDENT MISSION		ERNS
SAN MARCOS	S106797672	EVANS DEDICATED SYSTEMS	HWY 78	92069	ENVIROSTOR
SAN MARCOS	S107736754	MISSION HILLS HS AKA HOLLANDIA DAI	800TH & 900 EAST MISSION RD	92069	SCH, ENVIROSTOR
SAN MARCOS	S105155593	OLD SAN MARCOS LF (BRADLEY PARK)	400 BLK. RANCHO SANTE FE ROAD		SWF/LF
SAN MARCOS	S105155633	MR. HENRY MULCHING OPERTATION	2400 BLOCK OF TWIN OAKS VALLEY		SWF/LF
SAN MARCOS	S109450700	MISSION HILLS CHURCH	SE CNR MULBERRY DR	92069	NPDES
SAN MARCOS	S103630912	PEACOCK CLEANERS	1450 W MISSION RD	92069	DRYCLEANERS, HAZNET
SAN MARCOS	1003879575	OLD WEST WOOD FINISHING	972 RANCH SUITE B	92069	CERC-NFRAP
SAN MARCOS	S110735502	RANCHEROS DRIVE & MISSION RD	RANCHEROS DR & E MISSION RD	92069	NPDES
SAN MARCOS	S105126369	SHELL SERVICE STATION	112 RANCHO SANTA FE/HWY 78		HIST CORTESE

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: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 04/13/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 62

Source: EPA
Telephone: N/A
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 02/25/2011
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/12/2011
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 EPAa??s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010
Date Data Arrived at EDR: 01/11/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/15/2011
Next Scheduled EDR Contact: 07/25/2011
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: 02/25/2011
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/09/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 91

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

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

Date of Government Version: 05/23/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

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

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

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

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

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

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: 06/06/2011
Next Scheduled EDR Contact: 09/19/2011
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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 04/29/2011
Date Data Arrived at EDR: 04/29/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

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

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

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

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: 04/29/2011
Date Data Arrived at EDR: 04/29/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
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: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
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: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
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: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 06/13/2011
Next Scheduled EDR Contact: 09/13/2011
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: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
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: 05/17/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 26
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 03/07/2011
Date Data Arrived at EDR: 05/20/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 25
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

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

Date of Government Version: 05/16/2011
Date Data Arrived at EDR: 05/17/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 28
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 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: 214-665-6597
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

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: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

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

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 05/04/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 64
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/04/2010
Next Scheduled EDR Contact: 05/16/2011
Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 04/29/2011
Date Data Arrived at EDR: 04/29/2011
Date Made Active in Reports: 05/18/2011
Number of Days to Update: 19

Source: SWRCB
Telephone: 916-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
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: 916-341-5712
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 07/25/2011
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: 05/17/2011
Date Data Arrived at EDR: 05/19/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 26

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 05/18/2011
Date Data Arrived at EDR: 05/26/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 19

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 05/16/2011
Date Data Arrived at EDR: 05/17/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 28

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 04/01/2011
Date Data Arrived at EDR: 06/01/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 13

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/03/2011
Next Scheduled EDR Contact: 05/16/2011
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: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 01/01/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 68

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 03/03/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 45

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 03/07/2011
Date Data Arrived at EDR: 05/04/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 41

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/03/2011
Next Scheduled EDR Contact: 08/15/2011
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: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
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: 02/25/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 03/29/2011
Date Data Arrived at EDR: 03/29/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 02/24/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 29

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
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: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
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: 02/02/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 46

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/07/2011
Next Scheduled EDR Contact: 09/19/2011
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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
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: 12/31/2010
Date Data Arrived at EDR: 03/04/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 06/06/2011
Next Scheduled EDR Contact: 09/19/2011
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: 02/01/2011
Date Data Arrived at EDR: 02/04/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 87
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 05/23/2011
Next Scheduled EDR Contact: 09/05/2011
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: 04/05/2011
Date Data Arrived at EDR: 04/06/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 41
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 03/18/2011
Date Data Arrived at EDR: 03/18/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 33

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
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: 12/31/2010
Date Data Arrived at EDR: 01/05/2011
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 51

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 12/31/2010
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 43

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 04/29/2011
Date Data Arrived at EDR: 04/29/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 18

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
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: 04/29/2011
Date Data Arrived at EDR: 04/29/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 04/29/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: 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: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 01/12/2011
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
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: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
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: 12/31/2010
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
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: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/15/2011
Next Scheduled EDR Contact: 09/26/2011
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: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 06/02/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

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: 02/08/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/08/2011
Next Scheduled EDR Contact: 09/19/2011
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: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
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: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
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: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
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: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
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: 03/18/2010
Date Data Arrived at EDR: 04/06/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 51

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/13/2011
Next Scheduled EDR Contact: 07/25/2011
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: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
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

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: 05/27/2011
Next Scheduled EDR Contact: 09/12/2011
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

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: 06/13/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

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). This listing is no longer updated by the state agency.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/04/2011
Number of Days to Update: 29

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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].

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: 03/29/2011
Next Scheduled EDR Contact: 07/11/2011
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: 09/15/2010
Date Data Arrived at EDR: 09/16/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 13

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 04/05/2011
Next Scheduled EDR Contact: 07/18/2011
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: 12/31/2009
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 36

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
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: 04/01/2011
Next Scheduled EDR Contact: 07/11/2011
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: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
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: 06/06/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 02/28/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 29
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
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: 03/04/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 34
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
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: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
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: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
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: 04/19/2011
Date Data Arrived at EDR: 04/19/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 23
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
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: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2011
Next Scheduled EDR Contact: 09/12/2011
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: 03/15/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 04/26/2011
Number of Days to Update: 41

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/23/2011
Next Scheduled EDR Contact: 09/05/2011
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: 05/05/2011
Next Scheduled EDR Contact: 08/15/2011
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: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/05/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: 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 Historical Auto Stations: EDR Proprietary 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.

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 Historical Cleaners: EDR Proprietary 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.

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

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: 04/12/2011
Date Data Arrived at EDR: 04/15/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/12/2011
Date Data Arrived at EDR: 04/15/2011
Date Made Active in Reports: 05/18/2011
Number of Days to Update: 33

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Semi-Annually

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 03/29/2011
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 27

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/03/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

COLUSA COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 12/01/2010
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 27

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 03/03/2011
Next Scheduled EDR Contact: 08/01/2011
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: 03/10/2011
Date Data Arrived at EDR: 03/11/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 13

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Semi-Annually

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: 04/15/2011
Date Data Arrived at EDR: 04/19/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 23

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/08/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/12/2011
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: 05/31/2011
Next Scheduled EDR Contact: 08/29/2011
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: 12/06/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/31/2011
Number of Days to Update: 28

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
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: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2011
Date Data Arrived at EDR: 06/09/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 6

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/25/2011
Date Data Arrived at EDR: 04/28/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 19

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
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: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/09/2011
Date Data Arrived at EDR: 02/09/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 23
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011
Date Data Arrived at EDR: 02/08/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 23
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/25/2011
Next Scheduled EDR Contact: 08/08/2011
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: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/18/2011
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/18/2011
Number of Days to Update: 28
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
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: 04/01/2011
Date Data Arrived at EDR: 04/12/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 30
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 04/15/2011
Date Data Arrived at EDR: 04/26/2011
Date Made Active in Reports: 05/18/2011
Number of Days to Update: 22
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 04/25/2011
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 06/06/2011
Date Data Arrived at EDR: 06/06/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/20/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
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: 07/09/2008
Date Data Arrived at EDR: 07/09/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 22

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 03/07/2011
Next Scheduled EDR Contact: 06/20/2011
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: 06/06/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: No Update Planned

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/02/2011
Date Data Arrived at EDR: 05/20/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/05/2011
Date Data Arrived at EDR: 05/20/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 02/15/2011
Date Made Active in Reports: 03/03/2011
Number of Days to Update: 16

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/17/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 31

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
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: 04/26/2011
Date Data Arrived at EDR: 04/28/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 19

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/26/2011
Date Data Arrived at EDR: 04/28/2011
Date Made Active in Reports: 05/18/2011
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
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: 02/07/2011
Date Data Arrived at EDR: 04/28/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 19

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
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: 02/07/2011
Date Data Arrived at EDR: 04/29/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 18

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/25/2011
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: 06/09/2011
Date Data Arrived at EDR: 06/09/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
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: 09/09/2010
Date Data Arrived at EDR: 09/15/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 14

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/18/2011
Next Scheduled EDR Contact: 06/27/2011
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010
Date Data Arrived at EDR: 11/16/2010
Date Made Active in Reports: 01/25/2011
Number of Days to Update: 70

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
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: 05/16/2011
Next Scheduled EDR Contact: 08/16/2011
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: 05/31/2011
Next Scheduled EDR Contact: 08/29/2011
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: 03/30/2011
Date Data Arrived at EDR: 03/31/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 22
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/17/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
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: 04/19/2011
Date Data Arrived at EDR: 04/20/2011
Date Made Active in Reports: 05/17/2011
Number of Days to Update: 27
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/21/2011
Date Data Arrived at EDR: 03/22/2011
Date Made Active in Reports: 04/20/2011
Number of Days to Update: 29
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

SANTA CLARA COUNTY:

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: 05/29/2009
Date Data Arrived at EDR: 06/01/2009
Date Made Active in Reports: 06/15/2009
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 06/06/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009
Date Data Arrived at EDR: 08/31/2009
Date Made Active in Reports: 09/18/2009
Number of Days to Update: 18

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 11/22/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/30/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
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: 03/21/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 04/21/2011
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/21/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 28

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/05/2011
Date Data Arrived at EDR: 04/06/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 36

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/18/2011
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/14/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 9

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/13/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Semi-Annually

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: 01/26/2011
Date Data Arrived at EDR: 02/25/2011
Date Made Active in Reports: 03/22/2011
Number of Days to Update: 25

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
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: 04/01/2011
Date Data Arrived at EDR: 04/07/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 35

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/07/2011
Next Scheduled EDR Contact: 07/25/2011
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: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
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: 04/26/2011
Date Data Arrived at EDR: 05/03/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 43
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
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: 03/01/2011
Date Data Arrived at EDR: 03/23/2011
Date Made Active in Reports: 04/22/2011
Number of Days to Update: 30
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/23/2011
Next Scheduled EDR Contact: 07/04/2011
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 01/25/2011
Date Data Arrived at EDR: 02/03/2011
Date Made Active in Reports: 03/04/2011
Number of Days to Update: 29
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/11/2011
Next Scheduled EDR Contact: 07/11/2011
Data Release Frequency: Annually

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: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16
Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/26/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
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: 12/31/2010
Date Data Arrived at EDR: 05/12/2011
Date Made Active in Reports: 05/24/2011
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/12/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/04/2011
Next Scheduled EDR Contact: 07/06/2011
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/31/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/21/2011
Next Scheduled EDR Contact: 07/04/2011
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

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PCC LAS POSAS AND MISSION ROADS
LAS POSAS ROAD/MISSION ROAD
SAN MARCOS, CA 92069

TARGET PROPERTY COORDINATES

Latitude (North):	33.14890 - 33° 8' 56.0''
Longitude (West):	117.1875 - 117° 11' 15.0''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	482513.6
UTM Y (Meters):	3667618.2
Elevation:	583 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33117-B2 SAN MARCOS, CA
Most Recent Revision:	1996

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

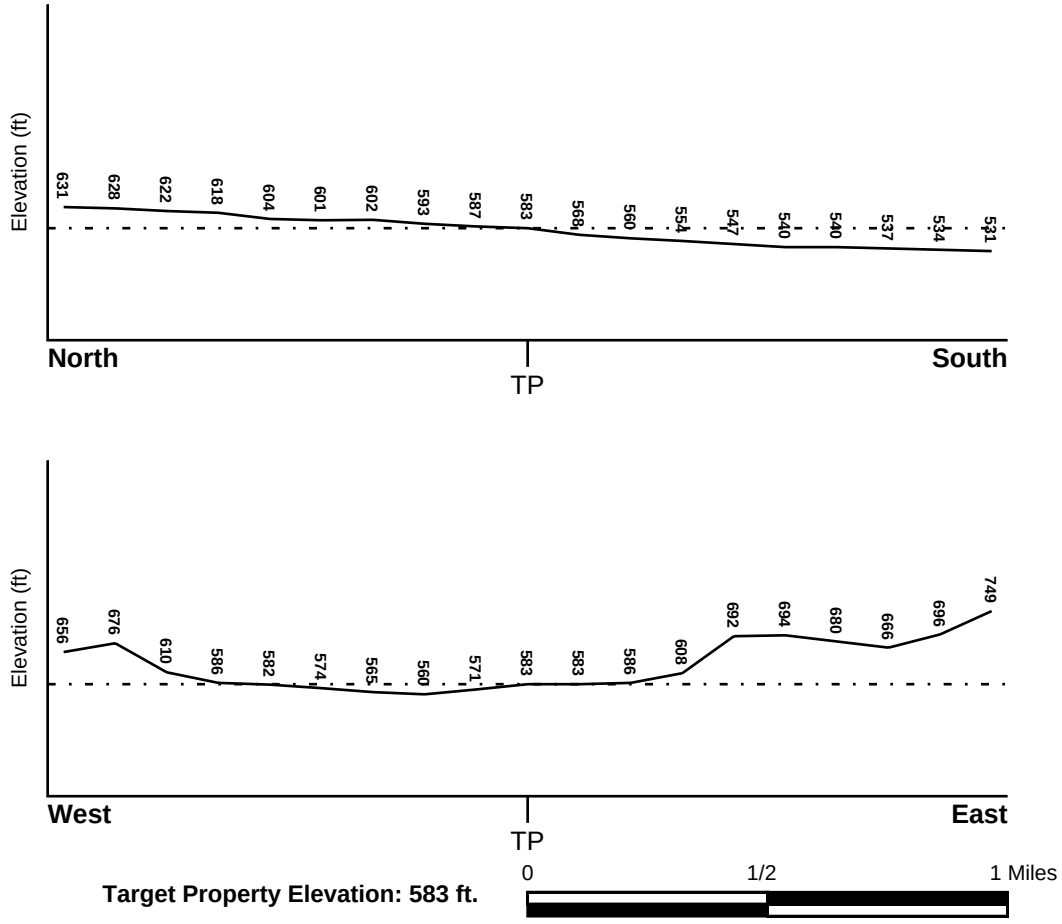
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
SAN DIEGO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06073C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
SAN MARCOS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/4 - 1/2 Mile SSE	S
2	1/4 - 1/2 Mile SW	Not Reported
3	1/2 - 1 Mile WNW	SSE
A4	1/2 - 1 Mile SSE	Not Reported
A5	1/2 - 1 Mile SSE	Not Reported
B6	1/2 - 1 Mile SW	NE
B7	1/2 - 1 Mile SW	E

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

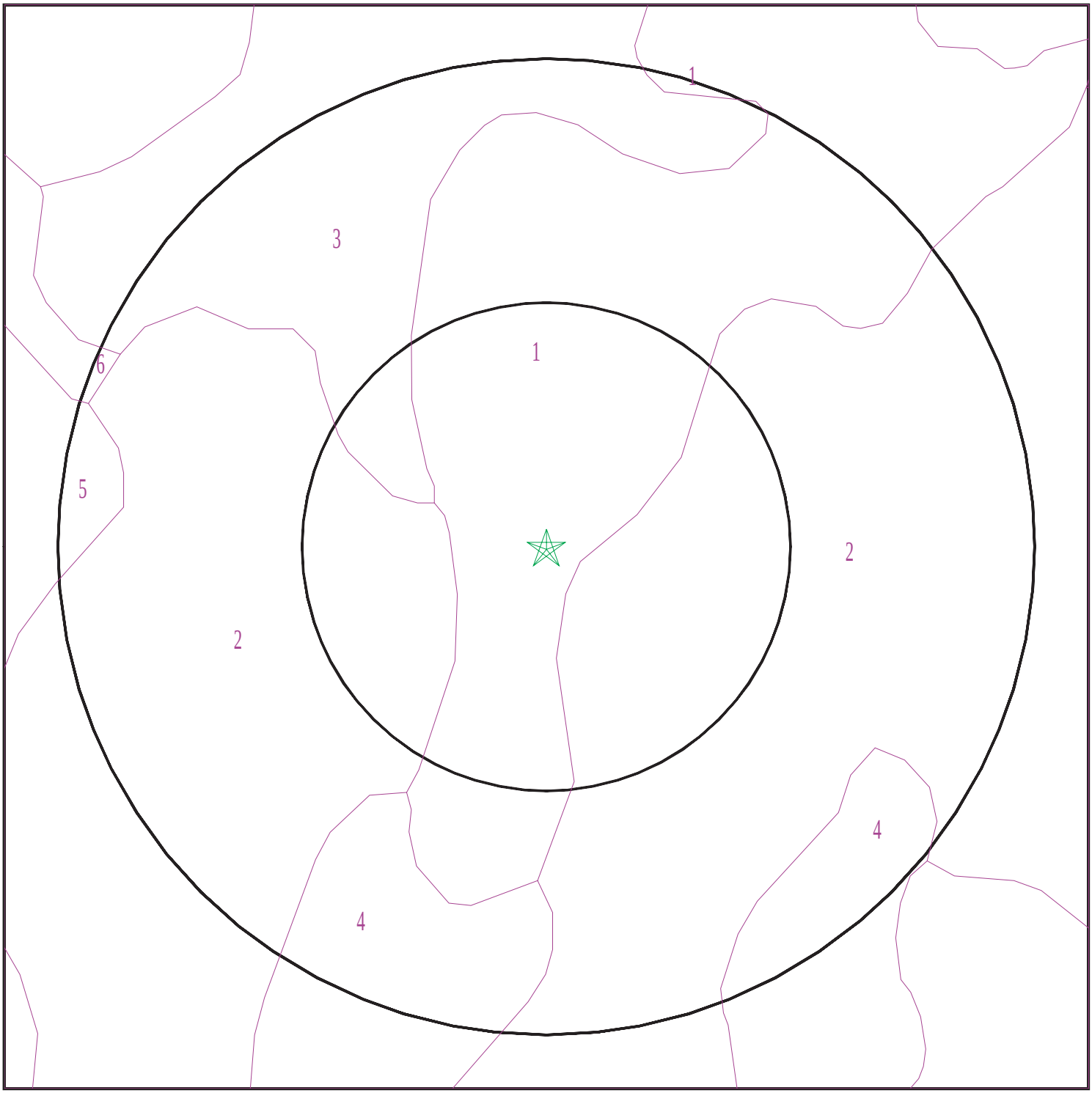
Era:	Mesozoic
System:	Lower Jurassic and Upper Triassic
Series:	Lower Mesozoic
Code:	lMze *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3095719.2s



SITE NAME:	PCC Las Posas and Mission Roads	CLIENT:	Ninyo & Moore
ADDRESS:	Las Posas Road/Mission Road San Marcos CA 92069	CONTACT:	Lisa Bestard
LAT/LONG:	33.1489 / 117.1875	INQUIRY #:	3095719.2s
		DATE:	June 15, 2011 1:28 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	11 inches	27 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	27 inches	46 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
5	46 inches	51 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: PLACENTIA

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.9

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	12 inches	33 inches	sandy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.9
3	33 inches	62 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.9

Soil Map ID: 3

Soil Component Name: HUERHUERO

Soil Surface Texture: loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	55 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	55 inches	72 inches	stratified sand to sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

Soil Map ID: 4

Soil Component Name: PLACENTIA

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	12 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.7

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	12 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.7
3	33 inches	62 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.42 Min: 0.01	Max: 8.4 Min: 7.7

Soil Map ID: 5

Soil Component Name: LAS FLORES

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	20 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	20 inches	29 inches	clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
3	29 inches	40 inches	sandy clay	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
4	40 inches	48 inches	loamy coarse sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:
5	48 inches	51 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6

Soil Component Name: ESCONDIDO

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 86 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	33 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	33 inches	38 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

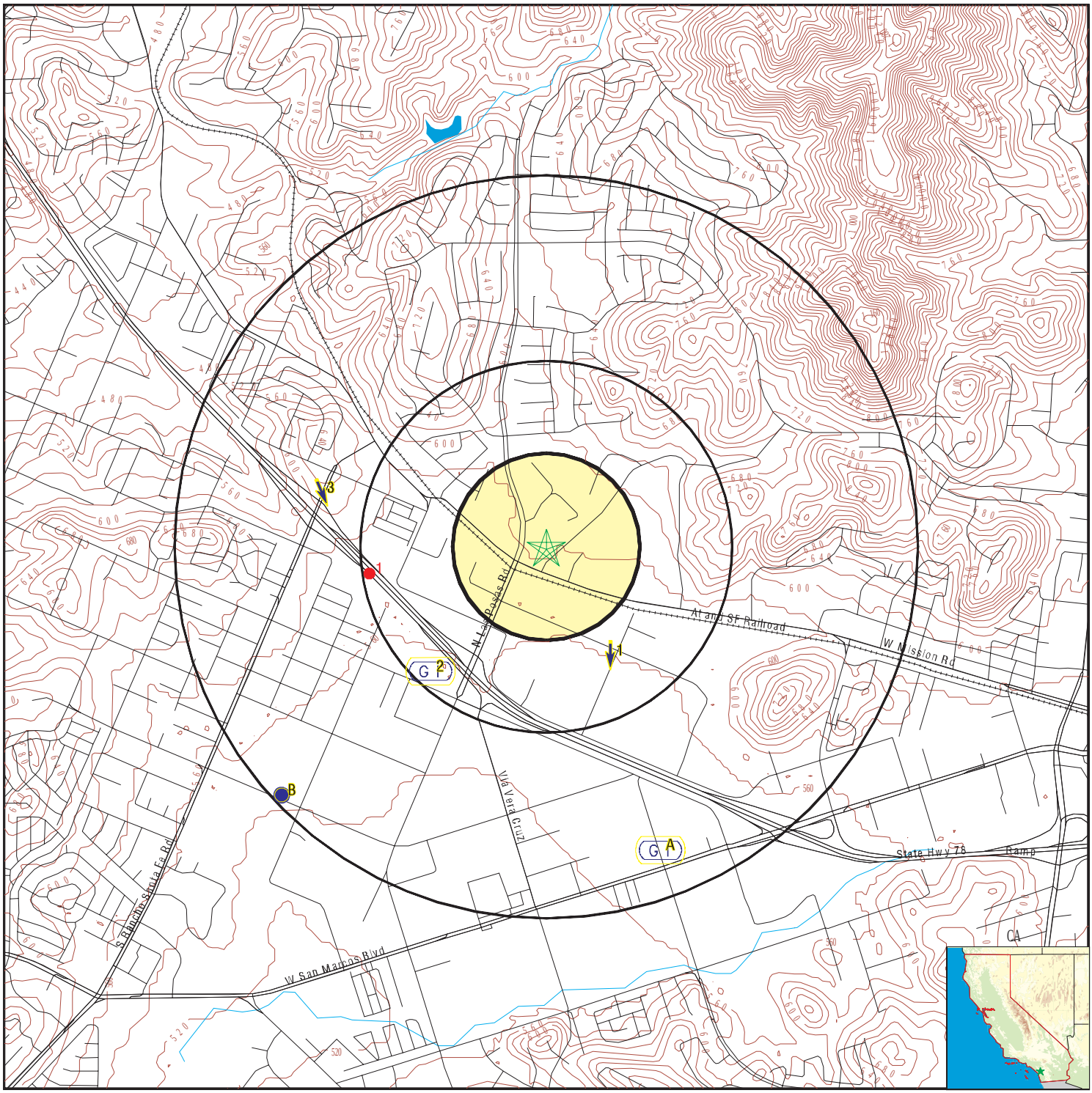
MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG60000004821	1/4 - 1/2 Mile West

PHYSICAL SETTING SOURCE MAP - 3095719.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: PCC Las Posas and Mission Roads	CLIENT: Ninyo & Moore
ADDRESS: Las Posas Road/Mission Road San Marcos CA 92069	CONTACT: Lisa Bestard
LAT/LONG: 33.1489 / 117.1875	INQUIRY #: 3095719.2s DATE: June 15, 2011 1:28 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **SSE** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported S 6.5 15 Not Reported 08/31/1993	**AQUIFLOW**	**34135**
2 **SW** **1/4 - 1/2 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported Not Reported Not Reported Not Reported 12 05/29/1987	**AQUIFLOW**	**38459**
3 **WNW** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SSE Not Reported Not Reported 30 10/15/1993	**AQUIFLOW**	**38806**
A4 **SSE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	9UT1516 Not Reported 10 16 Not Reported 02/15/1990	**AQUIFLOW**	**34181**
A5 **SSE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	9UT0782 Not Reported Not Reported Not Reported >30 10/09/1987	**AQUIFLOW**	**37970**
B6 **SW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported NE 7.5 15 Not Reported 07/1990	**AQUIFLOW**	**38309**
B7 **SW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	9UT0892 E Not Reported Not Reported 22.5 01/11/1989	**AQUIFLOW**	**34147**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
West
1/4 - 1/2 Mile

OIL_GAS **CAOG60000004821**

Apinumber:	07300014	Operator:	Davenport Oil & Gas Development Comany
Lease:	Not Reported	Well no:	1
Field:	SAN DIEGO COUNTY	Caog m2 area:	Not Reported
Map:	W1-7	Status cod:	002
Source:	hud		
Latitude27:	33.147815		
Longitude2:	-117.194843		
Latitude83:	33.147854		
Longitude8:	-117.195711		
Td:	0		
Sec:	9		
Twn:	12S	Rge:	3W
Bm:	SB		
X coord:	0		
Y coord:	0		
Zone:	Not Reported	Spuddate:	12/12/1968
Abanddate:	12/30/1899	Comments 1:	Not Reported
District:	1	Site id:	CAOG60000004821

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92069	29	2

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92069

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.833 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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.

HYDROLOGIC INFORMATION

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.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.3
June 15, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

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

Certified Sanborn® Map Report

6/15/11

Site Name:
PCC Las Posas and Mission
Las Posas Road/Mission Road
San Marcos, CA 92069

Client Name:
Ninyo & Moore
5710 Ruffin Rd
San Diego, CA 92123

EDR Inquiry # 3095719.3

Contact: Lisa Bestard

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Ninyo & Moore were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: PCC Las Posas and Mission Roads
Address: Las Posas Road/Mission Road
City, State, Zip: San Marcos, CA 92069
Cross Street:
P.O. # 106088039
Project: PCC/Las Posas & Mission Rd
Certification # C3E3-4F28-9EC4

Sanborn® Library search results
Certification # C3E3-4F28-9EC4

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.8
June 15, 2011

The EDR Property Tax Map Report

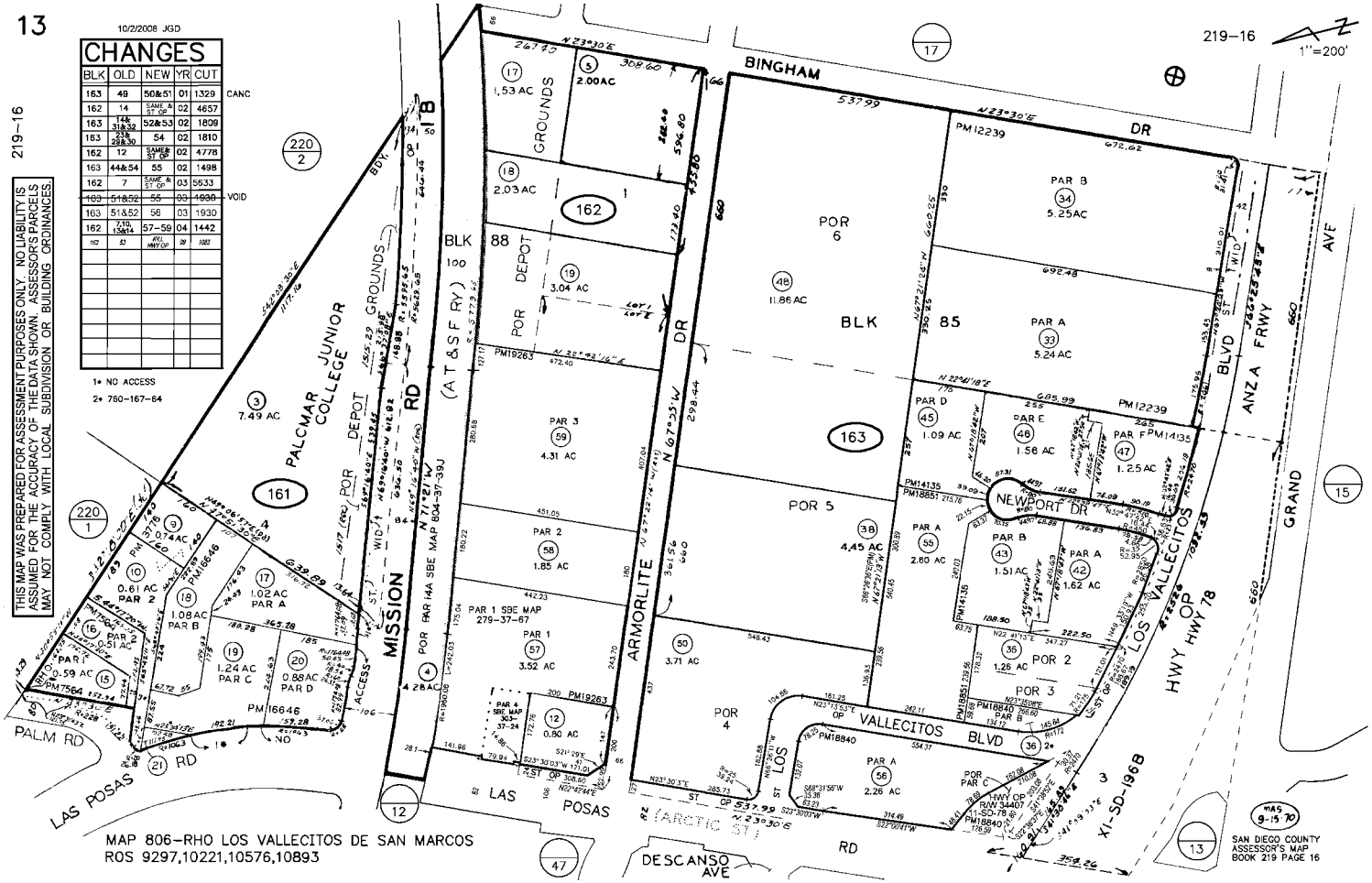
EDR® Environmental Data Resources Inc

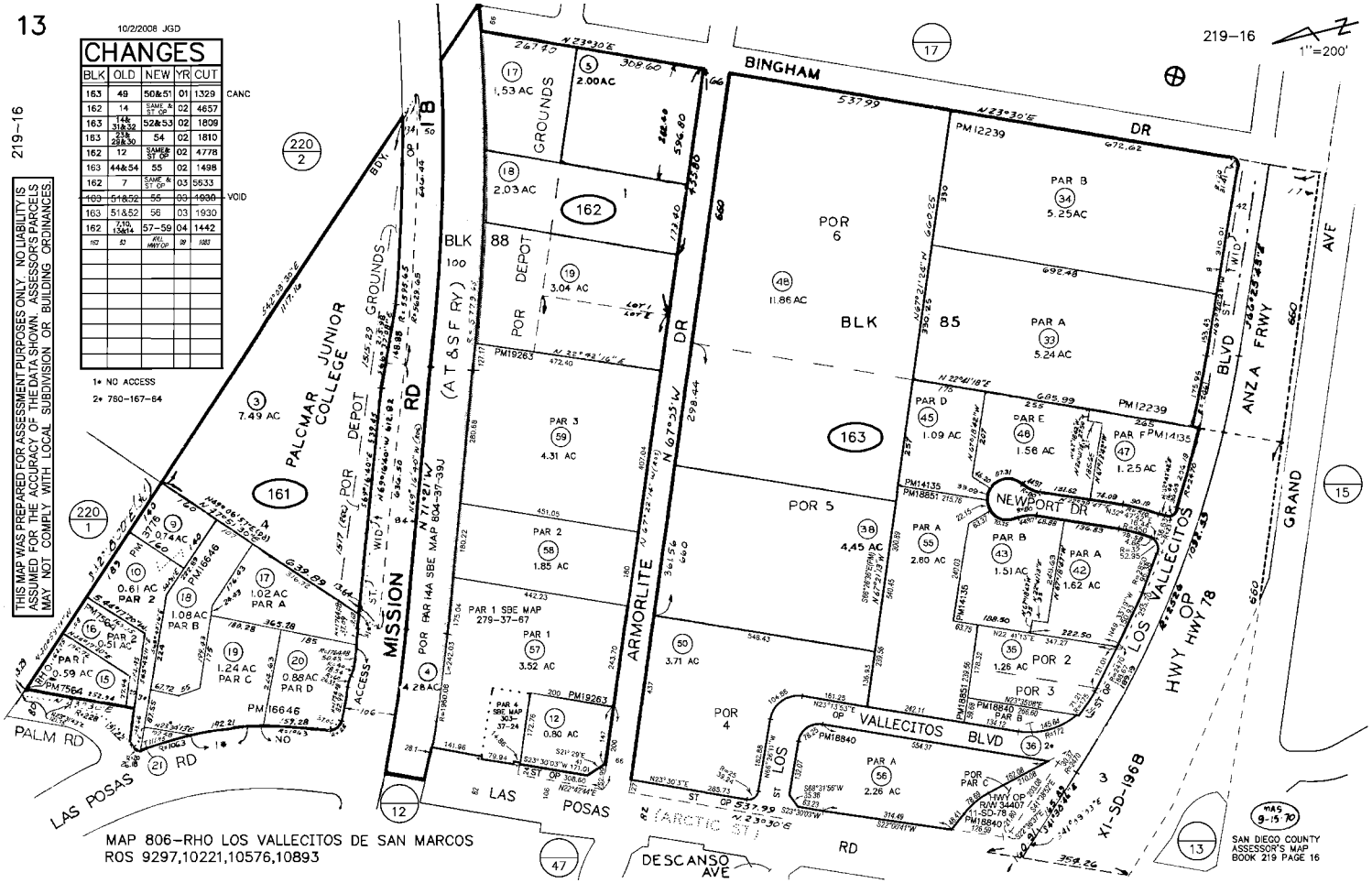
440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

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


13
219–16
10/2/2008 JGD
CHANGES
BLK | OLD | NEW | YR | CUT
163 | 49 | 50&51 | 01 | 1329 | CANC
162 | 14 | SAME & ST OP | 02 | 4657
163 | 146 318&32 | 52&53 | 02 | 1809
163 | 43& 288&30 | 54 | 02 | 1810
162 | 12 | SAME & ST OP | 02 | 4778
163 | 44&54 | 55 | 02 | 1498
162 | 7 | SAME & ST OP | 03 | 5633
163 | 51&52 | 55 | 03 | 1930 | VOID
163 | 51&52 | 56 | 03 | 1930
162 | 7,10, 13&14 | 57–59 | 04 | 1442
1* NO ACCESS
2* 780–167–64
THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.
219–16
1"=200'
BINGHAM DR
PALCMAR JUNIOR COLLEGE GROUNDS
DEPOT
BLK 88
BLK 85
BLK 100
(A T & S F RY)
MISSION RD
ARMORLITE DR
NEWPORT DR
LOS VALLECITOS BLVD
HWY 78
ANZA FRWY
GRAND AVE
PALM RD
LAS POSAS RD
DESCANSO AVE
ARCTIC ST
VALLECITOS BLVD
POR 6
POR 5
POR 4
POR 3
POR 2
PAR 1 SBE MAP 279–37–67
PAR 4 SBE MAP 303–37–24
PAR 14A SBE MAP 804–37–39J
PM12239
PM19263
PM16646
PM7564
PM14135
PM18851
PM18840
MAP 806–RHO LOS VALLECITOS DE SAN MARCOS
ROS 9297,10221,10576,10893
SAN DIEGO COUNTY ASSESSOR'S MAP BOOK 219 PAGE 16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219–16
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PALCMAR JUNIOR COLLEGE GROUNDS
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(A T & S F RY)
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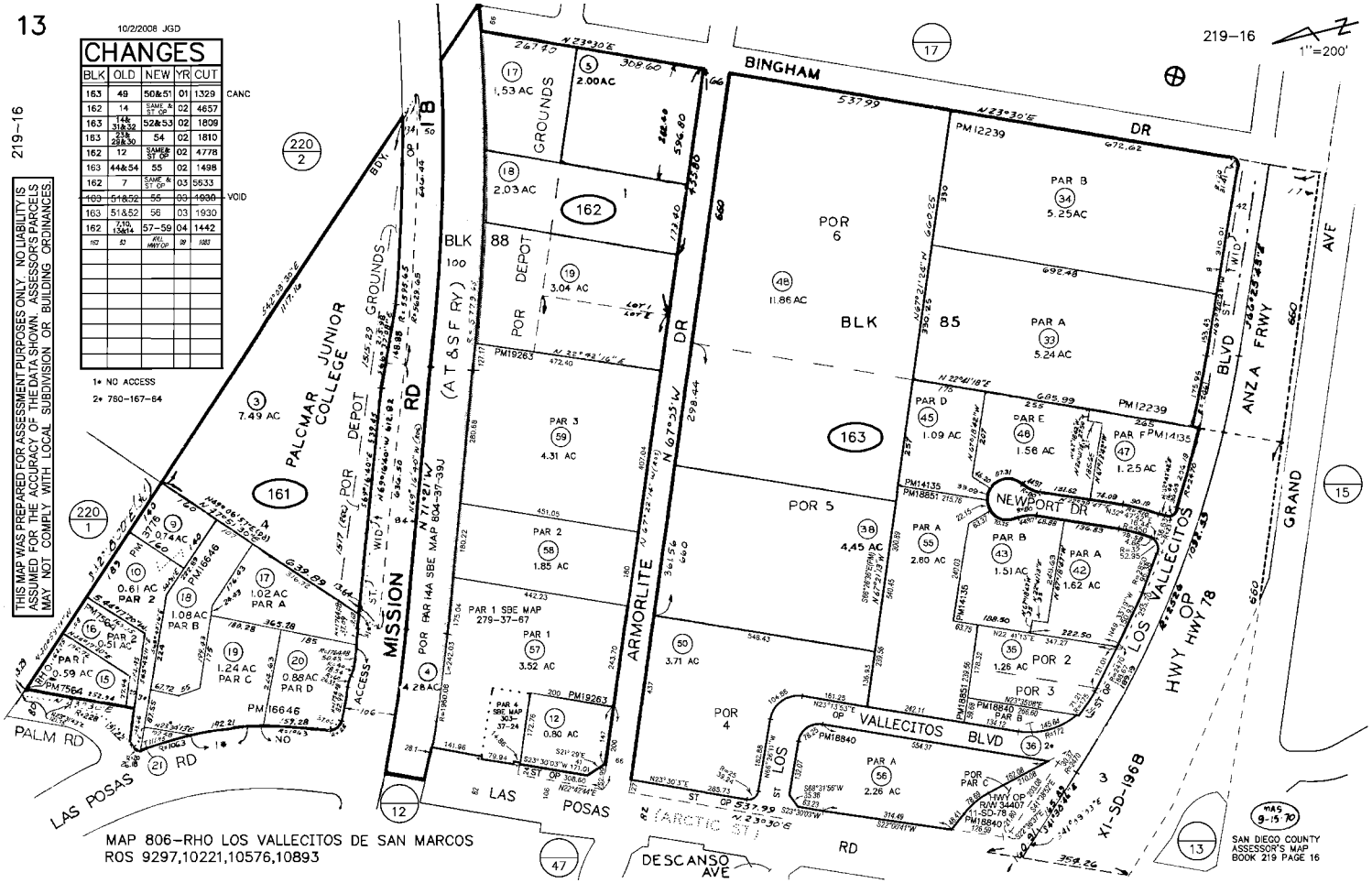
ROS 9297,10221,10576,10893
219–16
1"=200'
MAS 9-15-70
SAN DIEGO COUNTY ASSESSOR'S MAP BOOK 219 PAGE 16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219-16
10/2/2008 JGD
CHANGES
BLK | OLD | NEW | YR | CUT
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162 | 14 | SAME & ST OP | 02 | 4657
163 | 146 318&32 | 52&53 | 02 | 1809
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163 | 44&54 | 55 | 02 | 1498
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PM16646
PM7564
MAP 806-RHO LOS VALLECITOS DE SAN MARCOS
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SAN DIEGO COUNTY ASSESSOR'S MAP BOOK 219 PAGE 16

PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.4
June 15, 2011

EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

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

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

Historical Topographic Map

N	TARGET QUAD		SITE NAME:	PCC Las Posas and Mission Roads	CLIENT: Ninyo & Moore
	NAME:	SAN LUIS REY			CONTACT: Lisa Bestard
	MAP YEAR:	1901	ADDRESS:	Las Posas Road/Mission Road San Marcos, CA 92069	INQUIRY#: 3095719.4
	SERIES:	30	LAT/LONG:	33.1489 / -117.1875	RESEARCH DATE: 06/15/2011
	SCALE:	1:125000			

Historical Topographic Map

N	TARGET QUAD NAME: ESCONDIDO MAP YEAR: 1901 SERIES: 15 SCALE: 1:62500	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

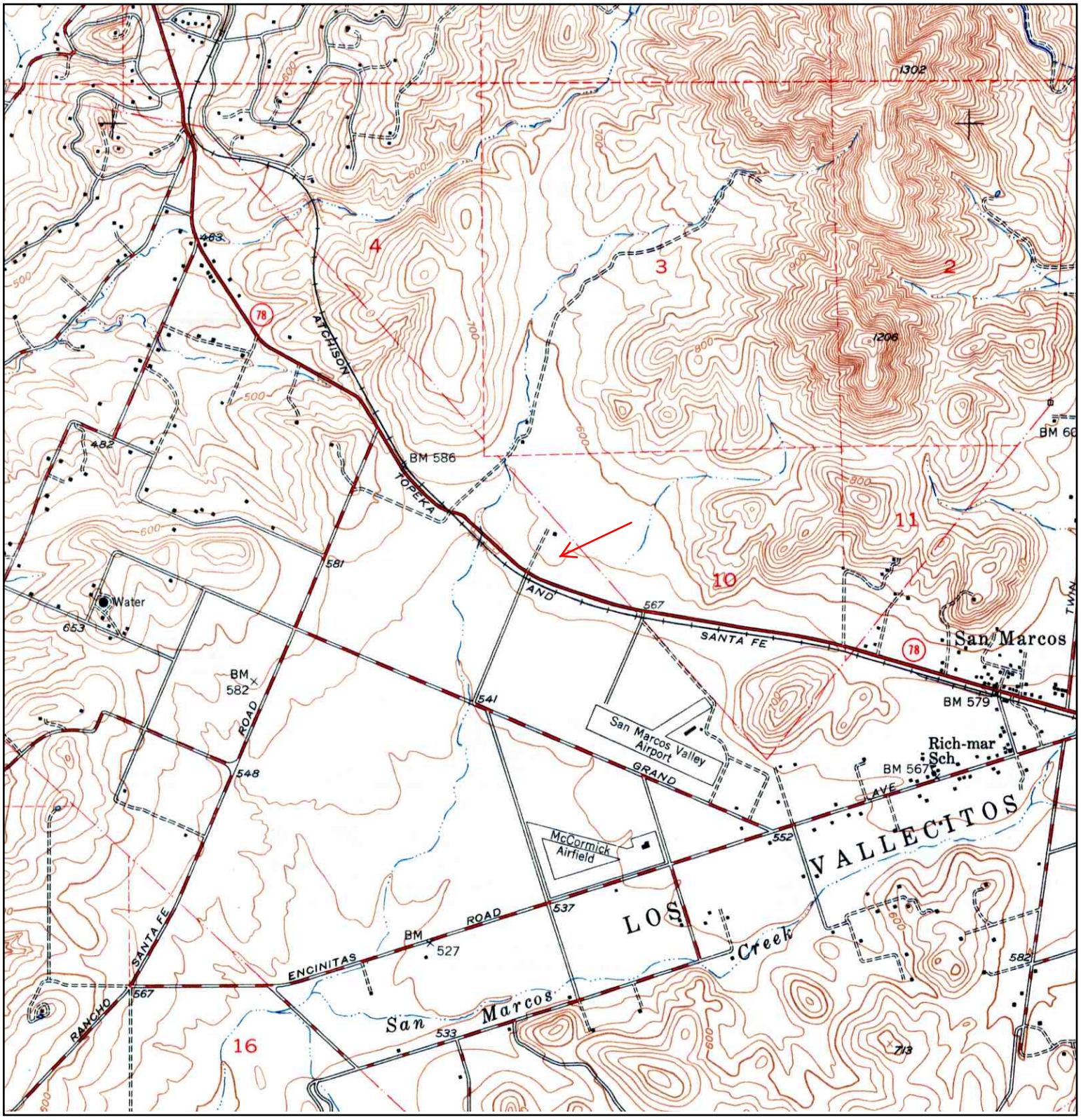
Historical Topographic Map

N	TARGET QUAD NAME: SOUTHERN CA SHEET 2 MAP YEAR: 1904 SERIES: 60 SCALE: 1:250000	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

Historical Topographic Map

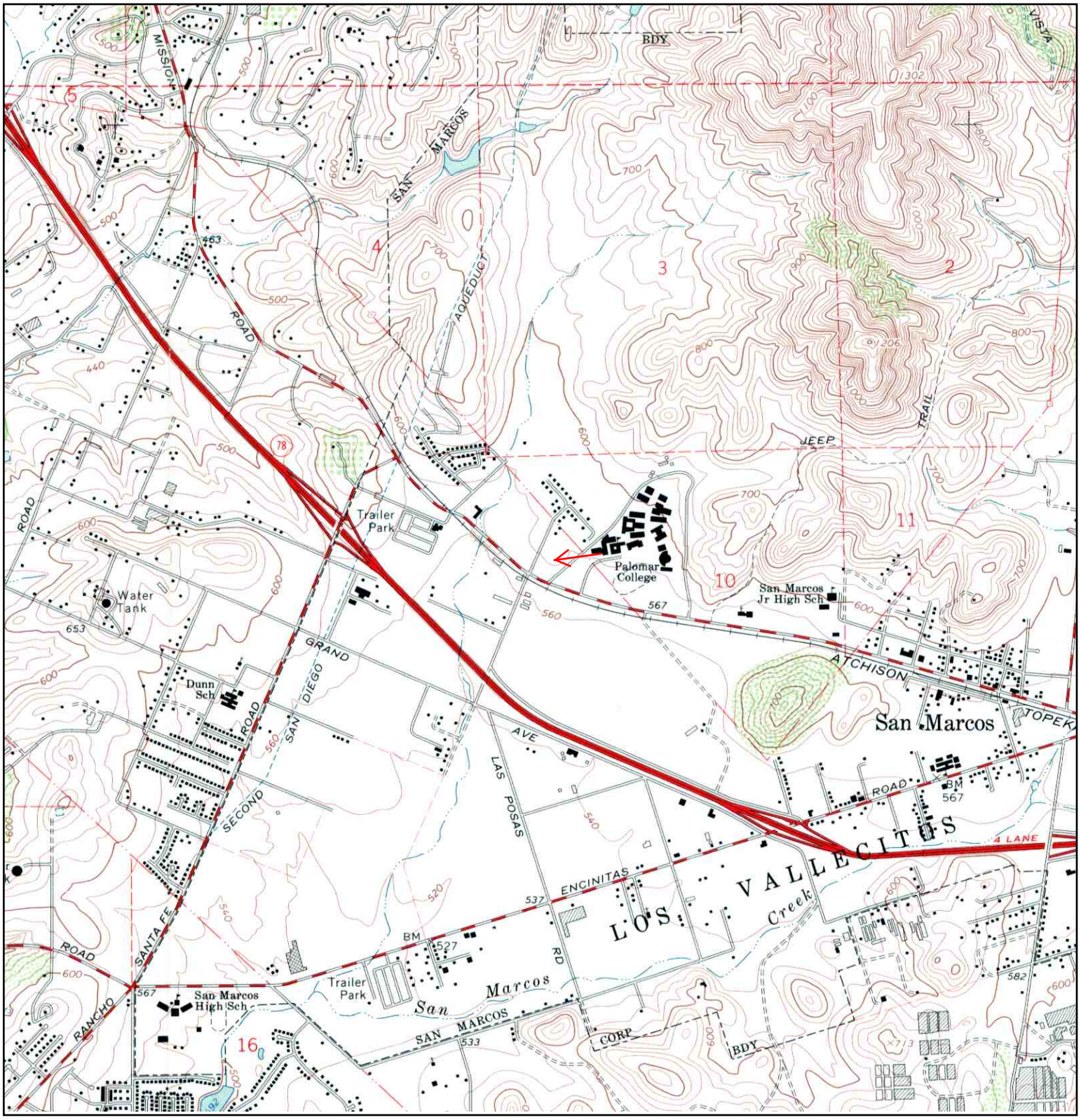
N	TARGET QUAD NAME: ESCONDIDO MAP YEAR: 1947 SERIES: 15 SCALE: 1:50000	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

Historical Topographic Map



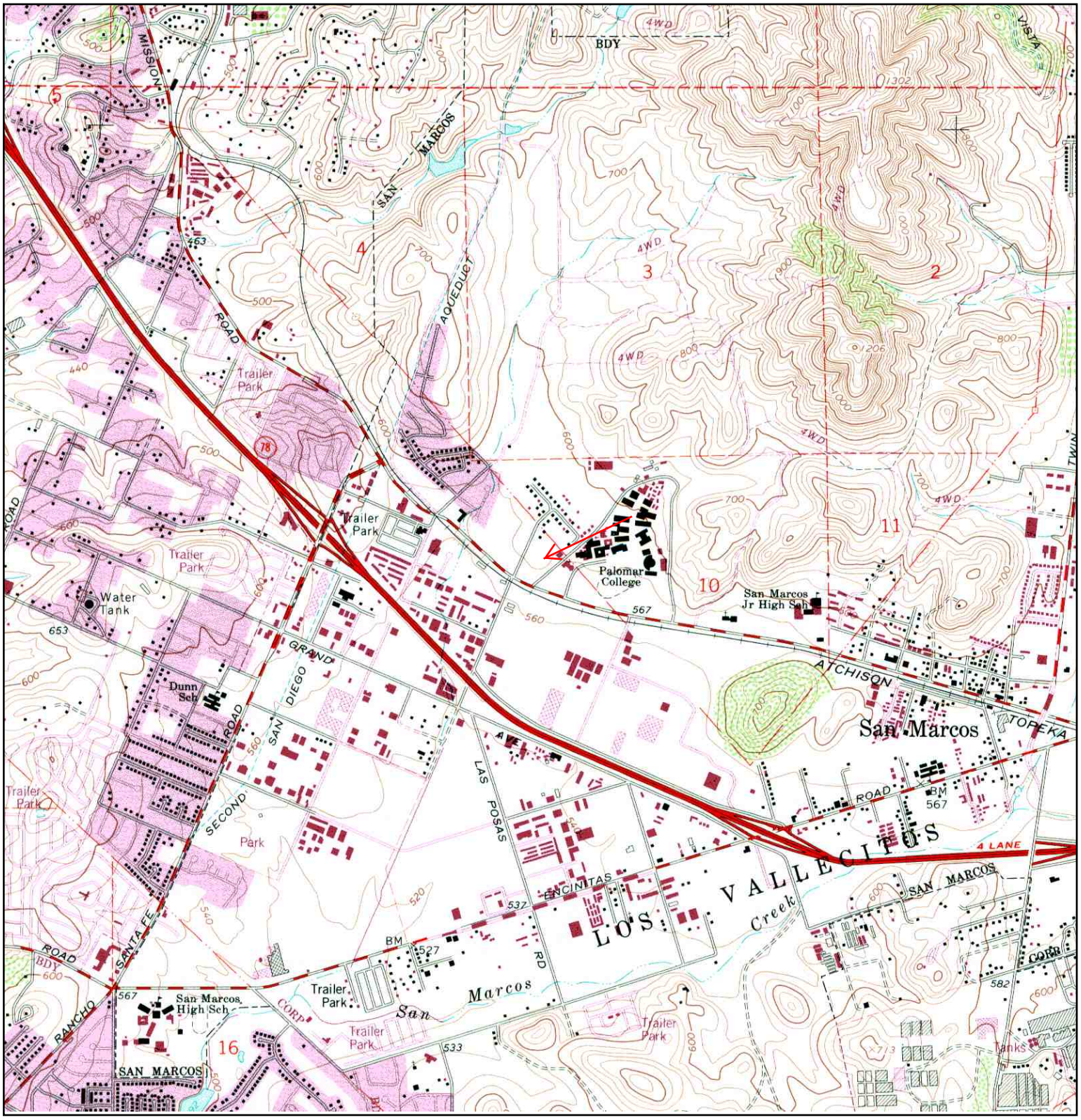
N	TARGET QUAD NAME: SAN MARCOS MAP YEAR: 1949 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

Historical Topographic Map



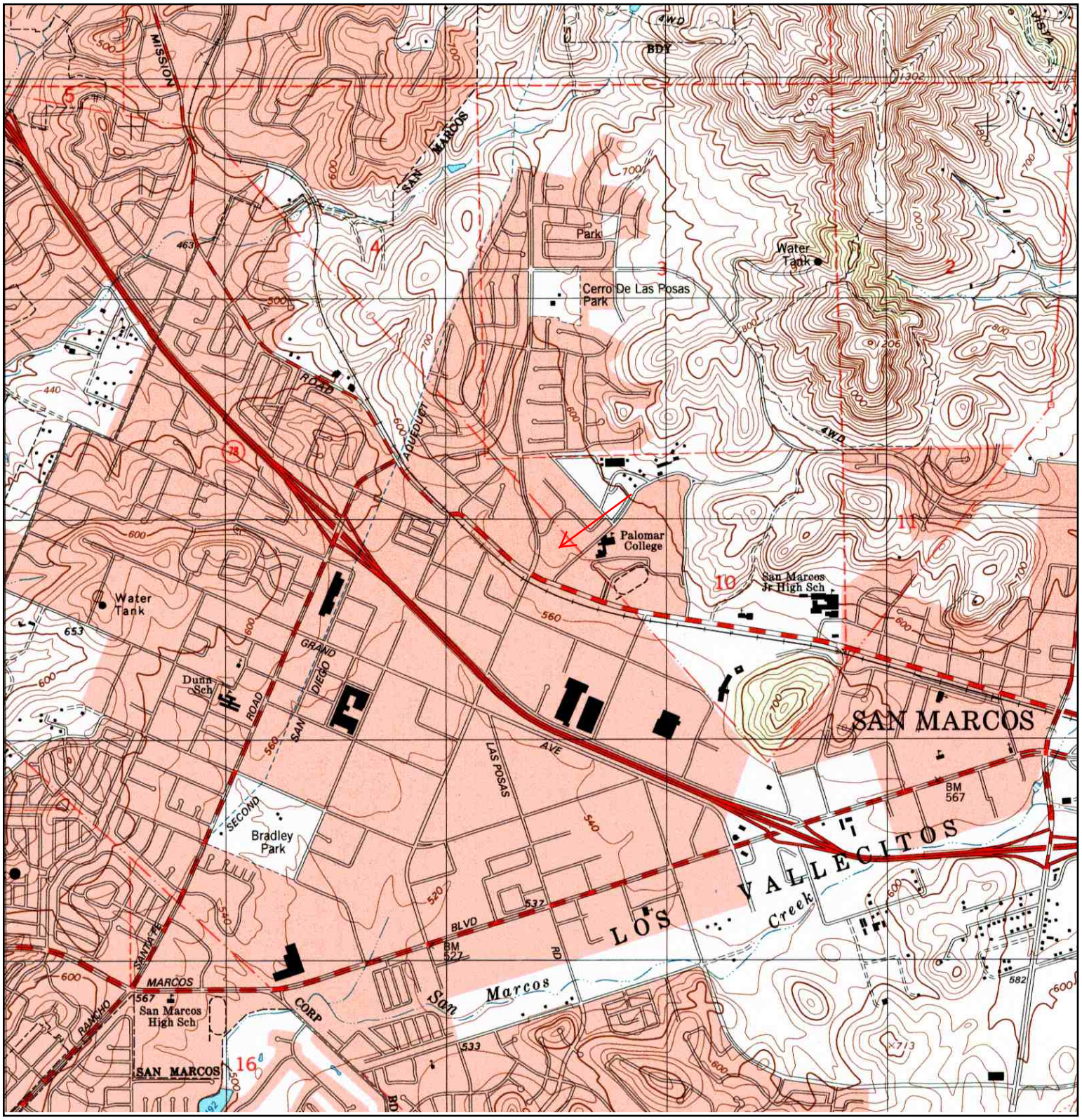
N	TARGET QUAD NAME: SAN MARCOS MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

Historical Topographic Map



N	TARGET QUAD NAME: SAN MARCOS MAP YEAR: 1983 PHOTOREVISED:1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

Historical Topographic Map



N	TARGET QUAD NAME: SAN MARCOS MAP YEAR: 1996 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Las Posas and Mission Roads ADDRESS: Las Posas Road/Mission Road San Marcos, CA 92069 LAT/LONG: 33.1489 / -117.1875	CLIENT: Ninyo & Moore CONTACT: Lisa Bestard INQUIRY#: 3095719.4 RESEARCH DATE: 06/15/2011

PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.7
June 16, 2011

The EDR Environmental LienSearch™ Report

Environmental Data Resources Inc

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

The EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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

The EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

Las Posas Road/Mission Road
PCC Las Posas and Mission Roads
San Marcos, CA 92069

RESEARCH SOURCE

Source 1:

San Diego county recorder
San Diego, CA

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Deed
Title is vested in:	North county Land Partners
Title received from:	Pacifica Realty XIII LP
Deed Dated	1/31/2005
Deed Recorded:	2/17/2005
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	na
Legal Description:	see exhibit
Legal Current Owner:	North County Land Partnership
Property Identifiers:	219-161-18-00, 219-161-19-00, 219-616-17-00, 219-161-21-00
Comments:	see exhibit

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found ☐ Not Found ☒

Deed Exhibit 1

RECORDING REQUESTED BY

Judkins, Glatt & Getz LLP

AND WHEN RECORDED MAIL THIS DEED AND, UNLESS OTHERWISE SHOWN BELOW, MAIL TAX STATEMENT TO:

Name Pacifica Enterprises LLC

Street Address 5505 Cancha de Golf

18064

City, State, Zip Rancho Santa Fe, CA 92029

Title Order No._____ Escrow No. _____

DOC # 2005-0137617

FEB 17, 2005 3:27 PM

OFFICIAL RECORDS
SAN DIEGO COUNTY RECORDER'S OFFICE
GREGORY J. SMITH, COUNTY RECORDER
FEES: 17.00
OC: OC
PAGES: 4

SPACE ABO

2005-0137617

QUITCLAIM DEED

THE UNDERSIGNED GRANTOR(s) DECLARE(s)

DOCUMENTARY TRANSFER TAX IS $-0- R&T 11911 This conveyance confirms a change of name and the
_____ unincorporated area __x_ City of San Marcos grantor and grantee are the same party
Assessors Parcel No. 219-161-17,18,19,21 and 00
_____ computed on full value of interest or property conveyed, or
_____ computed on full value less liens or encumbrances remaining at time of sale, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Pacifica Realty XIII, L.P., a California limited partnership

hereby REMISE, RELEASE AND FOREVER QUITCLAIM to North County Land Partners L.P., a California limited partnership

the following described real property in the City of San Marcos, County of San Diego, State of California:

[See legal description attached as Exhibit A]

Dated: 01/31/05

Pacifica Realty XIII, L.P., a California limited partnership

By: CBC Investments, Inc., a California corporation, General Partner

By: _____
Dario De Luca, VP

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO) s.s.

On January 31, 2005 before me, Daniela M. Marrone, a Notary Public in and for said County and State, personally appeared Dario DeLuca, personally known to me ~~(or proved to me on the basis of satisfactory evidence)~~ to be the person(s) whose name is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument, the person(s), or the entity(ies) upon behalf of which the person(s) acted, executed the within instrument.

WITNESS my hand and official seal.

Daniela M. Marrone

DANIELA M. MARRONE
Commission # 1497331
Notary Public - California
San Diego County
My Comm. Expires Jun 27, 2008

Las Posas

219-161-17, 18, 19, 21 & 00

EXHIBIT "A"

PARCEL 1:

PARCEL A OF PARCEL MAP 16646, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, SEPTEMBER 25, 1991.

EXCEPTING THEREFROM PARCEL A ABOVE, ONE-HALF OF ALL OIL, GAS AND MINERALS AS RESERVED BY THE VISTA IRRIGATION DISTRICT IN DEED RECORDED FEBRUARY 16, 1939 IN BOOK 861 PAGE 414 OF OFFICIAL RECORDS, WITHOUT, HOWEVER, THE RIGHT TO ENTER UPON SAID LAND TO BORE WELLS AND MAKE EXCAVATIONS AS RELEASED IN DEED RECORDED OCTOBER 10, 1983 AS FILE/PAGE NO. 83-362643 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM PARCEL A ABOVE, ONE-HALF OF ALL MINERALS, CARBONS, HYDROCARBONS, OIL, GAS CHEMICAL ELEMENTS AND COMPOUNDS, WHETHER IN SOLID, LIQUID OR GASEOUS FORM AND ALL STEAM AND OTHER FORMS OF THERMAL ENERGY, ON, IN OR UNDER THE LAND, WITH INGRESS AND EGRESS FOR SAME, WAIVING HOWEVER, ALL RIGHT OF SURFACE ENTRY AS RESERVED BY CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE IN DEED RECORDED OCTOBER 10, 1983 AS FILE/PAGE NO. 83-362644 OF OFFICIAL RECORDS.

EXCEPTING FROM THAT PORTION OF SAID PARCEL A, WHICH LIES WITHIN THE BOUNDARIES OF DEPOT GROUNDS IN BLOCK 88 ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1985, ALL OIL, GAS, AND MINERAL SUBSTANCES IN AND UNDER SAID LAND, BUT WITHOUT THE RIGHT TO GO UPON SAID LAND FOR THE PURPOSE OF DRILLING, DIGGING, OR EXCAVATING THEREIN OR THEREON FOR ANY OF SUCH SUBSTANCES AS RESERVED BY THE ATCHINSON, TOPEKA AND SANTA FE RAILWAY COMPANY, IN DEED RECORDED OCTOBER 11, 1945 IN BOOK 1961, PAGE 127 OF OFFICIAL RECORDS.

PARCEL 2:

PARCEL B OF PARCEL MAP 16646, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, SEPTEMBER 25, 1991.

18066

EXCEPTING THEREFROM PARCEL B ABOVE, ONE-HALF OF ALL OIL, GAS AND MINERALS AS RESERVED BY THE VISTA IRRIGATION DISTRICT IN DEED RECORDED FEBRUARY 16, 1939 IN BOOK 861 PAGE 414 OF OFFICIAL RECORDS, WITHOUT, HOWEVER, THE RIGHT TO ENTER UPON SAID LAND TO BORE WELLS AND MAKE EXCAVATIONS AS RELEASED IN DEED RECORDED OCTOBER 10, 1983 AS FILE/PAGE NO. 83-362643 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM PARCEL B ABOVE, ONE-HALF OF ALL MINERALS, CARBONS, HYDROCARBONS, OIL, GAS CHEMICAL ELEMENTS AND COMPOUNDS, WHETHER IN SOLID, LIQUID OR GASEOUS FORM AND ALL STEAM AND OTHER FORMS OF THERMAL ENERGY, ON, IN OR UNDER THE LAND, WITH INGRESS AND EGRESS FOR SAME, WAIVING HOWEVER, ALL RIGHT OF SURFACE ENTRY AS RESERVED BY CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE IN DEED RECORDED OCTOBER 10, 1983 AS FILE/PAGE NO. 83-362644 OF OFFICIAL RECORDS.

PARCEL 3:

PARCEL C OF MAP 16646, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, SEPTEMBER 25, 1991.

EXCEPTING FROM THAT PORTION OF SAID PARCEL C, WHICH LIES WITHIN THE BOUNDARIES OF DEPOT GROUNDS IN BLOCK 88 ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, DECEMBER 21, 1985, ALL OIL, GAS AND MINERALS SUBSTANCES IN AND UNDER SAID LAND, BUT WITHOUT THE RIGHT TO GO UPON SAID LAND FOR THE PURPOSE OF DRILLING, DIGGING, OR EXCAVATING THEREIN OR THEREON FOR ANY OF SUCH SUBSTANCES AS RESERVED BY THE ATCHINSON, TOPEKA AND SANTA FE RAILWAY COMPANY, IN DEED RECORDED OCTOBER 11, 1945 IN BOOK 1961, PAGE 127 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM ONE-HALF OF ALL OIL, GAS AND MINERALS IN SAID LANDS AS RESERVED BY THE VISTA IRRIGATION DISTRICT IN DEED RECORDED FEBRUARY 16, 1939 IN BOOK 861, PAGE 414 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM PARCEL C ABOVE, ONE-HALF OF ALL MINERALS, CARBONS, HYDROCARBONS, OIL, GAS CHEMICAL ELEMENTS AND COMPOUNDS, WHETHER IN SOLID, LIQUID OR GASEOUS FORM AND ALL STEAM AND OTHER FORMS OF THERMAL ENERGY, ON, IN OR UNDER THE LAND, WITH INGRESS AND EGRESS FOR SAME, WAIVING HOWEVER, ALL RIGHT OF SURFACE ENTRY AS RESERVED BY CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS, A UTAH CORPORATION SOLE IN DEED RECORDED OCTOBER 10, 1983 AS FILE/PAGE NO. 83-362644 OF OFFICIAL RECORDS.

PARCEL 4:

THOSE PORTIONS OF LOT 2 IN BLOCK 101 OF RANCHO LOS VALLECITOS DE SAN MARCOS, IN THE CITY OF SAN MARCOS, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 806, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY. DECEMBER 21, 1895, AND ARCTIC STREET (NOW KNOWN AS PALM ROAD) LYING BETWEEN BLOCKS 88 AND 101 OF SAID MAP NO. 806, DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST NORTHERLY CORNER OF SAID BLOCK 88 OF MAP NO. 806; THENCE ALONG THE WESTERLY LINE OF SAID BLOCK, SOUTH 23° 31' 43" WEST, 569.39 FEET TO THE CUSP OF A 1063.00 FOOT RADIUS CURVE CONCAVE WESTERLY, A RADIAL TO SAID POINT BEARS SOUTH 78° 31' 47" EAST; THENCE LEAVING SAID WESTERLY LINE, NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGEL OF 14° 53' 59" AN ARC LENGTH OF 276.43 FEET TO THE BEGINNING OF A REVERSE 20.00 FOOT RADIUS CURVE CONCAVE SOUTHEASTERLY, A RADIAL TO SAID POINT BEARS SOUTH 86° 34' 14" WEST; THENCE NORTHERLY AND EASTERLY ALONG THE ARC OF SAID 20.00 FOOT RADIUS CURVE, THROUGH A CENTRAL ANGLE OF 75° 00' 38" AN ARC LENGTH OF 26.18 FEET TO THE BEGINNING OF A REVERSE 228.00 FOOT RADIUS CURVE CONCAVE NORTHWESTERLY, A RADIAL TO SAID POINT BEARS NORTH 18° 25' 08" WEST; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE, THROUGH A CENTRAL ANGEL OF 48° 03' 09" AN ARC LENGTH OF 191.22 FEET TO A LINE PARALLEL WITH AND 12.00 FEET NORTHWESTERLY OF SAID WESTERLY LINE OF BLOCK 88; THENCE ALONG SAID PARALLEL LINE NORTH 23° 31' 43" EAST, 121.75 FEET TO THE NORTHERLY LINE OF RANCHO LOS VALLECITOS DE SAN MARCOS, AS SHOWN ON SAID MAP NO. 806; THENCE ALONG SAID NORTHERLY LINE, SOUTH 41° 01' 54" EAST, 13.29 FEET TO THE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION OF THE ABOVE DESCRIBED PARCEL WHICH LIES NORTHERLY OF THE NORTHWESTERLY PROLONGATION OF THE SOUTHERLY LINE OF PARCEL 2 OF PARCEL MAP NO. 3776, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, MAY 14, 1975 AS INSTRUMENT NO. 75-117161 OF OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THAT PORTION LYING WITHIN PARCEL C OF PARCEL MAP 166646.

PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.6
June 17, 2011

The EDR-City Directory Abstract

Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION

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

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2008	Haines Criss-Cross Directory	-	X	X	-
2001	Haines Criss-Cross Directory	-	X	X	-
1994	Haines Criss-Cross Directory	-	X	X	-
1988	Haines Criss-Cross Directory	-	X	X	-
1980	Haines Criss-Cross Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
1302 Mission Road	Client Entered	
349 North Las Posas Road	Client Entered	X
355 North Las Posas Road	Client Entered	X
1140 West Mission Road	Client Entered	X
1290 West Mission Road	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Las Posas Road/Mission Road
San Marcos, CA 92069

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

North Las Posas Road

349 North Las Posas Road

Year	Uses	Source
2001	No Return	Haines Criss-Cross Directory
1994	No Return	Haines Criss-Cross Directory
1988	Church Jesus Christ	Haines Criss-Cross Directory
1980	Church Jesus Christ	Haines Criss-Cross Directory

355 North Las Posas Road

Year	Uses	Source
1980	No Return	Haines Criss-Cross Directory

West Mission Road

1140 West Mission Road

Year	Uses	Source
2008	California English School	Haines Criss-Cross Directory
	Palomar Clg	Haines Criss-Cross Directory
	So Illinois University	Haines Criss-Cross Directory
2001	Office Building (5 Occupants)	Haines Criss-Cross Directory
1994	Ca English School	Haines Criss-Cross Directory
	Palomar Clg	Haines Criss-Cross Directory
	Pepes Mexican Csne	Haines Criss-Cross Directory
1988	Palomar Clg Admsn	Haines Criss-Cross Directory
1980	Palomar Community College	Haines Criss-Cross Directory

1290 West Mission Road

Year	Uses	Source
2008	Don Harms Inc	Haines Criss-Cross Directory
2001	Sanmarcos Mobil	Haines Criss-Cross Directory
1994	Mobil Oil Corp	Haines Criss-Cross Directory

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

Street Researched	Street Not Identified in Research Source
Mission Road	2008, 2001, 1994, 1988, 1980

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Las Posas Road/Mission Road	2008, 2001, 1994, 1988, 1980

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1140 West Mission Road	No Years Found
1290 West Mission Road	1988, 1980
1302 Mission Road	No Years Found
349 North Las Posas Road	2008
355 North Las Posas Road	2008, 2001, 1994, 1988

PCC Las Posas and Mission Roads
Las Posas Road/Mission Road
San Marcos, CA 92069

Inquiry Number: 3095719.5
June 20, 2011

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

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

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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

Date EDR Searched Historical Sources:

Aerial Photography June 20, 2011

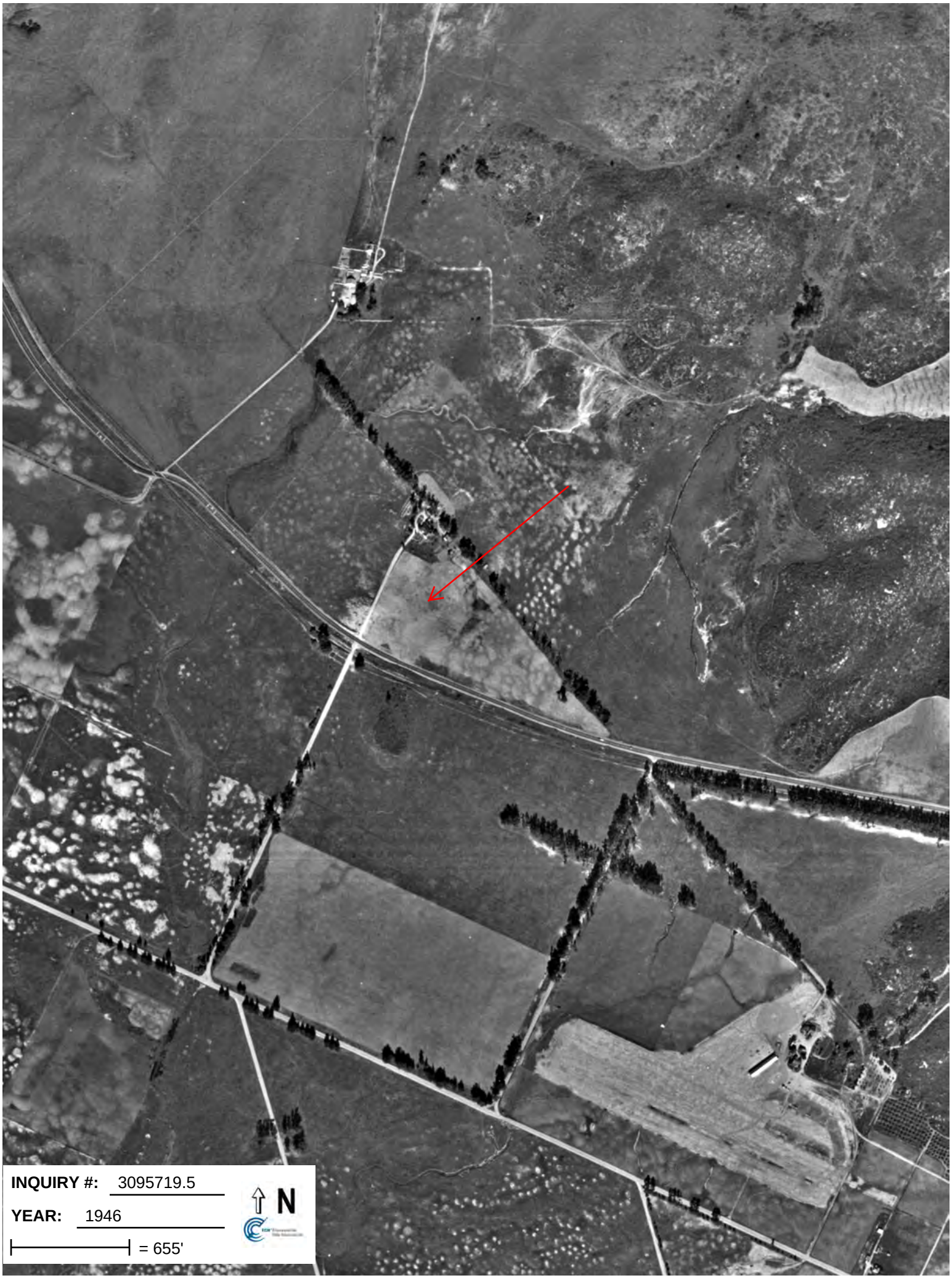
Target Property:

Las Posas Road/Mission Road

San Marcos, CA 92069

Year	***Scale***	***Details***	***Source***
1939	Aerial Photograph. Scale: 1"=555'	Flight Year: 1939	Fairchild
1946	Aerial Photograph. Scale: 1"=655'	Flight Year: 1946	Jack Ammann
1953	Aerial Photograph. Scale: 1"=555'	Flight Year: 1953	Park
1963	Aerial Photograph. Scale: 1"=555'	Flight Year: 1963	Cartwright
1974	Aerial Photograph. Scale: 1"=600'	Flight Year: 1974	AMI
1989	Aerial Photograph. Scale: 1"=666'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=666'	Flight Year: 1994	USGS
2002	Aerial Photograph. Scale: 1"=666'	Flight Year: 2002	USGS
2005	Aerial Photograph. Scale: 1"=604'	Flight Year: 2005	EDR


INQUIRY #: 3095719.5
YEAR: 1939
= 555'
N


INQUIRY #: 3095719.5
YEAR: 1946
= 655'
N


INQUIRY #: 3095719.5
YEAR: 1953
= 555'
N


INQUIRY #: 3095719.5
YEAR: 1963
= 555'
N


INQUIRY #: 3095719.5
YEAR: 1974
= 600'
N


INQUIRY #: 3095719.5
YEAR: 1989
= 666'
N


INQUIRY #: 3095719.5
YEAR: 1994
= 666'
N


INQUIRY #: 3095719.5
YEAR: 2002
= 666'
N


INQUIRY #: 3095719.5
YEAR: 2005
= 604'
N

APPENDIX E

REGULATORY DOCUMENTATION

REQUESTS AND NO RECORDS LETTERS

OFFICE USE ONLY

Request # _____

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

JACK MILLER
DIRECTOR

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123

(You may attach a business card/overprint with business card if preferred)

Additional information on public records may be accessed from the DEH website, www.sdcdeh.org. Fax your completed form to the Public Records Program at (858) 505-6848 or attach completed form and e-mail to deh.publicrecords@sdcounty.ca.gov. The following information is required so that our files may be accurately searched. Separate forms are needed for each address or parcel number.

199 North Las Posas Road, San Marcos, 92069 **or** _____

Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.): H125926

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☐ Contaminated Property Investigation(s) (SAM Cases)
☐ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☐ SAM Closure Letter/Report
☐ Other:_____ (specify)

DEH complies fully with the California Public Records Act and the Federal Freedom of Information Act. Every properly completed request will be processed in the order it is received. Some files are on line as indicated below. Photocopies of file items may be requested. **A fee of $.20 per page is charged to cover cost of copies.**

OFFICE USE ONLY BELOW THIS LINE

Files reviewed by: _____ of _____ Date: / /

Files copied for: _____ of _____ Date: / /

Request cancelled by: _____ Date: / /

Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

A search for DEH records checked above has been conducted and the following apply:

☐ SAM files for the permit number(s) below are available. After the files you have requested are retrieved from storage, an appointment will be scheduled so that you may review SAM records in the DEH main office.

_____ # _____ # _____ # _____ # _____

☐ HMD/UST files for the permit number(s) below are available for review at: http://sdcounty.ca.gov/deh/doing_business/hmd_search.html

_____ # _____ # _____ # _____ # _____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):

_____ # _____ # _____ # _____ # _____

☐ No SAM/HMD/UST records were found for the address/APN you requested.

_____ / /

Signature - DEH Representative Date

OFFICE USE ONLY

Request # _____

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

JACK MILLER
DIRECTOR

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
(You may attach a business card/overprint with business card if preferred)

Additional information on public records may be accessed from the DEH website, www.sdcdeh.org. Fax your completed form to the Public Records Program at (858) 505-6848 or attach completed form and e-mail to deh.publicrecords@sdcounty.ca.gov. The following information is required so that our files may be accurately searched. Separate forms are needed for each address or parcel number.

1329 West Mission Road, San Marcos, 92069 Exact Address (Street, City and Zip Code) **or** _____ Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☐ Contaminated Property Investigation(s) (SAM Cases)
☐ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☐ SAM Closure Letter/Report
☐ Other:_____ (specify)

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Files copied for: _____ of _____ Date: / /

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☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):

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1322 West Mission Road, San Marcos, 92069 Exact Address (Street, City and Zip Code) **or** _____ Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

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1320 West Mission Road, San Marcos, 92069 **or** _____
Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

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Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

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1290 West Mission Road, San Marcos, 92069 **or** _____
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North Las Posas Road and Armorlite Drive, San Marcos, 92069 **or** _____
Exact Address (Street, City and Zip Code) — Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.): H136816

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☐ Contaminated Property Investigation(s) (SAM Cases)
☐ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☐ SAM Closure Letter/Report
☐ Other:_____ (specify)

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Files copied for: _____ of _____ Date: / /

Request cancelled by: _____ Date: / /

Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

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_____ # _____ # _____ # _____ # _____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):

_____ # _____ # _____ # _____ # _____

☐ No SAM/HMD/UST records were found for the address/APN you requested.

_____ / /
Signature - DEH Representative — Date

OFFICE USE ONLY

Request # _____

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
(You may attach a business card/overprint with business card if preferred)

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_____ **or 219-161-19-00**
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_____ / /
Signature - DEH Representative Date

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

California Regional Water Quality Control Board
San Diego Region

PUBLIC RECORDS ACCESS REQUEST FORM

1. Requestor Information

Requester Name: LISA BESTARD			
Organization: NINYO & MOORE			
Address: 5710 RUFFIN ROAD			
City: SAN DIEGO	**State:** CA	**Zipcode:** 92123	**E-Mail Address** lbestard@ninyoandmoore.com
Daytime Phone: (858) 576- 1000 ext. 1279	**Cell Phone:**		**Fax** (858) 576- 9600

2. Request For Appointment to Inspect Regional Board Records

Date of Request *(The date you submitted this form to the Regional Board)* **June 22, 2011**	**Day and Appointment Time for Record Review (optional -** *You may specify the day of the week and appointment time that works best for you)*	**Any day** Preferred d*ay of the week*	**Any time** *Preferred Tine*

For Regional Board Office Use Only

Request Form Received by: **Phone** ☐ **Mail** ☐ **E-mail** ☐ **Fax** ☐ **Walk-In** ☐

Date Form Received _____ *RWQCB Staff Initials:* _____	**Date Requester Contacted:** _____ *RWQCB Staff Initials:* _____	**Date / Time of Appointment:** _____ *RWQCB Staff Initials:* _____
Date Copies Requested _____ *RWQCB Staff Initials:* _____	**Copy Fee :** _____ **Check #:** *RWQCB Staff Initials:* _____	**Date Copies Mailed:** _____ *RWQCB Staff Initials:* _____

3. Description of Public Records Requested

Record 1

Agency/ Owner Name (if known):		**Facility Name (if Known)**
Facility Address (if known): 1290 WEST MISSION ROAD		
City (if known): SAN MARCOS	**State:** CA	**Zipcode (if known):** 92069
Public Record Subject (if known): **I am not sure** Any documentation on file.		
Time Period (if known): *Please specify either "Most current volume of record" or what portion of record in terms of approximate start date (month/ year) and approximate end date (month /year) you are interested in.* Most current volume of record: ☐ or Start Date (mm/yyyy): _____ and End Date (mm/yyyy): _____		
Additional Information: *If a particular document is required, it should be identified precisely, preferably by date and title. If you cannot identify a specific record clearly explain your needs:* _____		

For Regional Board Office Use Only	**Records Located:** ☐	**File Records Not Located:** ☐	**Records Exempt From Public Review:** ☐

Rec'd 6/21/11

OFFICE USE ONLY
Request # 6-100

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
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_____ 6 / 28 / 11
Signature - DEH Representative Date

DEH-9098 (Rev. 02/11)

Rcvd 6/21/11

OFFICE USE ONLY
Request # 6-99

County of San Diego

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P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
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JACK MILLER
DIRECTOR

ELIZABETH POZZEBON
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DEH-9098 (Rev. 02/11)

Rcvd 6/21/11

OFFICE USE ONLY
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County of San Diego

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Rec'd 6/21/11

OFFICE USE ONLY
Request # 6-97

County of San Diego

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JACK MILLER
DIRECTOR

ELIZABETH POZZEBON
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☐ HMD/UST files for the permit number(s) below are available for review at: http://sdcounty.ca.gov/deh/doing_business/hmd_search.html

_____ # _____ # _____ # _____ # _____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):

_____ # _____ # _____ # _____ # _____

☒ No SAM/HMD/UST records were found for the address/APN you requested.

_____ 6 / 28 / 11
Signature - DEH Representative Date

DEH-9098 (Rev. 02/11)

Rcvd 6/21/11

OFFICE USE ONLY
Request # 6-95

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
(You may attach a business card/overprint with business card if preferred)

Additional information on public records may be accessed from the DEH website, www.sdcdeh.org. Fax your completed form to the Public Records Program at (858) 505-6848 or attach completed form and e-mail to deh.publicrecords@sdcounty.ca.gov. The following information is required so that our files may be accurately searched. Separate forms are needed for each address or parcel number.

225 North Las Posas Road, San Marcos, 92069 or _____
Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☐ Contaminated Property Investigation(s) (SAM Cases)
☐ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☐ SAM Closure Letter/Report
☐ Other: _____ (specify)

DEH complies fully with the California Public Records Act and the Federal Freedom of Information Act. Every properly completed request will be processed in the order it is received. Some files are on line as indicated below. Photocopies of file items may be requested. **A fee of $.20 per page is charged to cover cost of copies.**

OFFICE USE ONLY BELOW THIS LINE

Files reviewed by: _____ of _____ Date: / /
Files copied for: _____ of _____ Date: / /
Request cancelled by: _____ Date: / /
Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

A search for DEH records checked above has been conducted and the following apply:

☐ SAM files for the permit number(s) below are available. After the files you have requested are retrieved from storage, an appointment will be scheduled so that you may review SAM records in the DEH main office.
_____ # _____ # _____ # _____ # _____

☐ HMD/UST files for the permit number(s) below are available for review at: http://sdcounty.ca.gov/deh/doing_business/hmd_search.html
_____ # _____ # _____ # _____ # _____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):
_____ # _____ # _____ # _____ # _____

☒ No SAM/HMD/UST records were found for the address/APN you requested.

_____ 6 / 28 / 11
Signature - DEH Representative Date

DEH-9098 (Rev. 02/11)

Rec'd 6/28/11

OFFICE USE ONLY
Request # 6-93

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

JACK MILLER
DIRECTOR

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
(You may attach a business card/overprint with business card if preferred)

Additional information on public records may be accessed from the DEH website, www.sdcdeh.org. Fax your completed form to the Public Records Program at (858) 505-6848 or attach completed form and e-mail to deh.publicrecords@sdcounty.ca.gov. The following information is required so that our files may be accurately searched. Separate forms are needed for each address or parcel number.

355 North Las Posas Road, San Marcos, 92069 or _____
Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☐ Contaminated Property Investigation(s) (SAM Cases)
☐ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☐ SAM Closure Letter/Report
☐ Other: _____ (specify)

DEH complies fully with the California Public Records Act and the Federal Freedom of Information Act. Every properly completed request will be processed in the order it is received. Some files are on line as indicated below. Photocopies of file items may be requested. **A fee of $.20 per page is charged to cover cost of copies.**

OFFICE USE ONLY BELOW THIS LINE

Files reviewed by: _____ of _____ Date: / /
Files copied for: _____ of _____ Date: / /
Request cancelled by: _____ Date: / /
Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

A search for DEH records checked above has been conducted and the following apply:

☐ SAM files for the permit number(s) below are available. After the files you have requested are retrieved from storage, an appointment will be scheduled so that you may review SAM records in the DEH main office.
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_____ # _____ # _____ # _____ # _____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):
_____ # _____ # _____ # _____ # _____

☒ No SAM/HMD/UST records were found for the address/APN you requested.

_____ 6/28/11
Signature - DEH Representative Date

Rec'd 6/21/11

OFFICE USE ONLY
Request # 6-94

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

JACK MILLER
DIRECTOR

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Lisa Bestard **E-Mail:** LBestard@NinyoandMoore.com

Phone: (858) 576-1000 x1279 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
(You may attach a business card/overprint with business card if preferred)

Additional information on public records may be accessed from the DEH website, www.sdcdeh.org. Fax your completed form to the Public Records Program at (858) 505-6848 or attach completed form and e-mail to deh.publicrecords@sdcounty.ca.gov. The following information is required so that our files may be accurately searched. Separate forms are needed for each address or parcel number.

349 North Las Posas Road, San Marcos, 92069 or _____
Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☐ Contaminated Property Investigation(s) (SAM Cases)
☐ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☐ SAM Closure Letter/Report
☐ Other: _____ (specify)

DEH complies fully with the California Public Records Act and the Federal Freedom of Information Act. Every properly completed request will be processed in the order it is received. Some files are on line as indicated below. Photocopies of file items may be requested. **A fee of $.20 per page is charged to cover cost of copies.**

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Files reviewed by: _____ of _____ Date: / /

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Request cancelled by: _____ Date: / /

Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

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☐ SAM files for the permit number(s) below are available. After the files you have requested are retrieved from storage, an appointment will be scheduled so that you may review SAM records in the DEH main office.

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_____ # _____ # _____ # _____ # _____

☒ No SAM/HMD/UST records were found for the address/APN you requested.

Signature - DEH Representative

6 / 28 / 11
Date

Lisa Bestard

From: records [RB9_Records@waterboards.ca.gov]
Sent: Tuesday, July 05, 2011 12:30 PM
To: Lisa Bestard
Subject: Re: FW: Public Records Request

No records were found for the referenced address.

Best Regards,

Troy Souther

>>> Lisa Bestard <lbestard@ninyoandmoore.com> 6/28/2011 9:41 AM >>>

-----Original Message-----
From: Lisa Bestard
Sent: Wednesday, June 22, 2011 2:19 PM
To: 'records@waterboards.ca.gov'
Subject: FW: Public Records Request

-----Original Message-----
From: Lisa Bestard
Sent: Wednesday, June 22, 2011 2:10 PM
To: 'RWQCB Records Request 2 (RB9_Records@waterboards.ca.gov)'
Subject: Public Records Request

To Whom it May Concern:

Please find the attached public records request for 1290 West Mission Road, San Marcos, CA 92069

Thank you,

Lisa Bestard
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 (x1279)
(858) 576-9600 (Fax)
lbestard@ninyoandmoore.com
Experience . Quality . Commitment

"Celebrating 25 Years"

1290 WEST MISSION ROAD

H25233-001 San Marcos Gas Site Chronology

4-3-03	Lab results for soil samples received: TPH: 125 mg/kg, Toluene: 310 µg/kg, Ethylbenzene: 500 µg/kg. Total Xylenes: 2500 µg/kg, MTBE: 470 µg/kg
4-15-03	Notice of Responsibility sent
12-05-06	Past Due for Update Report sent by DEH
12-11-06	Past Due for Landowner Notification and Participation sent by DEH
12-29-06	Letter from RP received, stating that workplan for site assessment would be sent in early 2007
4-9-07	DEH phone call to consultant (Danny Oliver) re: WP status
5-22-07	Second Past Due letter sent by DEH, following up on 12-5-06 & 12-11-06 letters
9-17-07	Workplan received
10-10-07	E-mail to consultant requiring info for 5-22-07 letter prior to reviewing Workplan
3-25-08	Office Hearing notifications delivered certified – signed and received by both RPs 3-27-08
5-9-08	WP conditionally approved
5-21-10	Past due for Site assessment report. Required response by 6-20-10.

KIVA SHOWS
UST PERMIT
ON HOLD FOR
NSF CHK FOR FEES
IN OCT. 2010.

PIC ENVIRONMENTAL SERVICES

P. O. BOX 805 SOLANA BEACH, CA 92075
858/259-3140 FAX: 858/259-3157

September 13, 2007

Mr. Keith Kezer
County of San Diego
Department of Environmental Health
P.O. Box 129261
San Diego, CA 92112-9261

Dear Mr. Kezer:

RE: Work Plan for Preliminary Site Assessment
San Marcos Gas
1290 W. Mission Road
San Marcos, CA 92069
DEH Reference No.: H25233-001

1.0 INTRODUCTION

PIC Environmental Services (PIC) respectfully submits this work plan on behalf of San Marcos Gas to conduct preliminary site assessment operations at the above-referenced site located at 1290 W. Mission Road, San Marcos, CA 92069 (Figure 1). The purpose of the proposed work is to assess the limits of petroleum-impacted soil encountered in the vicinity of an upgraded dispenser at the subject property. All work will be performed in coordination with the San Diego County Department of Environmental Health (DEH) and in general accordance with the guidelines of DEH's Site Assessment and Mitigation (SAM) Manual.

2.0 SITE IDENTIFICATION AND INFORMATION

2.1 Site Identification and Ownership

Specific property, owner/operator, and project information are summarized as follows:

SITE ADDRESS:	1290 W. Mission Road San Marcos, CA 92069
RESPONSIBLE PARTY:	San Marcos Gas 1290 W. Mission Road San Marcos, CA 92069 Attn: Mr. Brad Napier

PROPERTY OWNER: Las Posas Partners
5505 Cancha de Golf
Rancho Santa Fe, CA 920291

ASSESSOR'S PARCEL NO.: 219-161-20

DEH REFERENCE NO.: H25233-001

2.2 Site Location and Use

The subject site is located on the northeast corner of the intersection of W. Mission Road and Las Posas Road in San Marcos, California. The site is an operating fuel station and includes four (4) 10,000-gallon fuel underground storage tanks (USTs), six (6) dispensers, and associated piping (Figure 2).

3.0 RELEASE DESCRIPTION AND SUMMARY OF PREVIOUS WORK

An unauthorized release of petroleum hydrocarbons was discovered when pipeline and dispenser upgrade work was completed in 2003. Soil samples were recovered in accordance with permit requirements under the supervision of Mr. David Jones, DEH, on March 17, 2003. Concentrations of total petroleum hydrocarbons (TPH) in the gasoline (TPHg) and diesel (TPHd) hydrocarbon ranges in most of the 12 soil samples were non-detectable or relatively low, with the exception of soil sample D1, recovered at approximately 5.5 feet below ground surface (bgs) beneath the northeasternmost dispenser, which contained 125 mg/kg TPHg. Approximate soil sample locations and TPH results are illustrated in Figure 3. Concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and oxygenates in two (2) soil samples, D1 (125 mg/kg TPHg) and D5 (10 mg/kg TPHd), are summarized as follows:

Sample ID	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	MTBE (ug/kg)
D1	125	<10	ND	310	500	3,500	470
D5	<10	10	ND	ND	ND	ND	14

4.0 GEOLOGY AND HYDROLOGY

The surface geology at the subject property is depicted on published geologic maps as Mid-Cretaceous Green Valley Tonalite (CDMG, *Geologic Maps of the Northwestern Part of San Diego California, Plate 1*, 1996).

The site lies within the Richland Hydrologic Subarea (904.52) of the San Marcos Hydrologic Area within the Carlsbad Hydrologic Unit. Beneficial uses of groundwater include municipal, agricultural, and industrial service supply (California Regional Water Quality Control Board, *Water Quality Control Plan for the San Diego Basin (9)*, 1994). No site-specific information was available regarding the depth to groundwater. Groundwater probably flows southwesterly, toward San Marcos Creek, based on local and regional topography.

5.0 DESCRIPTION OF PROPOSED WORK

5.1 Underground Service Alert

The proposed boring locations will be marked on the ground surface with white paint at least 48 hours prior to drilling operations. Underground Service Alert will then be notified and requested to verify the absence of subsurface utilities in the immediate vicinity of the proposed sampling locations.

5.2 Drilling/Sampling Operations

Three (3) borings will be drilled in the locations indicated on Figure 3 using hollow stem auger equipment. The borings will be advanced to approximately 19 feet bgs. Soil samples will be recovered at 5, 10, 15, and 19 feet below ground surface (bgs). Samples will be recovered in glass jars, labeled, placed in an ice-chilled cooler, and selected samples will be relinquished within 24 hours to a California-certified laboratory using standard chain-of-custody procedures. The lithology of subsurface soils will be described in the field according to the Unified Soil Classification System on drilling log forms.

All sampling equipment will be washed in a solution of detergent and water and rinsed with tap water between sample intervals to prevent cross-contamination. De-contamination water and soil cuttings will be placed into 55-gallon drums that will be sealed, labeled, and exported off-site within 90 days.

5.3 Laboratory Testing

Select soil samples will be analyzed for TPHg and TPHd by DHS Modified EPA Method 8015. If TPH is detected, the soil sample containing the highest TPH concentration will be analyzed for BTEX and oxygenates by EPA Method 8260B.

5.4 Report

A comprehensive report documenting procedures and findings of these proposed operations will be compiled in accordance with DEH's SAM Manual guidelines. The report will be submitted to DEH when completed and authorized by the responsible party.

5.5 Electronic Submittals

An electronic copy of the summary report will be submitted to the SWRCB in accordance with the GeoTracker requirements.

6.0 CONCLUSION

This work plan is intended for exclusive use of the above named client and governmental regulatory agency. PIC assumes no responsibility nor liability for the reliance herein, or use hereof, by anyone other than these specified parties. Please submit a written response to this work plan to Mr. Brad Napier (San Marcos Gas) at the above-referenced address and a copy to Danny Oliver, PIC Environmental Services. Thank you for your assistance.

If you have any questions or comments regarding the procedures outlined in this work plan, please contact Danny Oliver at (858) 259-3140.

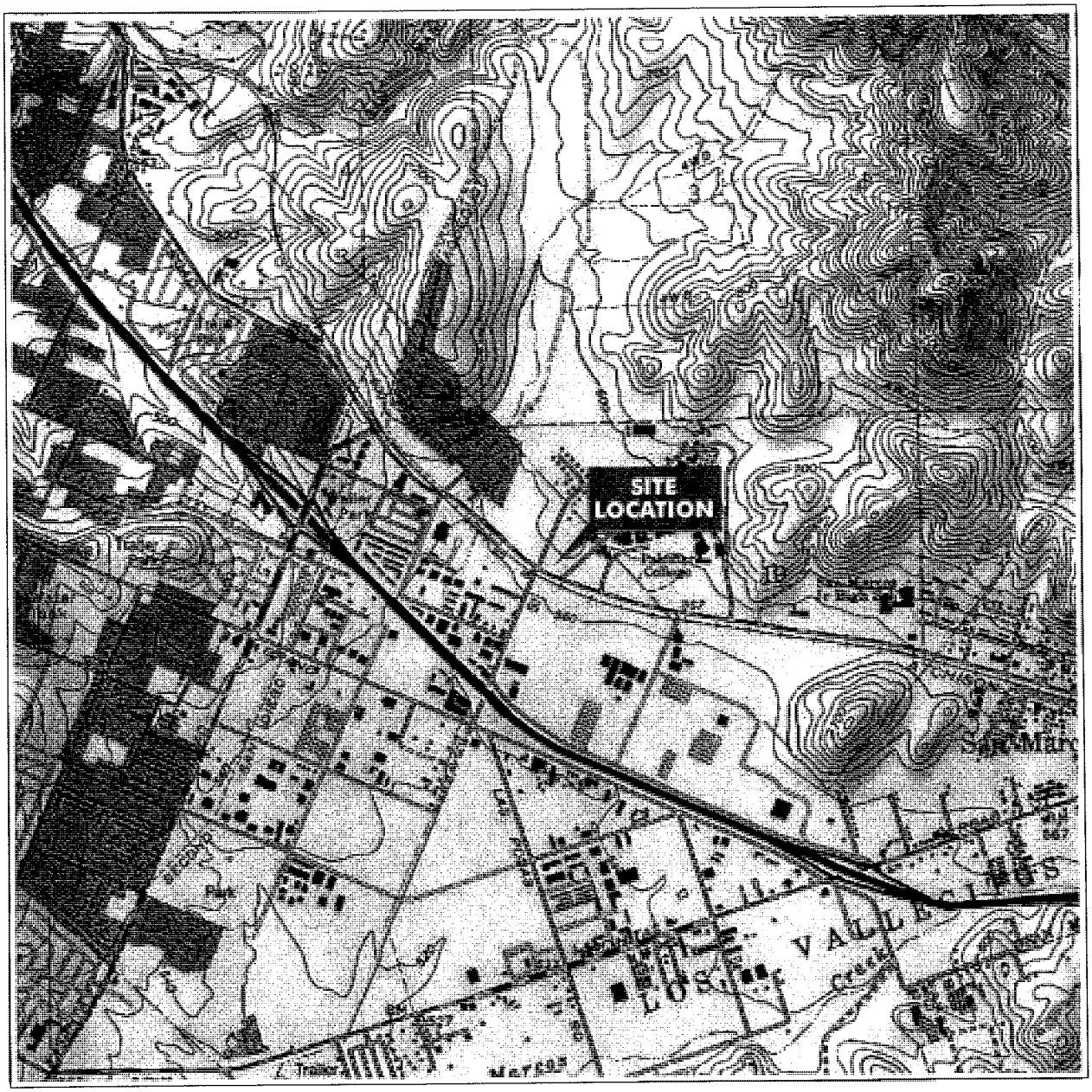
Respectfully submitted,
PIC Environmental Services

Danny Oliver
California Professional Geologist No. 4781
President

cc: Mr. Brad Napier, San Marcos Gas

ES8166.San.Marcos.Gas.Work.Plan.01

FIGURES



Source: USGS 7.5' series (topographic)

0 1000 2000 3000
Approximate Graphic Scale
1 Inch = 2000 feet

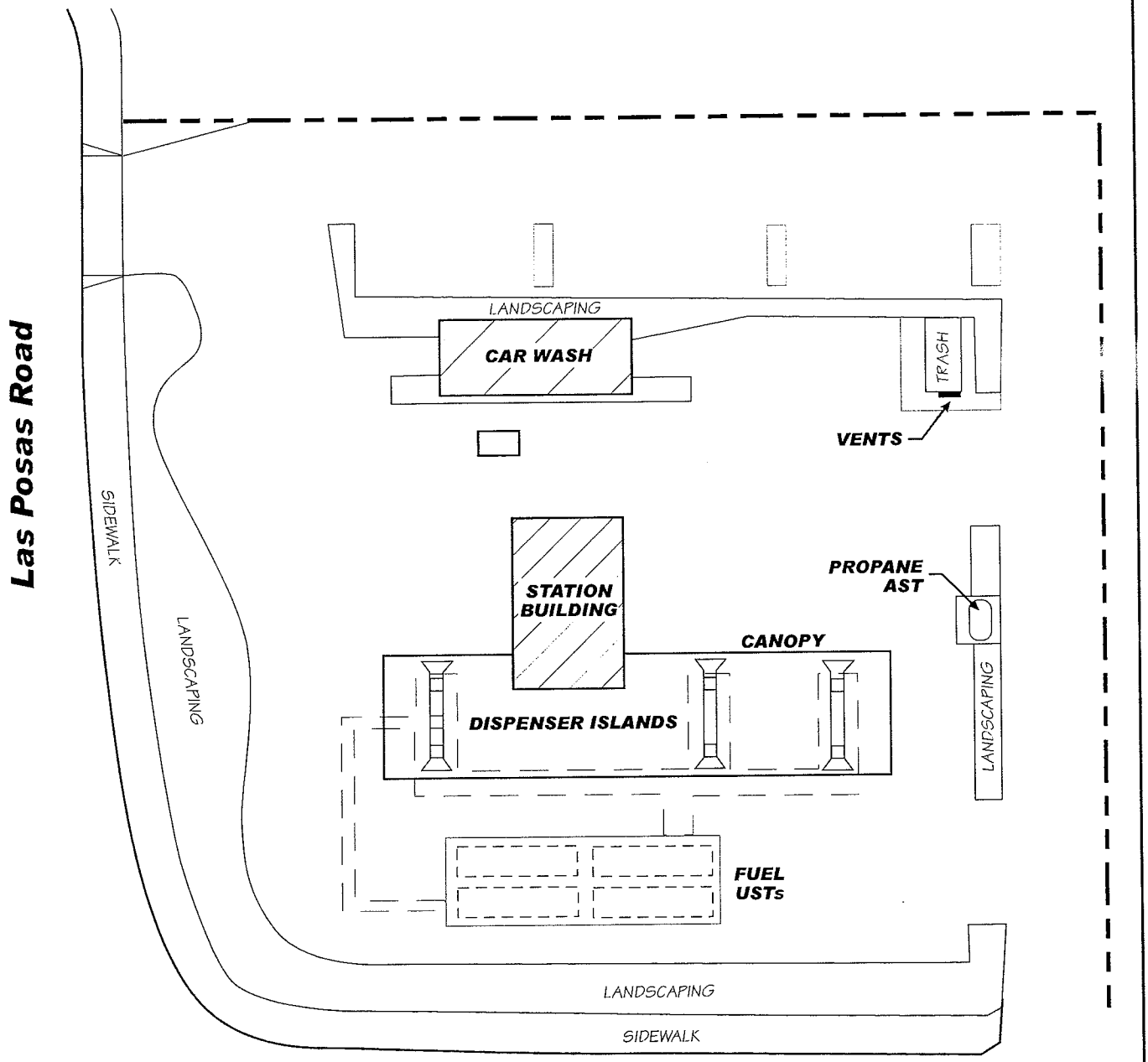
North

PIC Environmental SERVICES

SAN MARCOS GAS
1290 W. Mission Road
San Marcos, California

SITE LOCATION MAP

Project No.:	Date:	
ES8166	**September 2007**	**Figure 1**



0 20 40 60

Approximate Graphic Scale
1 Inch = 40 feet

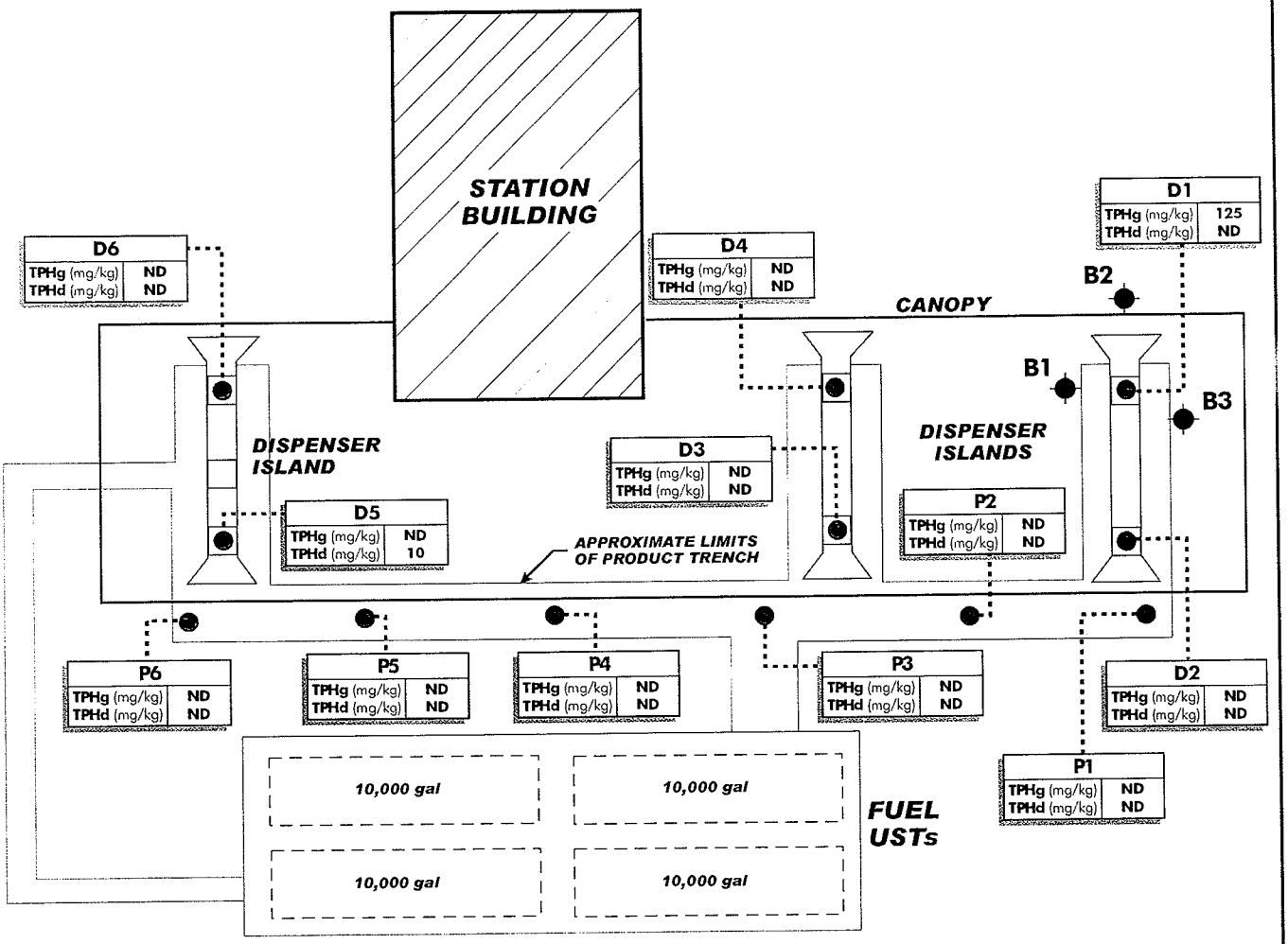
North

PIC Environmental SERVICES

SAN MARCOS GAS
1290 W. Mission Road
San Marcos, California

SITE PLAN

Project No.:	Date:	
ES8166	September 2007	Figure 2



EXPLANATION

- SOIL SAMPLE LOCATION (3/17/03)
- PROPOSED SOIL BORING LOCATION

PIC Environmental SERVICES

SAN MARCOS GAS
1290 W. Mission Road
San Marcos, California

ENLARGED VIEW OF UST/DISPENSER AREA SHOWING PROPOSED SOIL BORING LOCATIONS

Project No.:	Date:	
ES8166	September 2007	Figure 3

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/ CONTAMINATION SITE REPORT

EMERGENCY ☐ Yes ☑ No

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ Yes ☑ No

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PERSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.
SIGNED ____ DATE ____

REPORT DATE: 5/2003

CASE #: H25233-001

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: BRAD NAPIER
PHONE: (760) 967-1512
SIGNATURE: [signature]

REPRESENTING: ☐ LOCAL AGENCY ☐ REGIONAL BOARD ☑ OWNER/OPERATOR ☐ OTHER...
COMPANY OR AGENCY NAME: HARMS & NAPIER INC

ADDRESS: 1290 W. MISSION RD. SAN MARCOS CA 92069

RESPONSIBLE PARTY

NAME: HARMS & NAPIER INC ☐ Unknown
PHONE: (760) 967-1512

ADDRESS: 1290 W. MISSION RD SAN MARCOS CA 92069

SITE LOCATION

FACILITY NAME (IF APPLICABLE): SAN MARCOS CHEVRON
OPERATOR: HARMS & NAPIER INC
PHONE: (760) 967-1512

ADDRESS: 1290 W. MISSION RD SAN MARCOS SAN DIEGO 92069

CROSS STREET: LAS POSAS RD.

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: County OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH (SAM)
PHONE: (619) 338-2908

REGIONAL BOARD
PHONE

SUBSTANCES INVOLVED

(1) NAME: GAS W/ MTBE — QUANTITY LOST (GALLONS): ☑ Unknown

(2) NAME: ☐ Unknown

DISCOVERY/ABATEMENT

DATE DISCOVERED: 6/2003

HOW DISCOVERED: ☐ Tank Test ☐ Tank Removal ☐ Nuisance Conditions ☐ Inventory Control ☐ Subsurface Monitoring ☑ Other... SB989 LINE REPLACEMENT

DATE DISCHARGE BEGAN: ☑ Unknown

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ Remove Contents ☐ Close Tank ☐ Repair Tank ☐ Change Procedure ☐ Replace Tank ☑ Other... ☐ Repair Piping REPLACED LINES

HAS DISCHARGE BEEN STOPPED? ☑ Yes ☐ No IF YES, DATE 5/2003

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☐ Tank Leak ☑ Piping Leak ☐ Unknown ☐ Other...

CAUSE(S): ☐ Overfill ☐ Corrosion ☐ Rupture/Failure ☐ Unknown ☐ Spill ☐ Other...

CASE TYPE

CHECK ONE ONLY
☐ Undetermined ☑ Soil Only ☐ Groundwater ☐ Drinking Water - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☐ No Action Taken
☐ Leak Being Confirmed
☐ Remediation Plan
☑ Preliminary Site Assessment Workplan Submitted
☐ Preliminary Site Assessment Underway
☐ Case Closed (Cleanup Completed or Unnecessary)
☐ Pollution Characterization
☐ Post Cleanup Monitoring in Progress
☐ Cleanup Underway

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S)
☐ Cap Site (CD)
☐ Contamination Barrier (CB)
☐ Vacuum Extract (VE)
☐ Excavate & Dispose (ED)
☐ Excavate & Treat (ET)
☐ No Action Required (NA)
☐ Remove Free Product (FP)
☐ Pump & Treat Groundwater (GT)
☐ Treatment at Hookup (HU)
☐ Enhanced Bio Degradation (IT)
☐ Replace Supply (RS)
☐ Vent Soil (VS)
☑ Other...

COMMENTS

LAND AND WATER QUALITY DIVISION
UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

ESTABLISHMENT NO. 201278 RT2169 PLAN CHECK NO. _____

SITE NAME SAN MARCOS GAS PHONE _____

SITE ADDRESS 1290 W. MISSION ROAD CITY SAN MARCOS, CA ZIP 92069

CONTRACTOR TOM (BONSALL) PERRAULT PHONE 619/520-1659

Number of tanks to be removed 1 2 3 4 5 6 7 8 N/A

Decontamination by N/A

Manifest No. N/A

Tank rinsate/(amount & destination) N/A

FIRE AGENCY PRESENT YES NO

Dept. _____

Permit No. N/A

Inspector _____

					REMARKS
Tank ID No.					
Capacity					
Tank Construction					
Materials stored					
% L.E.L.	PIPE REMOVAL ONLY				
Dry ice/other (amt.)					
Tank condition					
Backfill soil type	Pea-gravel				
Backfill condition	damp-wet, no obvious staining				
Native soil type	brn-gry silty fine-med sand				
Native condition	damp, no obvious staining				
Excavation odors?	YES				
Stockpile odors?	YES				
Water present?	NO - wet due to recent rains				
Ponded product?	NO				
Piping removed?	YES				

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 03/17/03, an Environmental Health Specialist conducted an inspection for the closure of piping only ~~hazardous substance underground storage tank(s)~~. A summary of the conditions follows:

☐ An **unauthorized release** of a hazardous substance has been observed by the Environmental Health Specialist. You are hereby required to initiate **Corrective Action** measures (See Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Program's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Dave Jones at the address provided below.

The SAM Program has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ **TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED**

☒ **INITIATE CORRECTIVE ACTION MEASURES (See enclosed information)**

Reviewed by: MIKE HERRERA **Date Reviewed:** 4/3/03 **Supervisor (initial):** MOV/TS

RECEIVED BY [signature]

PRINTED NAME TOM PERRAULT

PHONE NUMBER 760-631-0342

Dave Jones 619/338-2497 (office)
Environmental Health Specialist
SAM - P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222
619/338-2315 (FAX)

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

Type(s) of hazardous substance(s) released (mark all that apply):

☐ Gasoline ☐ Diesel ☐ Waste Oil ☐ Other Unknown

Is hazardous material ponded? ☐ Yes* ☒ No Estimated amount? _____

Estimated depth to groundwater below this site: Unknown feet Beneficial use? ☐ Yes ☐ No

SOIL CONDITIONS (Odors, Staining, Volume):

Describe backfill and its condition: pea-gravel, damp from recent rains, no obvious odors or fuel-related staining.

Describe native soil and its condition: 1) Samples D1-D4, P1-P3 collected from brown-grey silty/clayey fine sand, sandy clay. Samples D5-D6, P4-P6 collected from medium-coarse silty sand. None to moderate odor; no obvious fuel-related staining.

How was hazardous substance released? Unknown

Tank condition (holes, corrosion, wrapping, seams, evidence or overfill) Tanks left in place - only piping removed.

Estimated length of piping removed? @ 250 ± feet Date tanks last used? current

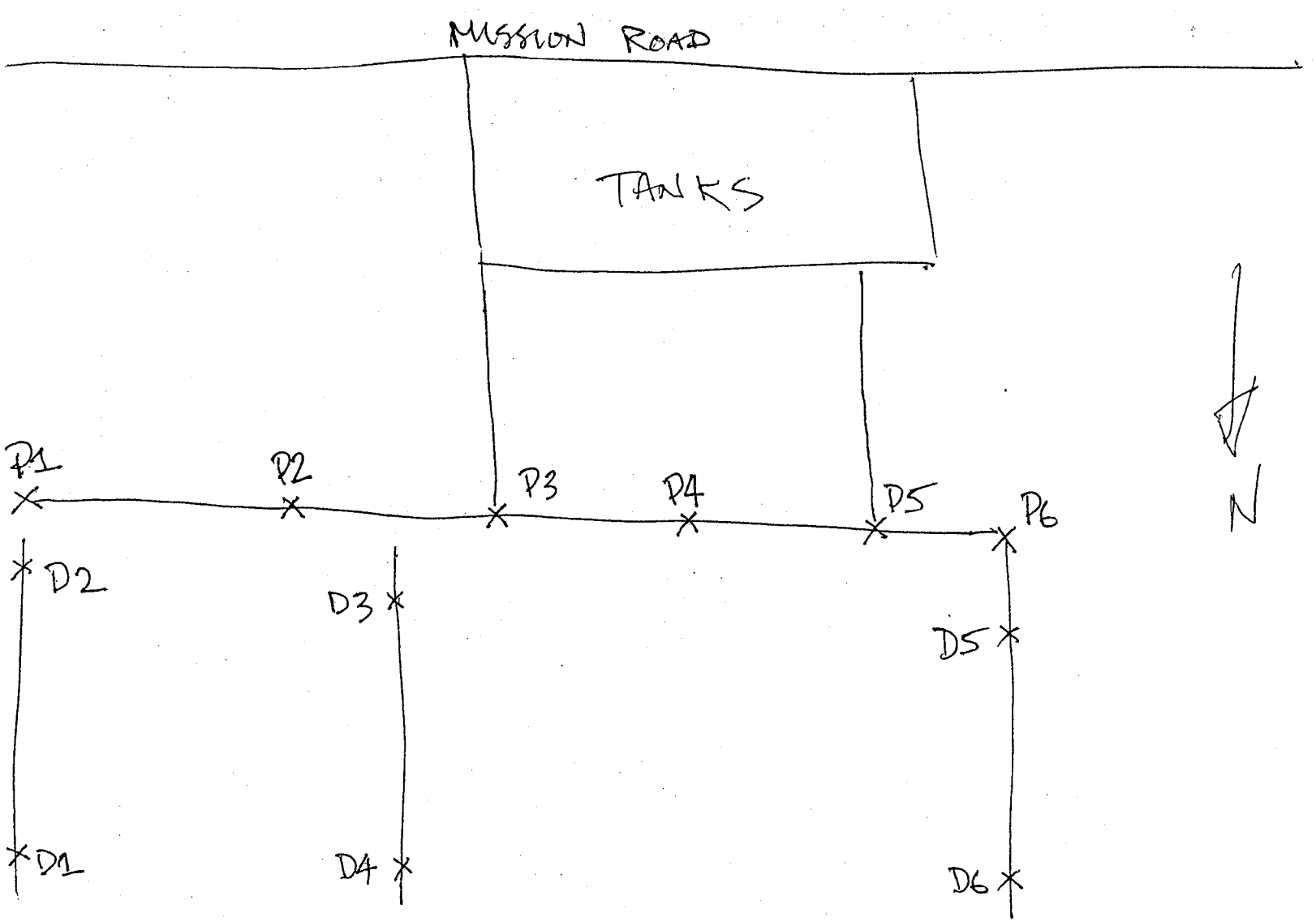
Nearby water wells or surface waters? ☐ Yes* ☒ None noted

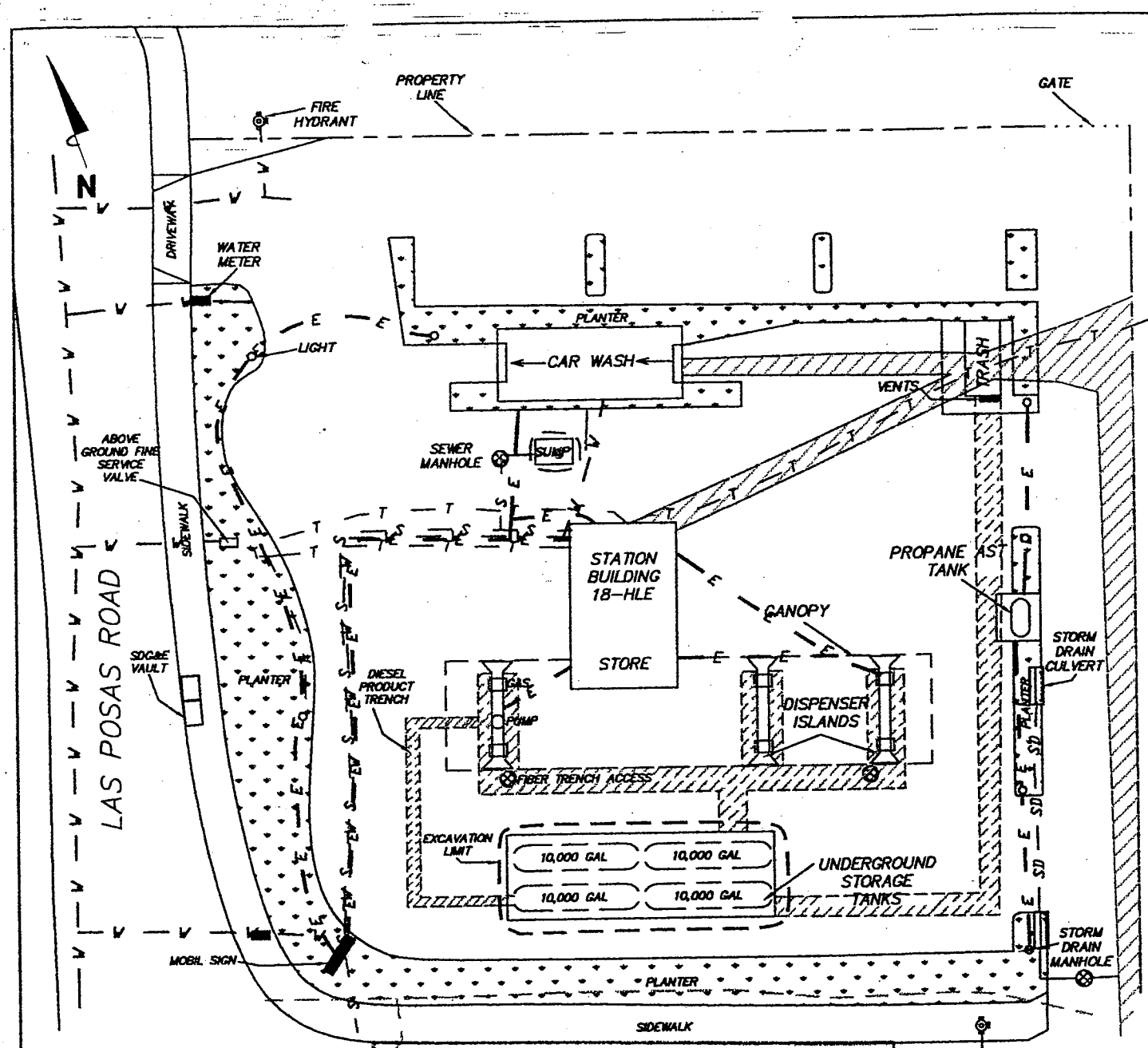
*Describe _____

Any known sensitive receptors, i.e., underground vaults, utilities or basements nearby? ☐ Yes* ☒ None noted

*Describe _____

COMMENTS: _____


MISSION ROAD
TANKS
N
P1
P2
P3
P4
P5
P6
D1
D2
D3
D4
D5
D6



LEGEND

- Product Trenching
- Electrical Trench
- E — Electric Line
- Cable TV Line
- W — Water Line
- S — Sewer Line
- T — Telephone Line
- SD — Storm Drain

County of San Diego
Department of Environmental Health -
Site Assessment & Mitigation Division
PLAN APPROVAL

P/C# AT4781 H# 25233
Approved By: [signature] Date: 5/24/02
Comments: REMOVE FOUR (4) USTs + ALL ASSOCIATED PIPING

Any change in these plans may void this approval. This stamp does not constitute or imply approval by other agencies.

SITE PLAN SHOWING UTILITY LOCATIONS

Mobil Station 18-HLE
1290 Mission Road
San Marcos, California

TRC

SCALE (FEET)
0 40

PS=1:40

FIGURE 2

projects\mobil\18-hle\graphics\18HLE_SP.dwg 4/29/02 rmh

HP LABS

PIC Environmental	Project: PC031903-31	
742 Genevieve Street, Suite G	Project Number: San Marcos Gas	Reported:
Solana Beach CA, 92075	Project Manager: Mr. Scott Green	24-Mar-03

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
D1 (E303038-01) Soil Sampled: 17-Mar-03 Received: 17-Mar-03									
Methyl tert-butyl ether	470	100	ug/kg	10	EC32002	20-Mar-03	20-Mar-03	EPA 8260B	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	100	"	"	"	"	"	"	
Benzene	ND	100	"	"	"	"	"	"	
Toluene	310	100	"	"	"	"	"	"	
Ethylbenzene	500	100	"	"	"	"	"	"	
m,p-Xylene	2300	100	"	"	"	"	"	"	
o-Xylene	1200	100	"	"	"	"	"	"	
Tert-butyl alcohol	ND	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.2 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*89.6 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.4 %*	*65-135*		"	"	"	"	
D5 (E303038-02) Soil Sampled: 17-Mar-03 Received: 17-Mar-03									
Methyl tert-butyl ether	14	5	ug/kg	0.5	EC32002	20-Mar-03	20-Mar-03	EPA 8260B	
Di-isopropyl ether	ND	5	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5	"	"	"	"	"	"	
Benzene	ND	5	"	"	"	"	"	"	
Toluene	ND	5	"	"	"	"	"	"	
Ethylbenzene	ND	5	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.0 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*92.0 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*65-135*		"	"	"	"	

H25233

PIC PROJECT# 201278 RT2169
SAN MARCOS GAS
1290 WEST MISSION ROAD
SAN MARCOS, CA

HPL Project #PC031703-10

TPH (DHS LUFT/8015M Method) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)
METHOD BLANK	3/18/2003	ND	ND
D1	3/18/2003	125	ND
D2	3/18/2003	ND	ND
D3	3/18/2003	ND	ND
D4	3/18/2003	ND	ND
D5	3/18/2003	ND	10
D6	3/18/2003	ND	ND
P1	3/18/2003	ND	ND
P2	3/18/2003	ND	ND
P3	3/18/2003	ND	ND
P4	3/18/2003	ND	ND
P5	3/18/2003	ND	ND
P6	3/18/2003	ND	ND
DETECTION LIMITS		10	10

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: JODY GRINDEL
DATA REVIEWED BY: MS. TAMARA DAVIS

Minimum One (1) sample analyzed from highest TPH for BTXE, MTBE, plus related oxygenates

SAM Chain-of-Custody Record

Date 03/17/03 Page 2 of 2

Project Name San Marcos Gas
Reference 201278 RT2169
Address 1290 W. Mission Rd
San Marcos
Sampler's Signature [signature]
Lab To Be Used HP Solana Beach

PHE-ID	DEPTH	TIME	MTRL. CHARACTER	TPH Full METHOD	TRPH EPA 418.1	BTXE (8021/8260)	HALOGENATED (8021/8260)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF	COMMENTS
1	5.5'	1:30	gry-silty fine sand	X						X		X		1	none-faint odor
2	5.5'	1:42	brn-silty fine-med sand	X		X				X		X		1	none-faint odor
3	5.5'	1:50	silty med-coarse sand	X						X		X		1	faint-mod odor
4	5.5'	2:00	silty med-coarse sand	X						X		X		1	none-faint odor
5	4.0'	2:15	silty med-coarse sand	X		X				X		X		1	no odor
6	4.0'	2:25	silty med-coarse sand	X						X		X		1	no odor

ANALYSIS REQUESTED

SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and
Mitigation Division
P.O. Box 129261
San Diego, CA 92112-9261

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature [signature]	03/17/03	Signature		Signature	Time
Printed Name D. James	Time 3:00	Printed Name	Time	Printed Name	
Company EH-SAM		Company		Company	Date
RECEIVED BY C. Environmental Svcs	Date 3/17/03	RECEIVED BY	Date	RECEIVED BY (LAB)	Time
Signature [signature]	Time 3:00	Signature	Time	Signature	
Printed Name Scott Green		Printed Name		Printed Name	

6 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice Yes/No
Tape Seal Intact Yes/No

Special Shipment/Handling Or Storage Requirements:

Split Sample Location
Site Identification
H# 201278 AT# 2169 RT
SAM D James - 619/338-2497
619/338-2315 (FAX)

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (Rev. 12/98) NCR

County of San Diego
Department of Environmental Health

1140 WEST MISSION ROAD

EDP date 5/2/89 SJP

HAZARDOUS MATERIALS MANAGEMENT DIVISION
UNDERGROUND TANK REMOVAL/CLOSURE REPORT

FIRE AGENCY PRESENT? ☒ YES ☐ NO
PERMIT NO.
DEPT. SM FD
% L.E.L. 0%

ESTABLISHMENT # H03452 PLAN CHECK # NT1228

SITE NAME Palomar College PH 744-1150

ADDRESS 1140 W. Mission Rd San Marcos Ca ZIP CODE 92069

CONTRACTOR Angus PHONE 562-8201

NUMBER OF TANKS 2 ☒ REMOVAL ☐ CLOSURE IN PLACE

TANK EDP NUMBER	01	02				REMARKS:
U/L TAG NUMBER						(A) 88338013
CAPACITY (GALS)	1000	1000				Triad →
MATERIAL STORED	Gas	Diesel	Gas			Demenno/Kerdon
DECONTAMINATION?	Y	→				300 gal
MANIFEST AVAILABLE?	(A)					(B) Good condition
% LEL (CGI READING)	0%	0%				Tar wrapped
DRY ICE/OTHER (AMT)	35	25				(C) Good condition -
TANK CONDITION	(B)	(C)				Poor Plastel
BACKFILL SOIL TYPE	Sand	→				no holes
BACKFILL CONDITION	Good	→				
NATIVE SOIL TYPE	Sand	→				
NATIVE CONDITION	Good	→				
EXCAVATION ODORS?	NO	→				
STOCKPILE ODORS?	NO	→				
PONDED PRODUCT?	NO	→				
PIPELINE LEAK?	No	→				
REINSPECTION REQD.?	NO	→				

NOTICE: You are hereby notified that on 5/26/89, a Hazardous Materials Specialist conducted an inspection for the closure of 2 hazardous substance underground storage tanks. A summary of the conditions follows:

☒ A determination of this site's status is pending receipt of Laboratory Analyses Results for samples taken this date. To avoid delays, have the Laboratory send a copy of the results directly to Sue Pease (print) of the HMMD (see address below).

☐ Contamination of the excavation area has been noted by observations made during the tank removal this date.
-BEGIN SITE ASSESSMENT PHASE- (see reverse for preliminary details).

The Laboratory results have been reviewed by Sue Pease (of the HMMD) on 6/7/89 and indicate the following:
☐ NO FURTHER ACTION IS REQUIRED.
☑ **BEGIN SITE ASSESSMENT PHASE** (see attached information).
Phone Contact 6/7/89 Michael Ellis Date Form Was Mailed 6/8/89

Received by Michael D Ellis

Printed Name Michael D Ellis

Phone Number 744-1150 Ext 2655

Susan Pease
Hazardous Materials Specialist
County of San Diego
Department of Health Services
HMMD - P.O. Box 85261
San Diego, CA 92138-5261
(619)236-2222

(HMMD COPY)

DHS:HM-916(3/89)

Type(s) of hazardous substance(s) released: Pending lab results

Is hazardous material ponded? No What is estimated amount? _____

Is amount of hazardous substance release known? No Estimated amount _____

What is estimated depth to ground water below the site? Unk feet

Is site located in a beneficial use area? Yes

SOIL CONDITIONS:

Is backfill discolored? No Estimated amount _____

Is backfill saturated? No Estimated amount _____

Is native soil stained? NO Estimated amount _____

Is native soil discolored? NO Estimated amount _____

Describe native soil type(s) Sand

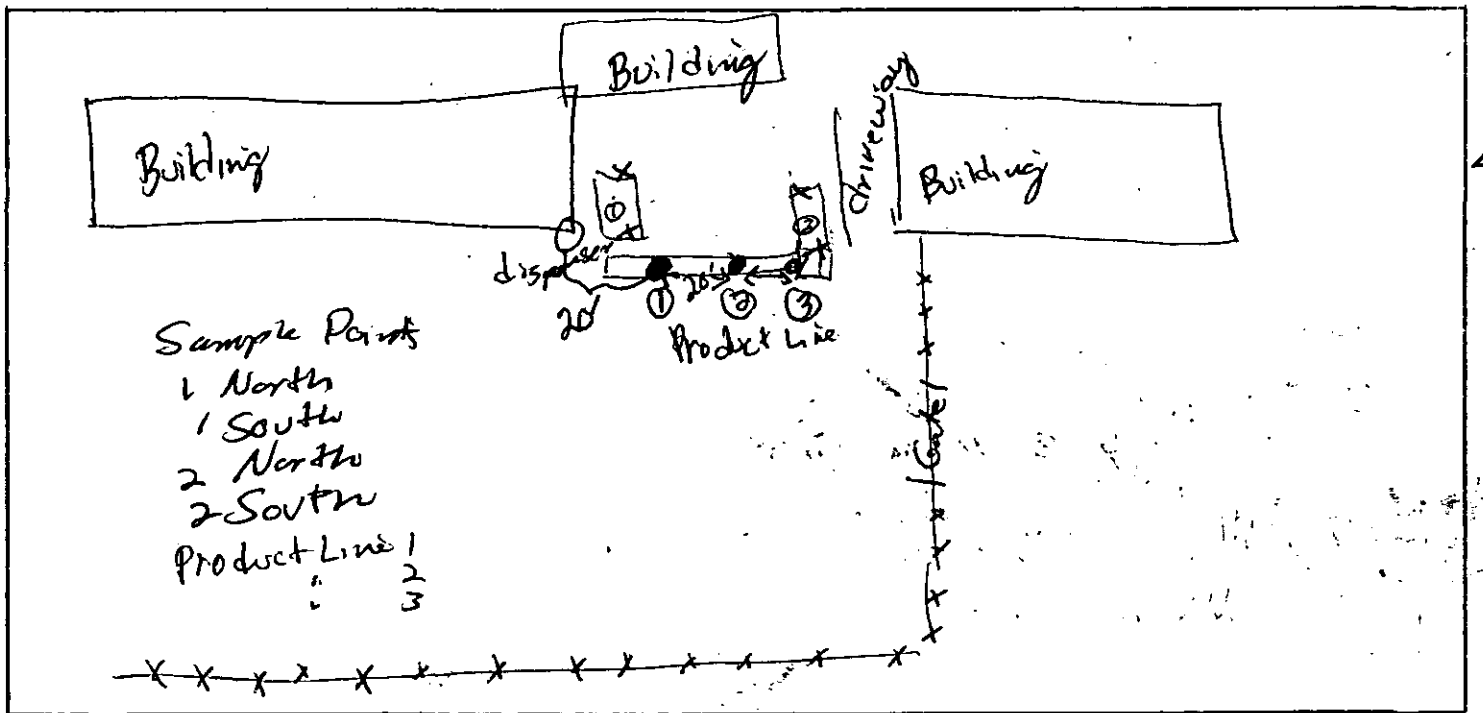
Condition of tank(s) (holes, corrosion, wrapping, seams) Both tanks good condition - no holes seen

Piping leak location None

Nearby water wells or surface waters? No

Any known underground vaults, utilities or basements nearby? _____

FURTHER COMMENTS: * Product line sample #1 had hydrocarbon odors, all others were OK.



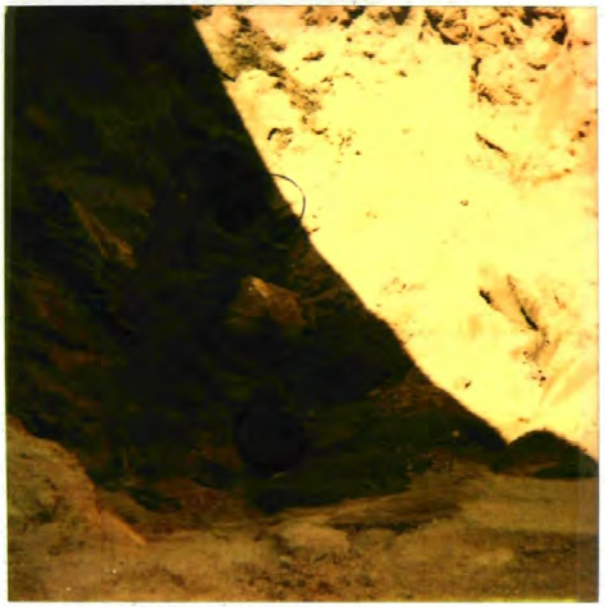
(HMMD) **PLOT PLAN** EST. # H

DHS:HM-916(3/89)

H03452
5/23/89

Palomar College
1140 W Mission Rd
San Marcos

Product Line
~~Sampling~~



H03452
5/26/89

Palomar College
1140 W Mission Rd
San Marcos

Tank 1
Sample
Points

H03452
5/26/89

Palomar College
1140 W. Mission RD
San Marcos

Tank 2
Sample
Points

County Of San Diego

Chain-of-custody Record

DATE 5/26/89 PAGE 1 OF 1

Project Name: Palomar College
Reference: 1140 W Mission Rd
Address: San Marcos Ca
Samplers Signature: Scott [illegible]
Lab To Be Used: QAL

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
1-North	5/26/89	13:50	North end 7'4"	X						X		X		1	Backfill
1 South	5/26/89	13:55	South end 7'4"	X						X		X		1	
2-North	5/26/89	14:20	9' BG	X						X		X		1	
2-South	5/26/89	14:25	9' BG	X						X		X		1	
Product Line	5/26/89	14:00	20' from tank 1	X						X		X		1	
Product Line 2	5/26/89	14:05	40' from tank												
Product Line 3	5/26/89	14:15	60' from tank	X						X		X		1	
				X						X		X		1	

Sample type: soil

TOTAL NO. OF CONTAINERS: 7

COPY OF LAB RESULTS MUST BE SENT TO:
County Of San Diego
Hazardous Materials Management Division
P.O. Box 85261
San Diego, Ca 92138-5261

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	Time	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature	Time	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	

Sample Conditions
Received On Ice Yes/No
Tape Seal Intact Yes/No

Special Shipment/Handling Or Storage Requirements:

Split Sample Location

Site Identification
H# [illegible] AT# [illegible]
HMMD [illegible]

DHS:HM-999 (12/88)

...ty Of San Diego

Chain-of-custody Record

DATE 5/26/89 PAGE 1 OF 1

Project Name: Palomar College
Reference: 1140 W Mission Rd
Address: San Marcos, Ca 92069
Samplers Signature: Scott [signature]
Lab To Be Used: QAL

COPY OF LAB RESULTS MUST BE SENT TO:
County Of San Diego
Hazardous Materials
Management Division
P.O. Box 85261
San Diego, Ca 92138-5261

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
1-North	5/26/89	13:50	North end - 7'	X						X		X		1	~~Native~~ Sandy Backfill
1 South	5/26/89	13:55	South end - 7'	X						X		X		1	
2-North	5/26/89	14:20	9' BG	X						X		X		1	
2-South	5/26/89	14:25	9' BG	X						X		X		1	
Product Line 1	5/26/89	14:00	20' from tank 1	X						X		X		1	
Product Line 2	5/26/89	14:05	40' from tank 2	X						X		X		1	
Product Line 3	5/26/89	14:15	60' from tank 4	X						X		X		1	
~~—~~				~~X~~						~~X~~		~~X~~		~~1~~	7-DAY FIRM

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature: Robert D Miller		Signature		Signature	
Printed Name: ROBERT D MILLER	Time	Printed Name	Time	Printed Name	Time
Company: ANGUS ASPHALT		Company		Company	

RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature		Signature		Signature: V. Pennice	5/26/89
Printed Name	Time	Printed Name	Time	Printed Name: V. Pennick	Time 422
Company		Company		Company: QA LAB	

7 TOTAL NO. OF CONTAINERS

Sample Conditions:
Received On Ice: Yes/No
Tape Seal Intact: Yes/No

Special Shipment/Handling Or Storage Requirements:
6307-6313-89

Split Sample Location

Site Identification
H# ~~03???~~ AT# ~~??~~
HMMD ~~????~~

DHS:HM-999 (12/88)

QUALITY ASSURANCE LABORATORY

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF QC REPORT	JUNE 5, 1989
DATE RECEIVED	MAY 26, 1989
DATE OF SAMPLE	MAY 26, 1989
DATE COMPLETED	JUNE 1, 1989
ANALYZED BY	MS MH
SAMPLE TYPE	7 SOIL

Quality Control Data

for

Log #6307-89 and #6313-89

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

JUN 6 4 22 PM '89

HMMU

DATE OF REPORT	JUNE 1, 1989
DATE RECEIVED	MAY 26, 1989
DATE OF SAMPLE	MAY 26, 1989
DATE COMPLETED	JUNE 1, 1989
ANALYZED BY	MS MH
SAMPLE TYPE	7 SOIL

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6307-89	1-NORTH	NORTH END - 9'4"	26
6308-89	1-SOUTH	SOUTH END - 7'4"	<0.5
6309-89	2-NORTH	9' BG	<0.5
6310-89	2-SOUTH	9' BG	<0.5
6311-89	PRODUCT LINE 1	20' FROM TANK 1	796
6312-89	PRODUCT LINE 2	40' FROM TANK 1	<0.5
6313-89	PRODUCT LINE 3	60' FROM TANK 1	<0.5

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

Peter Shen DW
PETER SHEN
LABORATORY DIRECTOR

Total Petroleum Hydrocarbons - DHS Method (Recommended procedure from Leaking Underground Fuel Tank Manual, May 1988)

Calibration Standard:
Relative Standard Deviation (4 point curve): 6.2 %

Continuing Calibration Curve Verification
Expected Concentration: 500 ppm
Recovered : 443 ppm
% Recovery: 88 %

Matrix Spike Recovery
Log #6169-89
Spike amount: 500 ppm
Recovered: 461 ppm
% Recovery: 91 %

Precision Data
Log #6166-89 was analyzed in duplicate.
Log #6166 concentration: 283 ppm
Log #6166 duplicate conc:369 ppm
Relative Percent Difference: 26 %

Sheri D. Stanley
Sheri D Stanley
QA\QC Officer

County of San Diego

J. WILLIAM COX, M.D., Ph.D.
DIRECTOR
(619) 236-2237

STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR
(619) 236-7633

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-2222

OFFICIAL NOTICE

July 3, 1989

Michael Ellis
Palomar College
1140 W. Mission Rd.
San Marcos, CA 92069

Dear Mr. Ellis:

RE: UNAUTHORIZED RELEASE #T1399/H03452
1140 W. MISSION RD., SAN MARCOS, CA

The initial Unauthorized Release Report submitted by Shawn Williams of U.S. Testing dated June 29, 1989, for the site referenced above conforms to the reporting requirements, as prescribed in the California Health and Safety Code, Chapter 6.7 and the California Code of Regulations, Title 23, Chapter 3, Subchapter 16, Article 5, Section 2652.

For the duration of the site mitigation process, you are required to provide periodic written supplemental reports to this Department to update the Unauthorized Release Report pursuant to the California Code of Regulations, Title 23, Chapter 3, Subchapter 16, Article 5, Section 2652.

Please submit a written supplemental report to update the Unauthorized Release Report every 30 days. The report should include a summary of the investigation and mitigation progress accomplished to date, along with the projected accomplishments for the next reporting period. The update report is due by August 14, 1989.

If during the site mitigation process any significant situation is encountered that was not known nor anticipated at the time of the initial Unauthorized Release Report, please provide a written statement describing the situation in order to amend the Unauthorized Release Report.

Michael Ellis
Unauthorized Release #T1399

July 3, 1989

As a reminder, a copy of each manifest for hauling any hazardous waste generated as a result of the site characterization and mitigation procedure must be included with the written supplemental reports.

If you have any questions on this matter please contact me at (619) 338-2222.

Sincerely,

Susan Pease

SUSAN PEASE, Hazardous Materials Specialist
Hazardous Materials Management Division

SP:jw

cc: Jim Munch-RWQCB
Shawn Williams, Testing Engineers

WPB/T1399

COUNTY OF SAN DIEGO

DEPARTMENT OF HEALTH SERVICES
1700 Pacific Highway, San Diego, CA 92101

DIVISION OF ENVIRONMENTAL HEALTH PROTECTION
HAZARDOUS MATERIALS MANAGEMENT UNIT
(619) 236-2222

DATE:

MEMORANDUM FOR: California Regional Water Quality Control Board, San Diego Region

FROM: Hazardous Materials Management Unit (HMMU)

SUBJECT: UNAUTHORIZED RELEASE OF HAZARDOUS MATERIAL FROM AN UNDERGROUND STORAGE TANK T# 1399/H03452

Evidence of an unauthorized release of a hazardous material has been noted by HMMU staff at the site described below:

Site Address: 1140 W. Mission Rd (Street) San Marcos Ca (City) 92069 (Zip Code)

Property Owner: Palomar College (Name)
1140 W. Mission Rd (Street) San Marcos (City) 92069 (Zip Code)
Telephone 744-1150

Tank Operator: Michael Ellis or Bryant Guy (Name) 744-1150 (Telephone)

The following information is provided for your consideration and action in accordance with the authority and responsibilities of the Regional Board.

Suspected Source(s) Gas from product line

Amount Released Unknown (Gallons) Unknown (Time Period)

Release Detected By:

___ Routine Tank Testing
___ Test of Piping
___ Inventory Audit
___ Monitoring Device/Well
___ Evidence of Soil Contamination Detected During Tank Removal
___ Evidence of Leaky Tank Detected During Tank Removal
✓ Other Laboratory results

Description of underground tank systems on property (number, type, age, capacity, material stored, evidence of leakage).

Date Release Reported to or Detected by HMMU 6-7-88
Contact With Other Agencies
Additional Comments:

Please call the HMMU at 236-2222 if you have questions or comments regarding the above.

HMMU Staff Susan Rose

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P O BOX 85261
SAN DIEGO CA 92138-5261
(619) 236-2222

OFFICIAL NOTICE

June 7, 1989

Michael Ellis
Palomar College
1140 W. Mission Rd
San Marcos, Ca 92069

RE: UNAUTHORIZED RELEASE #T 1399/H03452
1140 W. Mission Rd, San Marcos, Ca.

Dear Mr. Ellis:

Information provided to this Department by laboratory results indicates that the underground hazardous substance storage facility at the location referenced above has experienced an Unauthorized Release (leak).

The conditions created by the Unauthorized Release must be reported and corrected in accordance with Sections 25295 and 25297 of Chapter 6.7 of the California Health and Safety Code (H&SC) and Section 2652, Subchapter 16, Chapter 3, Title 23 of the California Administrative Code (CAC), and Chapter 6.5 of the H&SC and Title 22 of the CAC.

As the owner/operator of the underground storage tank, it is your responsibility to:

1. Take immediate action to prevent further unauthorized release;
2. Determine the extent and impact of the unauthorized release;
3. Submit a written Unauthorized Release Report to this Department within five workdays of receipt of this Notice;
4. Complete and distribute within five workdays the enclosed State Water Resources Control Board's "Underground Storage Tank Unauthorized Release(Leak)/Contamination Site Report";
5. Submit supplemental report as required to update the initial report; and,
6. Complete any site mitigation (cleanup) required.

The Unauthorized Release Report must address all six Elements listed on the reverse side of this Official Notice, to the extent of the best information known at this time. Additional information and responsibilities are also listed. Please note Item G concerning responsibility for payment for staff time expended on the investigation.

Subsequent site characterization and mitigation actions will be determined upon evaluation of the written report and consultation with the Regional Water Quality Control Board and other appropriate regulatory agencies.

Please call me at (619) 236-2222 if you have any questions regarding this Official Notice.

Sincerely,

Susan Pease
Hazardous Materials Specialist

Enclosure

cc: RWQCB

FEDERAL

UNAUTHORIZED RELEASE REPORTING ELEMENTS

Each of the following must be addressed in the Unauthorized Release Report (CAC, Title 23, Chapter 3, Subchapter 16, Section 2652):

1. Describe the type, quantity and concentration of the hazardous substance released.

2. Describe the extent of the soil, groundwater, and/or surface water contamination due to the release based on the results of all investigations completed at the time the report is submitted.

3. Describe the method of clean-up implemented to date, proposed clean-up actions, and approximate costs of actions taken to date.

4. Indicate the method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water. (If any contaminated soil or water is removed from the site, include copies of the hazard waste manifests).

5. Describe the proposed method of repair or replacement of the underground tank/piping.

6. Include the tank operator's name and telephone number, the name and telephone number of any consultants retained, and a projection of proposed activity schedule.

NOTE: The completed SWRCB Form (enclosed) with appropriately detailed "comments" will usually suffice as meeting the requirements for the initial Unauthorized Release Report. You must distribute the completed form to all agencies as specified on the back of the form.

ADDITIONAL INFORMATION/RESPONSIBILITIES

A. Notify the local Fire Department immediately whenever a fire hazard or explosion hazard is present.

B. Notify the Regional Water Quality Control Board at (619) 265-5114 within 24 hours regarding this Unauthorized Release.

C. Cease the unauthorized release immediately by removing the hazardous substance from the system's leaking component(s), as necessary. Give careful consideration to proper tank ballast in areas of high groundwater. Ballast should be inert and compatible with tank residues (i.e., water).

D. Maintain the site in a safe and secure manner. The excavation, if any, may be backfilled in the interim for safety until site decontamination activities commence.

E. Obtain necessary permits for repair or removal of the underground tanks/piping from this Department, and other agencies, as appropriate.

F. Issuance of a permit to install new tanks at a site does not imply that any unauthorized release at the site has been mitigated to the satisfaction of this Department or any other regulatory agency.

G. Whereas the federal Petroleum Leaking Underground Storage Tank Trust Fund provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the federal Trust Fund; and Whereas the above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant to Subdivision (h) of Section 699(b) of the United States Code, the above Responsible Party or Parties shall reimburse the State Water Resources Control Board for all direct and indirect costs incurred by any and all state and local agencies while overseeing the cleanup of the above underground storage tank site; and the above Responsible Party or Parties shall make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110
(619) 225-9641
FAX (619) 224-8950

HMMU

OCT 19 10 29 AM '89

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

October 11, 1989

Job No. 7673

Environmental Health Services
Hazardous Materials Management Division
P.O. Box 85261
San Diego, California 921388-5261

Attention: Ms. Susan Pease

Subject: Unauthorized Release #T1399/H03452-001
1140 West Mission Road
San Marcos, California

Dear Ms. Pease:

This letter is being sent in response to your letter dated October 5, 1989 and received by this office October 11, 1989.

The two 55-gallon barrels on the site were removed October 10, 1989 with the chain of manifest to be mailed to your office by Palomar College.

rec'd 2/1/90

United States Testing Company, Inc. is planning to proceed with the installation of one monitoring well down gradient from the tank excavation pit as per Mr. Jim Munch's request. The installation of the well following the proper permit applications is slated for the latter part of October or during the first two weeks of November.

If you have any questions please contact our office at your earliest convenience.

Respectfully submitted,

Joseph L. Welch, RCE C040236
Geotechnical Department Manager

JLW/kk

cc: File Ref: (7673.jw)

State of California Health and Welfare Agency
Form Approved OMB No. 2050-0039 (Expires 9
Please print or type. (Form designed for use on el 2-pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CA 0 9 8 1 5 3 0 5 7 0 0 0 1
Manifest Document No.: "HMMU"

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
PALOMAR COLLEGE
1100 W. MISSION, SAN MARCOS, CA
4. Generator's Phone ( )

A. State Manifest Document Number: 88614417
B. State Generator's ID: HAH 03 6 0 0 0 1 5 0

5. Transporter 1 Company Name: R.C. BAXTER JR., INC.
6. US EPA ID Number: CAD 0 8 2 0 4 1 1 8 8
FEB 1 12 46 PM '90
C. State Transporter's ID: 6466-D
D. Transporter's Phone: 213/494-1700

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
P O BOX E, NTU ROAD
CASMALIA, CA 93429
10. US EPA ID Number: CAD 0 2 0 7 4 8 1 2 5
G. State Facility's ID
H. Facility's Phone: 805/937-8449

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY (CONTAMINATED SOIL)	0 0 2	D M		P	State 611 / EPA/Other CA ONLY
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99.0%
DIESEL 1.0%

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
USE ONLY APPROVED APPROPRIATE PROTECTIVE CLOTHING

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
D.M. RYAN		1	10	89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
		1	10	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802 WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110 (619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

July 13, 1989

Hazardous Materials Management Division
P.O. Box 85261
San Diego, CA 92138-5261

Attention: Ms. Sue Pease

Referenced Report: Laboratory Test Results
Fuel Tank Removal Site
Palomar College (Job No. 7673)
San Marcos, CA
Dated June 30, 1989

Dear Ms. Pease:

Enclosed is the revision of the referenced report which was submitted to you on July 7, 1989. As per our phone conversation on July 12, 1989 I have added the missing items from the Site Assessment Report Check List.

We apologize for any delays due to the missing items from the report and request that you continue to address any questions from our reports to our office. We seek to maintain our good rapport with the Hazardous Materials Management Division and appreciate your patience on this project. If you have any questions please contact our office at your earliest convenience.

Respectfully submitted, Reviewed by,

Shawn E. Williams
Project Geologist

Joseph L. Welch, RCE C040236
Geotechnical Department Manager

mhfd
cc: File Ref: 7673L.2

LABORATORY TEST RESULTS
FUEL TANK REMOVAL SITE
PALOMAR COLLEGE
SAN MARCOS, CALIFORNIA

SUBMITTED TO:

PALOMAR COLLEGE
1140 WEST MISSION ROAD
SAN MARCOS, CALIFORNIA 92069

SUBMITTED BY:

UNITED STATES TESTING CO. INC.
ENGINEERING & SUPPORT SERVICES
(FORMERLY TESTING ENGINEERS SAN DIEGO)

JOB NUMBER 7673R

JULY 13, 1989

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110 (619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

July 13, 1989

Job No. 7673R

Palomar College
1140 West Mission Road
San Marcos, California 92069

Attention: Mr. Bryant Guy

Subject: Laboratory Test Results
Fuel Tank Removal Site
Palomar College
San Marcos, California
HMMD File #HO 3452-T1399

Dear Mr. Guy:

We are pleased to present the results of the testing program for the subject site. This testing program was requested by Ms. Susan Pease of the Hazardous Materials Management Division (HMMD), of San Diego County.

The test results show that the soil samples were below the allowable limits for hydrocarbons. The test result for the water sample exceeded the allowable limit and indicates recent contamination which may have occurred during the tank pull process. The laboratory test results and our recommendations are included in this report.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact us at your convenience.

Respectfully submitted, Reviewed by,

Shawn E. Williams
Project Geologist

Joseph L. Welch, R.C.E. C040236
Geotechnical Manager

REGISTERED PROFESSIONAL ENGINEER
JOSEPH L. WELCH
No. C040236
Exp 9-30-90
CIVIL
STATE OF CALIFORNIA

cc: file ref. (7673R.ltr)

Enclosures
mhfd

(7673R)

TABLE OF CONTENTS

INTRODUCTION AND PROJECT SCOPE

This report presents the results of the laboratory testing conducted for the subject site Hazardous Materials Management Division (HMMD) File #H03452-T1399. The purpose of this investigation was to determine the parameters of the soil contamination in the fuel line trench and also to determine if any groundwater contamination is present.

The investigation consisted of obtaining four soil samples from the fuel line trench and one groundwater sample from the bottom of the tank excavation. All of the samples were tested for petroleum fuel hydrocarbons.

SITE DESCRIPTION

The site is located on the grounds of Palomar College in San Marcos, California. The site is bordered to the south by the Palomar College Campus grounds, to the north, east and west by undeveloped land. The assessor's parcel number for the subject property is 220-021-23. The location of the site is shown on Figure 1.

The site consists of several one-story wood frame buildings and two corrugated steel warehouse buildings. A good portion of the facility grounds are asphaltic covered parking areas.

SITE HISTORY

Prior to 1964 the subject site was undeveloped land with no agricultural use. In 1964 the maintenance building was constructed with one (1) 2000 gallon underground fuel tank (Tank 1) installed during the same time period. The 2000 gallon fuel tank was utilized for the storage of unleaded gasoline. Additionally one (1) 500 gallon above ground tank was installed approximately 5 feet east of Tank 1. The above ground tank was utilized for the storage of diesel. In 1978 one (1) 1000 gallon underground fuel storage tank (Tank 2) was installed approximately 70 feet to the east of Tank 1. This tank was also utilized for the storage of unleaded gasoline. On May 25, 1989 the above ground diesel fuel tank was removed from the subject site.

On May 26, 1989 the two underground fuel storage tanks were removed from the subject property with a representative from the San Diego County Health Department, Hazardous Materials Management Division on site to observe the tanks' removal. Seven soil samples were obtained from the Tank 1 and Tank 2 pit excavations and additionally in the fuel line trench. On June 1, 1989 Angus Asphalt obtained two (2) additional soil samples from the Tank 1 excavation south sidewall (please see previous

laboratory testing). The excavation was leveled with decomposed granite and a new 2000 gallon underground storage tank put in place. Additionally, the fuel line trench was backfilled.

FUTURE SITE USE

A 1000 gallon underground fuel tank is to be placed in the area of the removed 2000 gallon underground fuel tank (Tank 1). The immediate site area is to be developed with the construction of a metal workshop slated for construction for Spring/Summer 1990. The size of the building will be approximately 30 feet by 40 feet.

GENERAL SOIL AND GROUNDWATER CONDITIONS

The site is located in the community of San Marcos at an elevation of approximately 640 feet above sea level. It is situated on altered meta-volcanic rocks consisting of silicified pophyritic rocks.

The trench backfill consisted of decomposed granite (DG) which is composed of a silty coarse sand. The native soils underlying the trench excavation were a red sandy (medium) silt with traces of clay. The depth of native soils overlaying the silicified porphyritic rock varied from 2.5 to 4 feet in the exposed area noted in the tank excavation.

Groundwater was encountered at approximately 11 feet below the existing grade. We feel that this is perched groundwater and that the actual groundwater table is at a greater depth.

The location is within the San Marcos Hydrographic Subunit (CRWQCB: San Diego Basin plan 1975, with amendments through 1986). This subunit has designated beneficial uses of groundwater for municipal, agricultural and industrial proposes.

PREVIOUS TESTING

On May 26, 1989 seven (7) soil samples were obtained by Angus Asphalt from the tank's excavation pits and the fuel trench line with Total Petroleum Hydrocarbon (TPH) Tests by the Department of Health Services (DOHS) Method performed on each sample. The soil sample taken 20 feet east of Tank 1's excavation pit had a test result of 796 TPH which is above the action level limits. The remainder of the test results were below the action level limits.

On June 1, 1989 two additional soil samples were obtained by Angus Asphalt from the bottom of the Tank 1 excavation pit. The method of sampling was not observed by a member of the DOHS or UST. Sample #1 was taken approximately 8.6 feet below the existing grade and in the south wall of the excavation, 5 feet east from the southwest corner. Sample #2 was taken in the southwest corner of the tank excavation pit approximately 8.5 feet below the existing grade.

The test results from the previous testing are included as Appendix B.

TESTING PROGRAM

The United States Testing Company, Inc. testing program consisted of obtaining soil samples in the area of contamination noted in the fuel line trench. The fuel line trench had been backfilled and a new 1000 gallon tank had been set in place in the Tank-1 excavation pit when UST arrived on-site. A crane was brought on-

site to remove the new tank from the pit. A backhoe was on-site to excavate any contaminated soil and to excavate a sump to expose groundwater in the tank pit. For test sampling locations please refer to Figure 3. A sample (TR-1) of native soil material was taken approximately 2 feet below the existing grade in the fuel trench line approximately 20 feet east of the Tank 1 excavation pit. A second native soil sample (TR-4) was taken at 20 inches below the existing grade and 2 feet to the south (down gradient) of sample TR-1. A third soil sample (TR-3) was taken in the trench backfill located approximately 10 feet east of TR-1 and 30 feet east of the Tank 1 excavation pit, at a depth of approximately 18 inches below the existing surface. Another sample (TR-2) was taken from the trench backfill, approximately 20 feet east of the Tank 1 pit area and 18 inches below the existing surface. The trench backfill material from which this sample was taken was placed in two 55 gallon drums due to the strong hydrocarbon odor. These drums were labelled as hazardous material and are in a barricaded area.

No groundwater was exposed at the time of sampling, the backhoe excavated approximately 2 feet of decomposed granite before water seepage was noted.

One groundwater sample was obtained in the bottom of the Tank 1 excavation area approximately 11 feet below the existing grade in the southeast corner of the tank excavation pit. The depth of water in the bottom of the tank excavation was approximately 1 foot with a light sheen noted on the water surface. The sample was obtained by placing a glass vial underneath the surface of the water until the vial was filled with no air bubbles. The water which seeped into the bottom of the tank excavation was exposed approximately 7 minutes to air before being sampled.

Soil samples were collected in clean, wide mouthed, unpreserved, glass jars with teflon lined screw caps (obtained from the laboratory). The soil was packed tightly into the jars to reduce the void space. All soil samples were obtained immediately after exposure by the backhoe excavation to minimize volatilization. A new pair of plastic gloves was used for the collection of each soil sample.

The soil samples were placed in glass jars which were logged, labelled, placed in a covered ice chest and delivered the same day to a state certified analytical laboratory, following appropriate chain-of-custody procedures. The samples were analyzed for fuel hydrocarbons using the Department of Health Services TPH Method.

The water sample was placed in vials, logged, labelled and delivered the same day to the analytical laboratory, following appropriate chain-of-custody procedures.

The water sample was analyzed for fuel hydrocarbons using the Department of Health Services TPH Method.

TEST RESULTS

The native soil sample (TR-1) obtained 20 feet east of the Tank 1 excavation pit had no detectable amounts of hydrocarbons. The native soil sample (TR-4) taken 2 feet south of the contaminated area had no detectable amounts of hydrocarbons. The trench backfill sample (TR-3) taken 10 feet east of (TR-1) had no detectable amounts of hydrocarbons. The trench backfill sample TR-2 with a strong hydrocarbon odor taken 20 feet east of the Tank 1 excavation pit and above (TR-1) had 18 parts per million (mg/kg) of hydrocarbons.

The laboratory test results for the water sample (TW-1) had 81.2 parts per million (Mg/L) of hydrocarbon. The BTXE test result for the water sample was non-detectable for Benzene, Toluene Xylene and Ethylbenzene.

DISCUSSIONS AND CONCLUSIONS

During the initial tank removal soil 5/24/89 samples were taken from the bottom of the tank excavation and the fuel line trench with the test results below action levels in the Tank 1 excavation. No water was observed and one soil sample from the fuel trench tested high. Five days later in preparation of sitting a new 5/31/89 tank, hydrocarbon odors were noted at the southern end of the excavation with water encountered at a depth of approximately 10.5 feet. Two native soil, but no water samples were taken with 5/31/89 the area backfilled with decomposed granite. Soil samples were again below action levels. Twenty days later the trench and 6/22/89 southern end of the tank excavation were reopened. In this instance four (4) soil samples were taken from the trench area. A water sample was obtained from the bottom of the Tank 1 excavation in a sump excavation in the southeast corner of the pit. Soil samples were again below action levels; however, the water sample had 81 TPH with BTXE below detection limits. Based on the fact that the soil sample obtained at a coupling in the fuel line trench tested high (800 TPH) indicates the possibility of a limited release when the coupling was removed.

Tests taken 1 foot below the coupling location show no evidence of soil contamination which supports the contention the release did not have time to infiltrate the surrounding area. It would appear the release could have run down the trench and entered the southeastern end of the excavation contaminating the water.

RECOMMENDATIONS

The amount of contamination noted in the fuel trench line appears to be limited in nature with the area of contaminated soil being placed in two 55-gallon drums. Although the TPH result of 18 ppm (mg/kg) is below the normal action level we recommend that the two drums of soil materials be disposed of as hazardous material at a Class I Level landfill. This recommendation is due to the total costs from additional laboratory tests required by the Department of Health Services in order to dispose of the drums at a Level III landfill will be greater than to dispose of the drums as hazardous material at a Level I landfill. Copies of the waste manifests will be given to the Department of Health Services upon disposal of the two drums.

In a conversation with Ms. Sue Pease of the Hazardous Material Management Division it was discussed that a monitoring well be placed on the subject property in order to obtain a representative sample of the perched groundwater table. We feel

that our recommendation proposed in our June 30th report should still be implemented in addition to the installation of the monitoring well. If laboratory results from the water pumped form the tank pit excavation indicate that the water is contaminated the water shall be disposed of as hazardous waste and copies of the waste manifests will be given to the Department of Health Services.

We recommend that the proposed monitoring well be placed approximately 10 feet south of the Tank 1 excavation pit (please see Figure 4) and be 20 feet in depth. This recommendation is based on our belief that the perched groundwater is following the natural topography which slopes to the south and that the contaminated groundwater is limited in nature. We would additionally like to submit that if initial results come up negative from the well, that the well be placed on a 2 quarter testing program and destroyed by the Department of Health Services Regulations if all test results are negative. At that time we would request that the site be granted closure status.

ESTIMATED COSTS

We estimate that it will take approximately one day for the boring and installation of the monitoring well due to the presence of formational rock. The price breakdown of our services is listed below.

PUMPING TANK 1 EXCAVATION

6 Hours Pump Tanker @ $75.00/hour	$ 450.00
5 Hours Staff Geologist @ $50.00/hour	$ 250.00
* If Tests Indicate Hazardous Material for disposal @ $1.00/gallon	$ 300.00
SUB TOTAL	$ 1,000.00

FIELD INVESTIGATION

6 Hours Drilling @ $160.00/hour	$ 960.00
1 Well Permit @ $150.00/hour	$ 150.00
10 Hours Staff Geologist @ $50.00/hour	$ 500.00
Well Materials (PVC Casing, Bentonite, Slurry Seal, Locking Cap	$ 250.00
SUB TOTAL	$ 1,860.00

LABORATORY TESTING

Well Purging and Sampling

3 Water samples for TPH @$75.00/each ($150.00 2-day Rush)	$ 225.00
1 Water EPA 601 @ $135.00/each	$ 135.00
SUB TOTAL	$ 360.00

REPORT PREPARATION

Staff Geologist - 10 Hours $50.00/hour	$ 500.00
SUB TOTAL	$ 500.00
TOTAL ESTIMATE COST	$ 3,720.00

INVESTIGATION LIMITATIONS

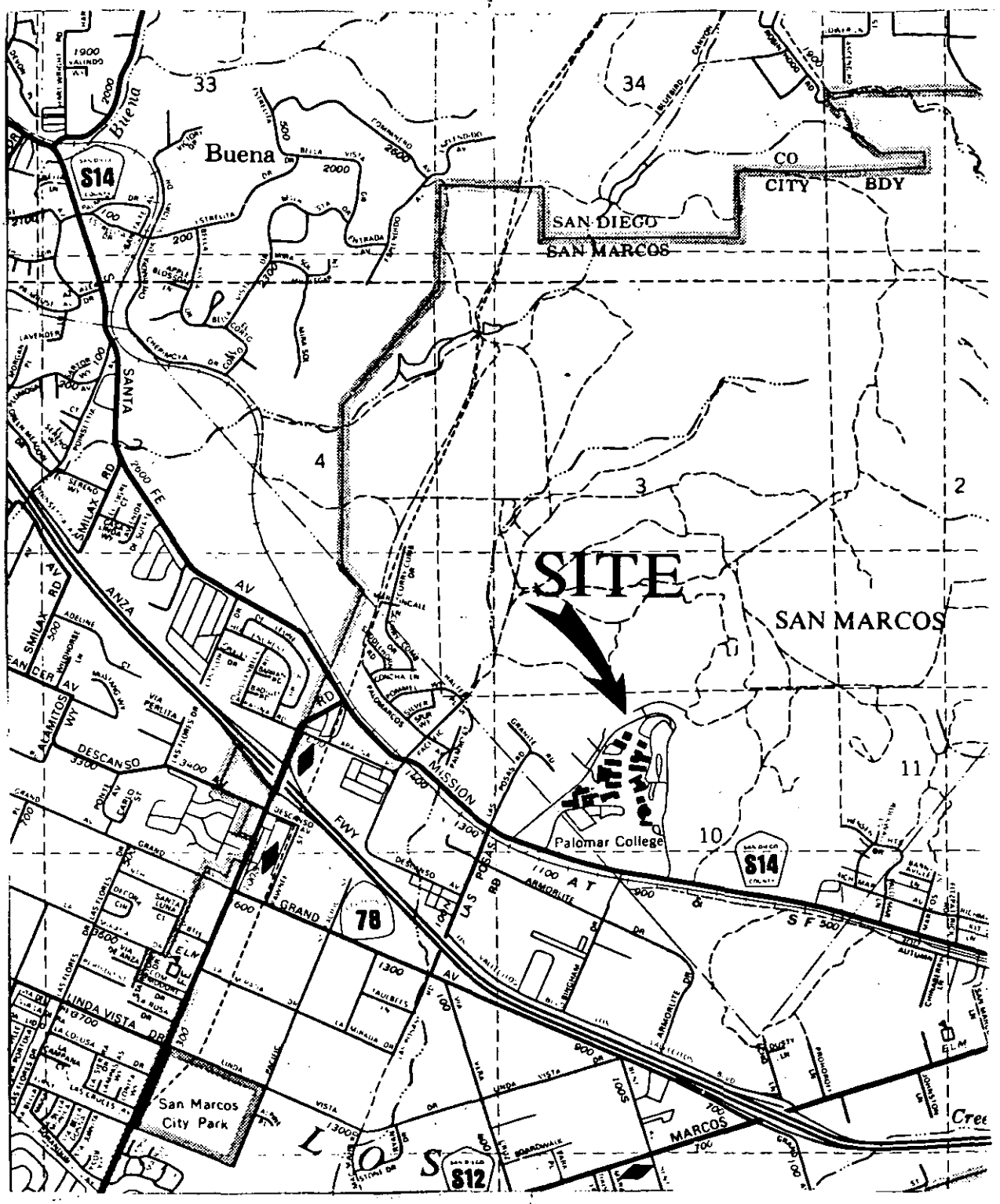
This investigation was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable Engineers and Geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

The samples taken and used for testing and the observations made are believed representative of the entire project; however, soil conditions as well as chemical contaminant concentrations can vary significantly between sampling locations.

This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the regulatory agencies as may be required by law.

The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Therefore the findings of this report may be wholly or partially invalidated by changes outside of our control.

HD 3452



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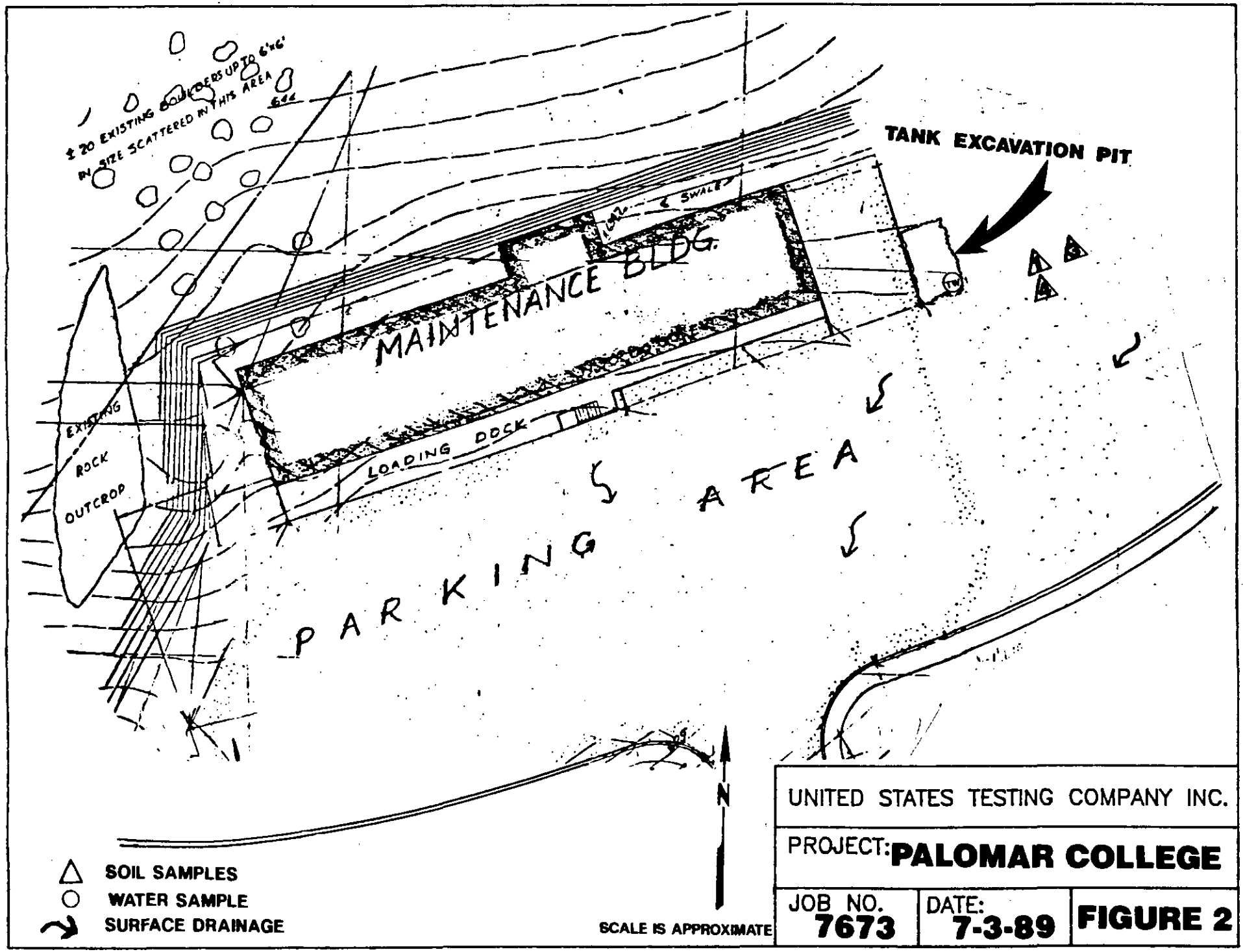
UNITED STATES TESTING COMPANY INC.		
PROJECT: **PALOMAR COLLEGE**		
JOB NO. **7673**	DATE: **7-3-89**	**FIGURE 1**

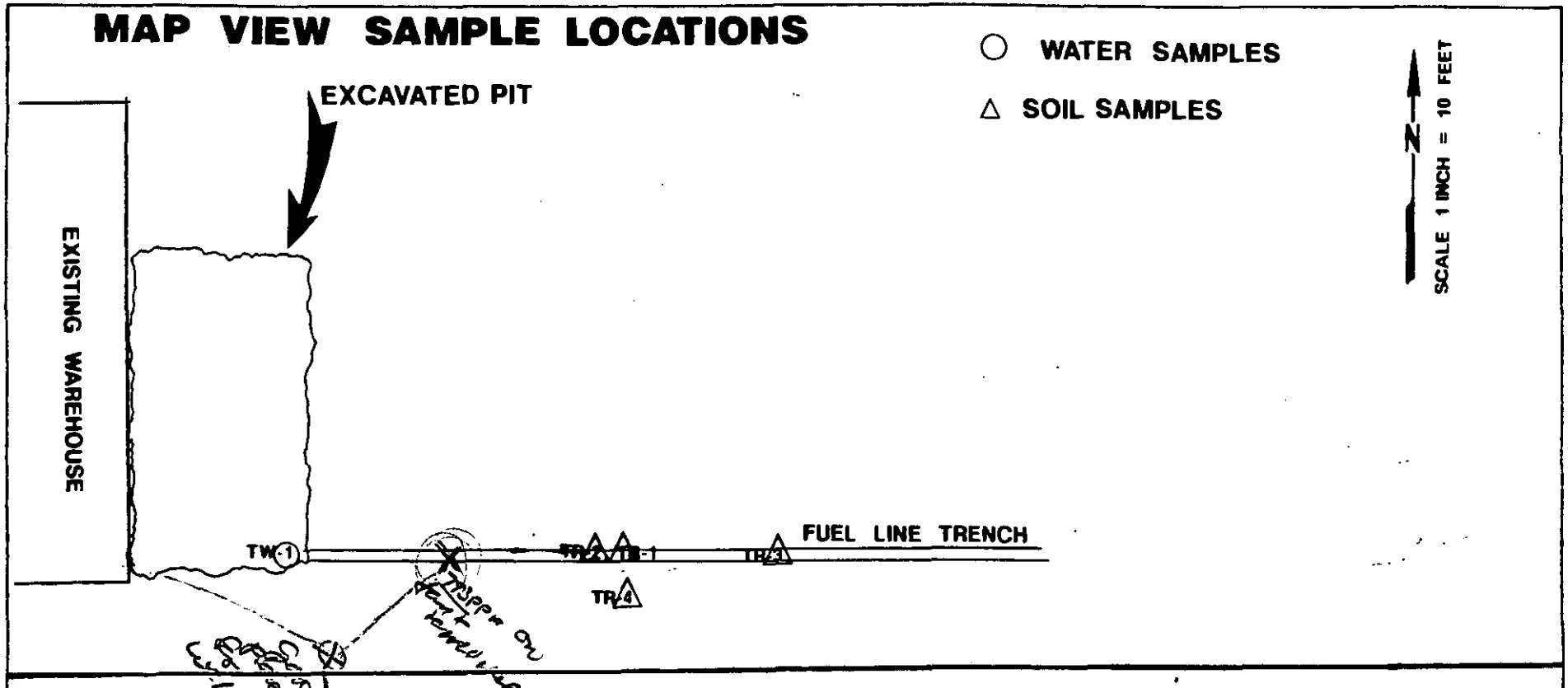


UNITED STATES TESTING COMPANY INC.

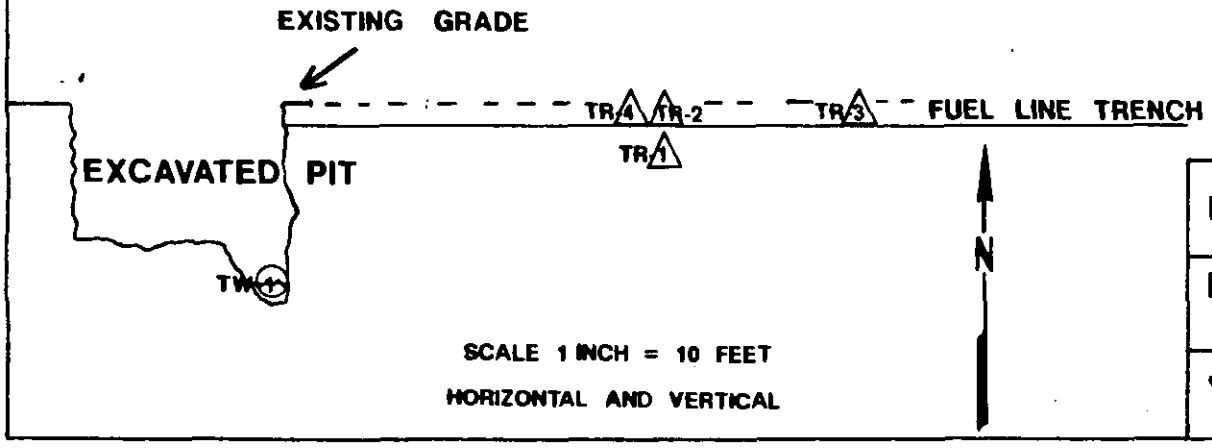
PROJECT: **PALOMAR COLLEGE**

JOB NO.	DATE:	
7673	**7-3-89**	**FIGURE 2**

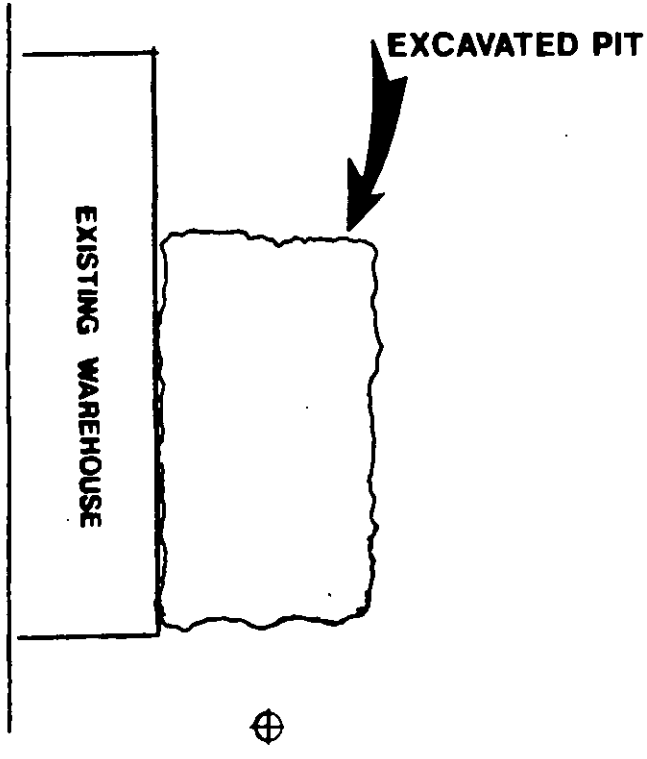
MAP VIEW SAMPLE LOCATIONS

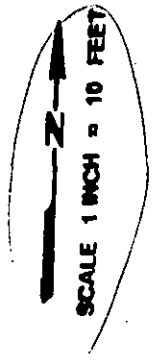


CROSS SECTION OF SAMPLE LOCATIONS



UNITED STATES TESTING COMPANY INC.		
PROJECT: **PALOMAR COLLEGE**		
JOB NO. **7673**	DATE: **7-5-89**	**FIGURE 3**





PROPOSED MONITORING WELL LOCATION ⊕

UNITED STATES TESTING COMPANY INC.		
PROJECT: **PALOMAR COLLEGE**		
JOB NO. **7673**	DATE: **7-13-89**	**FIGURE 4**

PREVIOUS TESTING PROGRAM

TABLE 1 - PART I

Date Stamped	Sample #	Evaluation	Matrix Type	TPH *
5/26/89	1-North	-9.4' below grade (Tank 1)	soil	26 ppm
5/26/89	2-South	-7.4' below grade (Tank 1)	soil	<0.5 ppm
5/26/89	2-North	-9.0' below grade (Tank 2)	soil	<0.5 ppm
5/26/89	2-South	-9.0' below grade (Tank 2)	soil	<0.5 ppm
5/26/89	Product Line 1	20' east Tank 1	soil	796 ppm
5/26/89	Product Line 2	40' east Tank 1	soil	<0.5 ppm
5/26/89	Product Line 3	60' east Tank 1	soil	<0.5 ppm
6/1/89	1	-8.5' below grade (Tank 1)	soil	90.0 ppm
6/1/89	2	-8.5' below grade (Tank 1)	soil	18.3 ppm

Tank Removal Results

* TOTAL PETROLEUM HYDROCARBONS

UNITED STATES TESTING PROGRAM

TABLE 1 - PART II

Date Tested	Sample No.	Elevation	Soil Type	TPH*
7/3/89	TR-1 -20"	B.G.,20'east (Tank 1)	Native	<0.5 ppm
7/3/89	TR-2 -18"	B.G.,20'east (Tank 1)	D.G.	18.2 ppm
7/3/89	TR-3 -18"	B.G.,30'east (Tank 1)	D.G.	<0.5 ppm
7/3/89	TR-3 -20"	B.G.,22'east (Tank 1)	Native	<0.5 ppm
7/3/89	TW-1 -11"	below grade (Tank 1)	Water	81.2 ppm

See not notes

Sample	BENZENE EPA 8020	TOLUENE EPA 8020	XYLENE EPA 8020	ETHLY-BENZENE EPA 8020
TW-1	<0.5	<0.5	<0.5	<0.5

* TOTAL PETROLEUM HYDROCARBONS

APPENDIX A

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

TESTING ENGINEERS
ATTN: SHAWN WILLIAMS
3467 KURTZ STREET
SAN DIEGO, CA 92110

DATE OF REPORT	JUNE 28, 1989
DATE RECEIVED	JUNE 22, 1989
DATE OF SAMPLE	JUNE 22, 1989
DATE COMPLETED	JUNE 28, 1989
ANALYZED BY	DB MH
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	JOB #7673

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID\LOCATION\TYPE			ANALYSIS: TPH METHOD: DHS** UNITS: PPM	BENZENE EPA 8020 PPM	TOLUENE EPA 8020 PPM	XYLENE EPA 8020 PPM	ETHYLBENZENE EPA 8020 PPM
7608-89	TR-1	TRENCH	SOIL	<0.5/<0.5*				
7609-89	TR-2	(BARREL) TRENCH	SOIL	18.7				
7610-89	TR-3	EAST	SOIL	<0.5				
7611-89	TR-4	DOWNGRADIENT	SOIL	<0.5				
7612-89	TW-1		WATER	81.2	<0.5	<0.5	<0.5	<0.5

* DUPLICATE ANALYSIS

TPH - TOTAL PETROLEUM HYDROCARBONS

** RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

PS/at

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: Testing Engineers - US TESTING Co.

PROJECT NAME/NUMBER: Palomar College Job # 7673

Q.A. LOG NUMBER: 7608 TO 7612-89

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
TR-1	6-22-89	Trench	Glass Jar	Soil	TPH (DOHS)	Two Day Rush
TR-2	"	(Barrel) Trench	"	"		
TR-3	"	East	"	"		
TR-4	"	Downgradient	"	"		
TW-1	6/22/89		2 VOA	H_2O		
					call w/ results of TPH possible additional req of BTXE	

SEND RESULTS TO ATTN: Shawn Williams

PHONE #: 225-9641

MAIL TO: 3467 Kurtz Street
San Diego CA 92110

RELINQUISHED BY	DATE/TIME	RECEIVED BY
SEW	6/22/89	
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

APPENDIX B

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF REPORT	JUNE 1, 1989
DATE RECEIVED	MAY 26, 1989
DATE OF SAMPLE	MAY 26, 1989
DATE COMPLETED	JUNE 1, 1989
ANALYZED BY	MS MH
SAMPLE TYPE	7 SOIL

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6307-89	1-NORTH	NORTH END - 9'4"	26
6308-89	1-SOUTH	SOUTH END - 7'4"	<0.5
6309-89	2-NORTH	9' BG	<0.5
6310-89	2-SOUTH	9' BG	<0.5
6311-89	PRODUCT LINE 1	20' FROM TANK 1	796
6312-89	PRODUCT LINE 2	40' FROM TANK 1	<0.5
6313-89	PRODUCT LINE 3	60' FROM TANK 1	<0.5

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

Peter Shen DW
PETER SHEN
LABORATORY DIRECTOR

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF REPORT	JUNE 5, 1989
DATE RECEIVED	JUNE 1, 1989
DATE OF SAMPLE	JUNE 1, 1989
DATE COMPLETED	JUNE 2, 1989
ANALYZED BY	MB
SAMPLE TYPE	2 SOIL
PROJECT NAME	?ALOMAR COLLEGE
PROJECT NUMBER	159

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6597-89	1	SOUTH END	90.0
6598-89	2	SOUTHWEST	18.3

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

QUALITY ASSURANCE LABORATORY

1989 JUN -8 AM 11:56

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF QC REPORT	JUNE 5, 1989
DATE RECEIVED	MAY 26, 1989
DATE OF SAMPLE	MAY 26, 1989
DATE COMPLETED	JUNE 1, 1989
ANALYZED BY	MS MH
SAMPLE TYPE	7 SOIL

Quality Control Data

for

Log #6307-89 and #6313-89

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 586-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

County Of San Diego — **Chain-of-custody Record** — DATE 5/26/89 PAGE 1 OF 1

Project Name: Palomar College
Reference: 1140 W Mission Rd
Address: San Marcos, Ca 92069
Samplers Signature: Scott [signature]
Lab To Be Used: QAL

COPY OF LAB RESULTS MUST BE SENT TO:
County Of San Diego
Hazardous Materials Management Division
P.O. Box 85261
San Diego, Ca 92138-5261

SAMPLE NO	DATE	TIME	LOCATION	TPH DOHS METHOD	TPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
1-North	5/26/89	13:50	North end - 7'	X						X		X		1	Sandy ~~Native~~ Backfill
1 South	5/26/89	13:55	South end - 7'	X						X		X		1	
2-North	5/26/89	14:20	9' BG	X						X		X		1	
2-South	5/26/89	14:25	9' BG	X						X		X		1	
Product Line 1	5/26/89	14:00	20' from tank	X						X		X		1	
Product Line 2	5/26/89	14:05	40' from tank	X						X		X		1	
Product Line 3	5/26/89	14:15	60' from tank	X						X		X		1	
				X						X		X		1	7-DAY FIRM

1 RELINQUISHED BY	Date / Time	2 RELINQUISHED BY	Date / Time	3 RELINQUISHED BY	Date / Time
Signature: Robert D Miller		Signature:		Signature:	
Printed Name: ROBERT D MILLER		Printed Name:		Printed Name:	
Company: ANGUS ASPHALT		Company:		Company:	
RECEIVED BY		RECEIVED BY		RECEIVED BY (LAB)	Date 5/26/89
Signature:		Signature:		Signature: [signature]	
Printed Name:		Printed Name:		Printed Name: V. Pennick	Time 4:20
Company:		Company:		Company: QALAB	

7 TOTAL NO. OF CONTAINERS

Sample Condition:
Received On Ice — Yes/No
Tape Seal Intact — Yes/No

Special Shipment/Handling Or Storage Requirements:
6307-6313-89

Split Sample Location

Site Identification
H# 03452 AT# 117226
HMMD

DHS:HM-999 (08/88)

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110 (619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

June 30, 1989

Job No. 7673

Palomar College
1140 West Mission Road
San Marcos, California 92069

Attention: Mr. Bryant Guy

Subject: Laboratory Test Results
Fuel Tank Removal Site
Palomar College
San Marcos, California

Dear Mr. Guy:

We are pleased to present the results of the testing program for the subject site. This testing program was requested by Ms. Susan Peage of the Hazardous Materials Management Division (HMMD), of San Diego County.

The test results show that the soil samples were below the allowable limits for hydrocarbons. The test result for the water sample exceeded the allowable limit and indicates recent contamination which may have occurred during the tank pull process. The laboratory test results and our recommendations are included in this report.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact us at your convenience.

Respectfully submitted, Reviewed by,

Shawn E. Williams
Project Geologist

Joseph L. Welch, R.C.E. C040236
Geotechnical Manager

cc: file ref. (7673.ltr)

Enclosures

cm

REGISTERED PROFESSIONAL ENGINEER
JOSEPH L. WELCH
No. C040236
Exp 9-30-90
CIVIL
STATE OF CALIFORNIA

rec'd 7-3-89

LABORATORY TEST RESULTS
FUEL TANK REMOVAL SITE
PALOMAR COLLEGE
SAN MARCOS, CALIFORNIA

FOR:

PALOMAR COLLEGE
1140 WEST MISSION ROAD
SAN MARCOS, CALIFORNIA 92069

JOB NUMBER 7673

JUNE 30, 1989

TABLE OF CONTENTS

INTRODUCTION AND PROJECT SCOPE

This report presents the results of the laboratory testing conducted for the subject site. The purpose of this investigation was to determine the parameters of the soil contamination in the fuel line trench and also to determine if any groundwater contamination existed.

The investigation consisted of obtaining four soil samples from the fuel line trench and one groundwater sample from the bottom of the tank excavation. All of the samples were tested for petroleum fuel hydrocarbons.

SITE DESCRIPTION

The site is located on the grounds of Palomar College in San Marcos, California. The site is bordered to the south by the Palomar College Campus grounds, to the north, east and west by undeveloped land. The location of the site is shown on Figure 1.

The site consists of several one-story wood frame buildings and two corrugated steel warehouse buildings. A good portion of the facility grounds are asphaltic covered parking areas.

updated version rec'd 7-7-89 removed Pg 2-6 old report replaced with new report

GENERAL SOIL AND GROUNDWATER CONDITIONS

The site is located in the community of San Marcos at an elevation of approximately 640 feet above sea level. It is situated on altered meta-volcanic rocks consisting of silicified pophyritic rocks.

The trench backfill consisted of decomposed granite (DG) which is composed of a silty coarse sand. The native soils underlying the trench excavation were a red sandy (medium) silt with traces of clay.

Groundwater was encountered at approximately 11 feet below the existing grade. We feel that this is perched groundwater and that the actual groundwater table is at a greater depth.

how long was the hole left open?

The location is within the San Marcos Hydrographic Subunit (CRWQCB: San Diego Basin plan 1975, with amendments through 1986). This subunit has designated beneficial uses of groundwater for municipal, agricultural and industrial proposes.

PREVIOUS TESTING

On May 26, 1989 seven (7) soil samples were obtained by Angus Asphalt from the tank excavation pit and the fuel trench line with Total Petroleum Hydrocarbon (TPH) Tests by the Department of Health Services (DOH) Method performed on each sample. The soil sample taken 20 feet east of the tank excavation pit had a test result of 796 TPH which is above the action level limits. The remainder of the test results were below the action level limits. On June 1, 1989 two additional soil samples were obtained by Angus Asphalt from the bottom of the tank excavation pit located adjacent to the maintenance building. Sample #1 was taken approximately 8.6 feet below the existing grade and in the south wall of the excavation, 5 feet east from the southwest corner. Sample #2 was taken in the southwest corner of the tank excavation pit approximately 8.5 feet below the existing grade. The test results from the previous testing are included as Appendix B.

TESTING PROGRAM

The United States Testing Company, Inc. testing program consisted of obtaining soil samples in the area of contamination noted in the fuel line trench. For test sampling locations please refer to Figure 3. A sample (TR-1) of native soil material was taken approximately 2 feet below the existing grade in the fuel trench line approximately 20 feet east of the tank excavation pit. A

second native soil sample (TR-4) was taken at 20 inches below the existing grade and 2 feet to the south (down gradient) of sample TR-1. A third soil sample (TR-3) was taken in the trench backfill located approximately 10 feet east of TR-1 and 30 feet east of the tank excavation pit, at a depth of approximately 18 inches below the existing surface. Another sample (TR-2) was taken from the trench backfill, approximately 20 feet east of the tank pit area and 20 inches below the existing surface. The trench backfill material from which this sample was taken was placed in 55 gallon drums due to the strong hydrocarbon odor. One groundwater sample was obtained in the bottom of the tank excavation area approximately 11 feet below the existing grade in the southeast corner of the tank excavation pit. The depth of water in the bottom of the tank excavation was approximately 1 foot with a light sheen noted on the water surface.

The soil samples were placed in glass jars which were logged, labelled and delivered the same day to a state certified analytical laboratory, following appropriate chain-of-custody procedures. The samples were analyzed for fuel hydrocarbons using the Department of Health Services TPH Method.

The water sample was placed in vials, logged, labelled and delivered the same day to the analytical laboratory, following appropriate chain-of-custody procedures.

The water sample was analyzed for fuel hydrocarbons using the Department of Health Services TPH Method.

TEST RESULTS

The native soil sample (TR-1) obtained 20 feet east of the tank excavation pit had no detectable amounts of hydrocarbons. The native soil sample (TR-4) taken 2 feet south of the contaminated area had no detectable amounts of hydrocarbons. The trench backfill sample (TR-3) taken 10 feet east of (TR-1) had no detectable amounts of hydrocarbons. The trench backfill sample TR-2 with a strong hydrocarbon odor taken 20 feet east of the tank excavation pit and above TR-1 had 18 parts per million (mg/kg) of hydrocarbons.

The laboratory test results for the water sample (TW-1) had 81.2 parts per million (Mg/L) of hydrocarbon. The BTXE test result for the water sample was non-detectable for Benzene, Toluene xylene and Ethylbenzene.

DISCUSSIONS AND CONCLUSIONS

1. The hydrocarbon levels noted in all of the soil samples from the trench were below the allowable limits of 100 ppm.

2. Hydrocarbon levels in the water sample from the bottom of the tank excavation area were above the allowable limits for a beneficial use area. However, the non-detectable BTXE test results indicate that the contamination is recent in nature and could be the result of spillage during the tank pull procedures.

RECOMMENDATIONS

The information and data available indicates that the area of contamination in the fuel trench line is very limited in nature and may have been resultant of spillage during tank pull. Test results indicate that the material in the barrels which we thought to be contaminated is below the usual action limit of 100 ppm. Therefore, we would recommend that the material is suitable for a Class III landfill.

The excavation in the bottom of the tank removal area should be enlarged in order to expose more perched groundwater. The perched groundwater exposed should be removed by a pump truck allowed to recharge, pumped again and after recharge a water sample taken for a Department of Health Services TPH analysis. If these recommendations meet with the approval of the Hazardous Materials Management Division we will be pleased to submit a written proposal outlining these services.

?? need representative sample

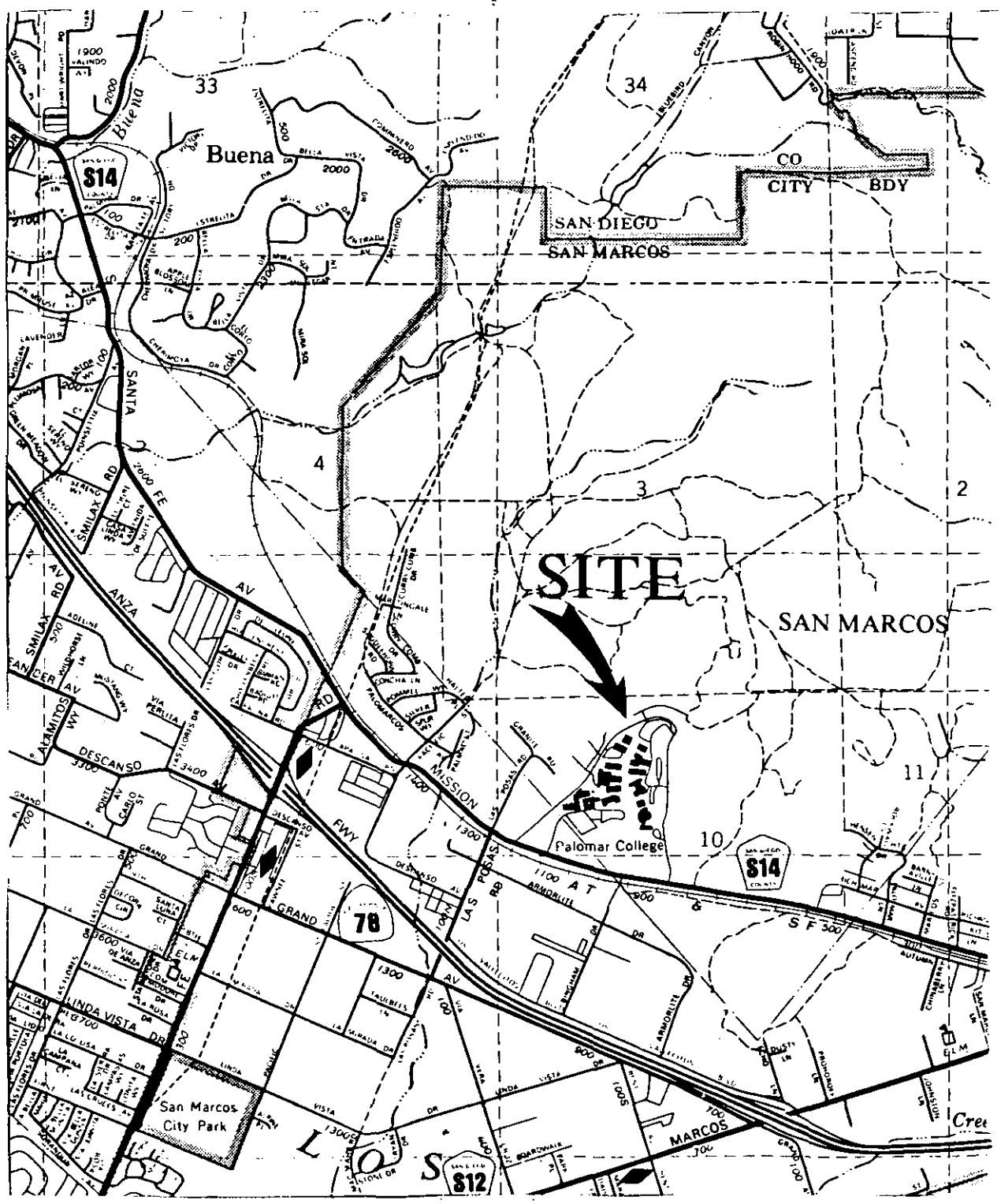
INVESTIGATION LIMITATIONS

This investigation was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable Engineers and Geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

The samples taken and used for testing and the observations made are believed representative of the entire project; however, soil conditions as well as chemical contaminant concentrations can vary significantly between sampling locations.

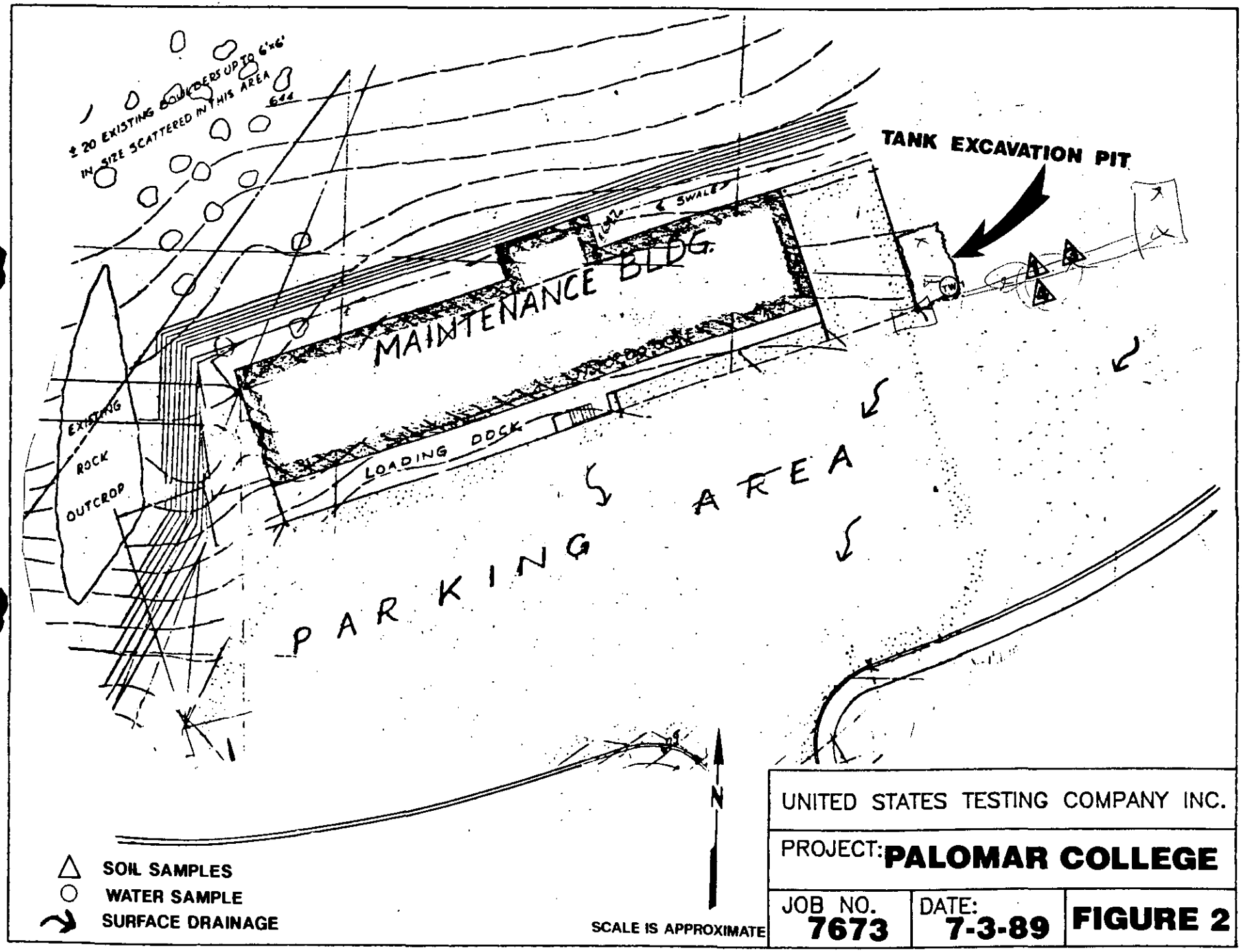
This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the regulatory agencies as may be required by law.

The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Therefore the findings of this report may be wholly or partially invalidate by changes outside of our control.



N

UNITED STATES TESTING COMPANY INC.		
PROJECT: **PALOMAR COLLEGE**		
JOB NO. **7673**	DATE: **7-3-89**	**FIGURE 1**

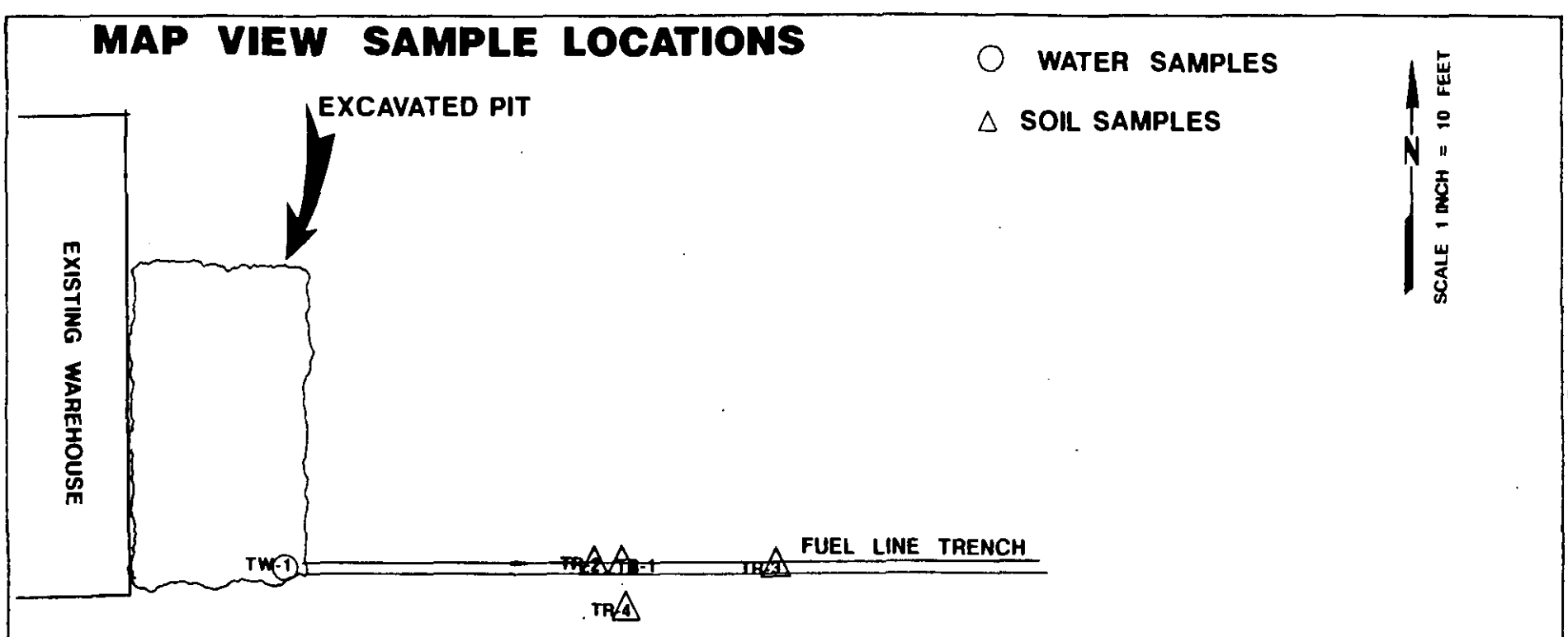


UNITED STATES TESTING COMPANY INC.

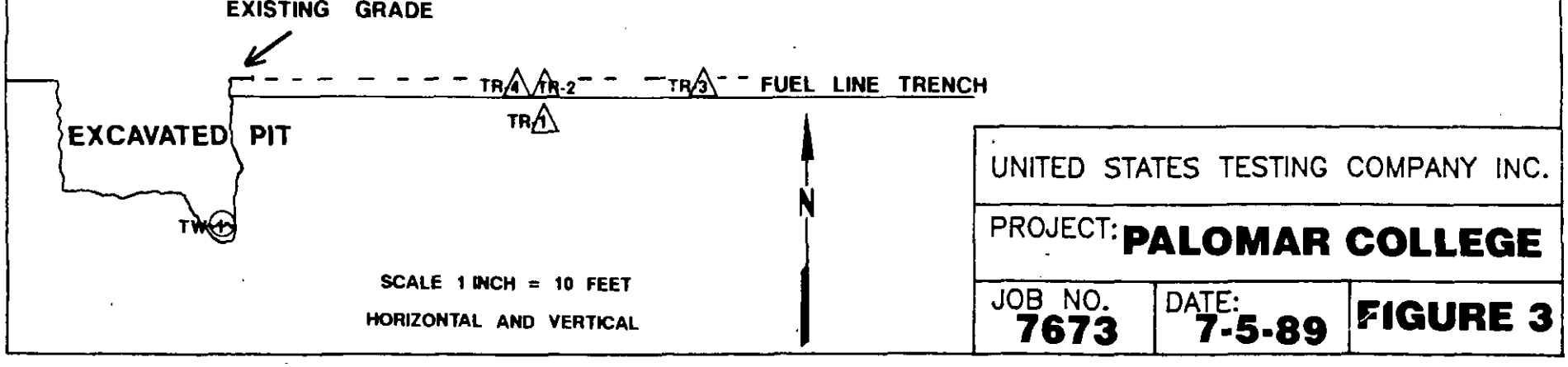
PROJECT: **PALOMAR COLLEGE**

JOB NO.	DATE:	
7673	**7-3-89**	**FIGURE 2**

MAP VIEW SAMPLE LOCATIONS



CROSS SECTION OF SAMPLE LOCATIONS



UNITED STATES TESTING COMPANY INC.		
PROJECT: **PALOMAR COLLEGE**		
JOB NO. **7673**	DATE: **7-5-89**	**FIGURE 3**

APPENDIX A

QUALITY ASSURANCE LABORATORY
5255 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

TESTING ENGINEERS
ATTN: SHAWN WILLIAMS
3467 KURTZ STREET
SAN DIEGO, CA 92110

REVISED REPORT	JULY 3, 1989
DATE OF REPORT	JUNE 28, 1989
DATE RECEIVED	JUNE 22, 1989
DATE OF SAMPLE	JUNE 22, 1989
DATE COMPLETED	JUNE 28, 1989
ANALYZED BY	DB MH
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	JOB #7673

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID\LOCATION\TYPE			ANALYSIS: TPH METHOD: DHS** UNITS: PPM	BENZENE EPA 8020 PPM	TOLUENE EPA 8020 PPM	XYLENE EPA 8020 PPM	ETHYLBENZENE EPA 8020 PPM
7608-89	TR-1	TRENCH	SOIL	<0.5/<0.5*				
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7610-89	TR-3	EAST	SOIL	<0.5				
7611-89	TR-4	DOWNGRADIENT	SOIL	<0.5				
7612-89	TW-1		WATER	81.2	<0.5	<0.5	<0.5	<0.5

* DUPLICATE ANALYSIS

TPH - TOTAL PETROLEUM HYDROCARBONS

** RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

QA/QC DATA

4 POINT CALIBRATION CURVE %RSD: 3.8%
CONTINUING CALIBRATION CURVE VERIFICATION: 94%
MATRIX SPIKE RECOVERY: 97%
DUPLICATE RPD: ND/ND

PETER SHEN
LABORATORY DIRECTOR

PS/at

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: Testing Engineers - US TESTING Co.

PROJECT NAME/NUMBER: Palomar College Job # 7673

Q.A. LOG NUMBER: 7608 TO 7612-89

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
TR-1	6-22-89	Trench	Class Jar	Soil	TPH (DOHS)	Two Day Rush
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TR-3	"	East	"	"		
TR-4	"	Downgradient	"	"		
TW-1	6/22/89		2 VOA	H_2O	↓	↓
					call w/results of TPH	
					possible additional req	
					of BTXE	

SEND RESULTS TO ATTN: Shawn Williams

PHONE #: 225-9641

MAIL TO: 3467 Kurtz Street
San Diego CA 92110

RELINQUISHED BY	DATE/TIME	RECEIVED BY
SEW	6/22/89	
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

APPENDIX B

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF REPORT	JUNE 5, 1989
DATE RECEIVED	JUNE 1, 1989
DATE OF SAMPLE	JUNE 1, 1989
DATE COMPLETED	JUNE 2, 1989
ANALYZED BY	MB
SAMPLE TYPE	2 SOIL
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	159

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6597-89	1	SOUTH END	90.0
6598-89	2	SOUTHWEST	18.3

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
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ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF REPORT	JUNE 1, 1989
DATE RECEIVED	MAY 26, 1989
DATE OF SAMPLE	MAY 26, 1989
DATE COMPLETED	JUNE 1, 1989
ANALYZED BY	M8 MH
SAMPLE TYPE	7 SOIL

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6307-89	1-NORTH	NORTH END - 9'4"	26
6308-89	1-SOUTH	SOUTH END - 7'4"	<0.5
6309-89	2-NORTH	9' BG	<0.5
6310-89	2-SOUTH	9' BG	<0.5
6311-89	PRODUCT LINE 1	20' FROM TANK 1	796
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TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

Peter Shen DW
PETER SHEN
LABORATORY DIRECTOR

QUALITY ASSURANCE LABORATORY

1989 JUN -8 AM 11:56

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF QC REPORT	JUNE 5, 1989
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ANALYZED BY	MS MH
SAMPLE TYPE	7 SOIL

Quality Control Data

for

Log #6307-89 and #6313-89

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 586-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

Total Petroleum Hydrocarbons - DHS Method (Recommended procedure from Leaking Underground Fuel Tank Manual, May 1988)

Calibration Standard:
Relative Standard Deviation (4 point curve): 6.2 %

Continuing Calibration Curve Verification
Expected Concentration: 500 ppm
Recovered : 443 ppm
% Recovery: 88 %

Matrix Spike Recovery
Log #6169-89
Spike amount: 500 ppm
Recovered: 461 ppm
% Recovery: 91 %

Precision Data
Log #6166-89 was analyzed in duplicate.
Log #6166 concentration: 283 ppm
Log #6166 duplicate conc:369 ppm
Relative Percent Difference: 26 %

Sheri D. Stanley
Sheri D Stanley
QA\QC Officer

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED 30 12 02 PM DATE

REPORT DATE: M 6 M 2 D 9 D 8 Y 9 Y

CASE # H0345?/T1399

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Shawn Williams
PHONE: (619)225-9641
SIGNATURE: Shawn Williams

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER
COMPANY OR AGENCY NAME: United States Testing

ADDRESS: 3467 Kurtz Street STREET San Diego CITY CA STATE 92110 ZIP

RESPONSIBLE PARTY

NAME: Palomar College ☐ UNKNOWN
CONTACT PERSON: Mike Ellis
PHONE: ext. 2655 (619)744-1150

ADDRESS: 1140 West Mission Ave STREET San Marcos CITY CA STATE 92069 ZIP

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Palomar College
OPERATOR: Mike Ellis
PHONE: ext 2655 (619)744-1150

ADDRESS: 1140 West Mission Ave STREET San Marcos CITY CA COUNTY San Diego ZIP 92009

CROSS STREET
TYPE OF AREA ☐ COMMERCIAL ☐ INDUSTRIAL ☐ RURAL ☒ RESIDENTIAL ☐ OTHER
TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ FARM ☒ OTHER College

IMPLEMENTING AGENCIES

LOCAL AGENCY: HMMD
AGENCY NAME
CONTACT PERSON: Susan Peace
PHONE: (619)338-2222

REGIONAL BOARD: RWQCB
CONTACT PERSON: Jim Munch
PHONE: (619)265-5114

SUBSTANCES INVOLVED

(1) NAME: Unleaded Gasoline
QUANTITY LOST (GALLONS): ☒ UNKNOWN

(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: M 5 M 2 D 6 D 8 Y 9 Y
HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER

DATE DISCHARGE BEGAN: M M D D Y Y ☒ UNKNOWN

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☒ OTHER Remove Tank

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE M 5 M 2 D 6 D 8 Y 9 Y

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☐ TANK LEAK ☐ UNKNOWN ☒ PIPING LEAK ☐ OTHER

TANKS ONLY/CAPACITY: 1000 GAL. AGE 20+ YRS ☐ UNKNOWN

MATERIAL: ☐ FIBERGLASS ☒ STEEL ☐ OTHER

CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☒ UNKNOWN ☐ SPILL ☐ OTHER

CASE TYPE

CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☒ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☒ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☒ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☒ OTHER (OT)

COMMENTS

HSC 05 (4/87)

INSTRUCTIONS

EMERGENCY
Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY
To avoid duplicate notification pursuant to Health and Safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY
Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY
Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION
Enter information regarding the tank facility and surrounding area. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES
Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED
Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT
Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE
Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) indicating cause of leak.

CASE TYPE
Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS
Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION
Indicate which actions have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
Containment Barrier - install vertical dike to block horizontal movement of contaminant.
Excavate and Dispose - remove contaminated soil and dispose in approved site.
Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
Remove Free Product - remove floating product from water table.
Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.
Replace Supply - provide alternative water supply to affected parties.
Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.
SIGNATURE - Sign the form in the space provided.
DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies in tact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. O. Box 100, Sacramento, CA 95801
3. Regional Water Quality Control Board
4. County Board of Supervisors or designee to receive Proposition 65 notifications.
5. Owner/responsible party.

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110
(619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

10 October 1990

Job No. 7885

ENVIRONMENTAL HEALTH SERVICES
Hazardous Materials Management Division
P.O. Box 85261
San Diego, California 92138-5261

Attention: Ms. Susan Pease

Subject: Unauthorized Release #T1399/H03452-001
Palomar College
1140 W. Mission Road
San Marcos, California

Dear Ms. Pease:

Pursuant to your request, United States Testing Company, Inc. (USTCo) collected additional soil samples and installed a monitoring well at the referenced project. The attached report summarizes our investigation and a copy of this report was sent to the Regional Water Quality Control Board (RWQCB).

If you have any questions regarding this report please contact our office at (619) 225-9641.

Respectfully submitted,

Bayani Y. Abueg
Project Engineer

Joseph L. Welch, RCE C040236
Geotechnical Department Manager

UNAUTHORIZED RELEASE #T1399/H03452-001
PALOMAR COLLEGE
1140 W. MISSION ROAD
SAN MARCOS, CALIFORNIA

SUBMITTED TO:

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CALIFORNIA 92138-5261

PREPARED BY:

UNITED STATES TESTING COMPANY, INC.
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110

JOB NO. 7885
10 OCTOBER 1990

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110 (619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

10 October 1990

Job No. 7885

ENVIRONMENTAL HEALTH SERVICES
Hazardous Materials Management Division
P.O. Box 85261
San Diego, California 92138-5261

Attention: Ms. Susan Pease

Subject: Unauthorized Release #T1399/H03452-001
Palomar College
1140 W. Mission Road
San Marcos, California

References: Site Assessment Report prepared by USTCo, dated 13 July 1990

Letter regarding monitoring well installation prepared by USTCo, dated 24 May 1990

Dear Ms. Pease:

Pursuant to your request, United States Testing Company, Inc. (USTCo) collected additional soil samples and installed a monitoring well at the referenced project. The purpose of our investigation was to collect soil samples in an area which previously revealed an elevated concentration of total petroleum hydrocarbons (TPH), obtain a groundwater sample, if attainable, and analyze the samples for the presence of possible contaminants.

If you have any questions regarding this report please contact our office at (619) 225-9641.

Respectfully submitted,

Bayani Y. Abueg
Project Engineer

Joseph L. Welch, RCE C040236
Geotechnical Department Manager

REGISTERED PROFESSIONAL ENGINEER
JOSEPH L. WELCH
No. C040236
Exp. 9-30-94
CIVIL
STATE OF CALIFORNIA

cc: Mr. James Munch, RWQCB
Mr. Bryant Guy, Palomar College

JOB NO. 7885

TABLE OF CONTENTS

ATTACHMENTS:

1.0 BACKGROUND INFORMATION

In May 1989, one 2000-gallon underground gasoline tank (Tank #1), one 1000-gallon underground gasoline tank, and one 500-gallon above ground tank were removed from the site. The approximate locations of the tanks are shown in Figure 1. Angus Asphalt collected a total of seven soil samples from the two excavated pits and fuel line trench at the time of removal. Angus Asphalt collected two samples from the north and south ends of the bottom of both excavated pits and three samples from the fuel line trench. A soil sample taken in the fuel line trench approximately 20 feet east of the warehouse wall revealed 796 mg/kg of TPH. The other six samples revealed TPH concentrations ranging from less than 0.5 mg/kg to 26 mg/kg. On 1 June 1989, Angus Asphalt collected two additional soil samples from the Tank #1 excavation. Both samples were taken from the southwest corner of the excavation at a depth of approximately 8.5 feet. The detected TPH concentrations were 18.3 mg/kg and 90.0 mg/kg.

On 22 June 1989, USTCo collected four soil samples from the fuel line trench and a grab sample of ponded water in the Tank #1 excavation. All four soil samples were taken at a depth ranging from 18 to 24 inches. The approximate sample locations are shown

in Figure 2. A strong hydrocarbon odor was observed in the trench backfill approximately 20 feet east of the Tank #1 excavation. The material from this area was removed from the trench and placed in two 55-gallon drums. Two soil samples (TR-1 and TR-2) were taken from the bottom of the trench to verify the absence or presence of hydrocarbons. A third sample (TR-4) was taken adjacent to the trench to determine the probability of lateral migration. A fourth sample was taken approximately 30 feet east of the Tank #1 excavation. The detected TPH concentrations for all four soil samples ranged from less than 0.5 parts per million (ppm) to 18.7 ppm. Since strong hydrocarbon odors were evident in the drummed material and the costs of analyzing the material for hydrocarbons were considerably greater than the costs to simply transport the material off-site, USTCo made arrangements to transport the material off-site to a licensed treatment facility under proper manifest. As you are aware, Palomar College previously sent a copy of the manifests to your office.

The grab sample of the ponded water was collected from the bottom of the Tank #1 excavation. The sample was taken at approximately 11 feet below the existing grade in the southeast corner of the pit. The sample was analyzed for TPH and benzene, toluene,

xylene, and ethylbenzene (BTXE). The reported TPH concentration was 81.2 ppm and BTXE concentrations were less than 0.5 ppm.

The excavated pits and fuel line trenches from the previously removed underground tanks were subsequently backfilled and paved with asphaltic concrete. At the time the ponded water was sampled, a possible perched water table condition was thought to exist. In order to determine if the groundwater was impacted, a 20-foot deep monitoring well was proposed just south of the tank excavation. HMMD also requested additional testing of the utility line location where the 796 mg/kg of TPH was previously reported. On 26 March 1990, USTCo attempted to install a monitoring well adjacent to the previous Tank #1 excavation utilizing a B-61 Drill Rig equipped with hollow stem augers. Due to refusal from very dense decomposed granite encountered at a depth ranging from 4.5 to 5 feet, USTCo was not able to install a monitoring well at the site. USTCo collected two soil samples at the contact (i.e. 4.5 to 5 feet below grade). The detected TPH concentrations were less than 0.5 mg/kg.

2.0 FIELD INVESTIGATION

On 27 September 1990 and 28 September 1990, USTCo obtained additional soil samples in an area which previously revealed 796 ppm of TPH and installed a monitoring well adjacent to the previous Tank #1 excavation. The approximate sample and boring locations are shown in Figure 3. A shallow boring located approximately 20 feet east of the warehouse wall was advanced to approximately 4 feet below grade. Soil samples were collected at a depth of 1 foot, 2.5 feet, and 4 feet. All of the samples were collected in sterile 8-ounce glass jars. Samples were labeled and stored in an ice chest chilled to approximately $4^{o}C$. The samples were then transported to QAL, a State Certified Laboratory, for chemical analyses.

USTCo advanced a second boring adjacent to the previous Tank #1 excavation utilizing tri-cone air rotary bits and an impact hammer. The boring was advanced to approximately 25 feet. Although no groundwater was encountered in this boring, USTCo converted the boring into a monitoring well. A construction diagram of the well is shown in Figure 4. USTCo inspected the monitoring well three days later on 1 October 1990 for the presence of water. No water was present in the well.

3.0 LABORATORY TEST RESULTS

All of the samples were collected in sterile 8-ounce glass jars. Samples were labeled and stored in an ice chest chilled to approximately $4^{o}C$. The samples were then transported to Quality Assurance Laboratory (QAL), a State Certified Laboratory, for chemical analyses.

Three soil samples were taken from Boring B-1 and analyzed for TPH using the Department of Health Services Modified Method 8015. Samples 1-A, 1-B, and 1-C were collected at a depth of 1 foot, 2.5 feet, and 4 feet, respectively. The detected TPH concentration for sample 1-A was 33.1 mg/kg and the detected TPH concentrations for samples 1-B and 1-C were less than 10 mg/kg.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The conclusions and recommendations of this report are primarily based on our previous and recent sampling program, field investigation, and laboratory analysis of the collected samples.

Angus Asphalt previously collected a soil sample from the fuel line trench approximately 20 feet east of the warehouse wall on 26 May 1989. The detected TPH concentration was 796 mg/kg. New lines were placed in the fuel line trench and the trench was subsequently backfilled and paved with asphaltic concrete. Per the request of HMMD, USTCo obtained additional soil samples on 28 September 1990 adjacent to the same area which previously yielded 796 mg/kg of TPH. The samples were taken from Boring B-1 approximately 20 feet east of the warehouse wall. Samples 1-A, 1-B, and 1-C were collected at a depth of 1 foot, 2.5 feet, and 4 feet, respectively. The detected TPH concentration for sample 1-A was 33.1 mg/kg and the detected TPH concentrations for samples 1-B and 1-C were less than 10 mg/kg.

On 22 June 1989, USTCo collected a grab sample of ponded water in the previously removed 2000-gallon underground tank (Tank #1) excavation. The sample was taken at approximately 11 feet below

the existing grade in the southeast corner of the pit. The reported TPH concentration was 81.2 ppm and BTXE concentrations were less than 0.5 ppm. The excavated pit was subsequently backfilled and paved with asphaltic concrete. On 28 September 1990, USTCo advanced a boring just south of the previous Tank #1 excavation utilizing tri-cone air rotary bits and an impact hammer. The boring was advanced to a depth of 25 feet. Although no groundwater was encountered in the boring, USTCo converted the boring into a monitoring well. USTCo inspected the well three days later on 1 October 1990 for the presence of water. No water was present in the well. Due to the absence of water in the well, groundwater is estimated to be in excess of 25 feet below grade. Thus, a perched water table was not the source of the water in the excavation. Information supplied by site personnel from Palomar College indicated that water was used to clean the asphalt pavement surface adjacent to the Tank #1 excavation during tank removal activities. Thus, the source of ponded water found in the excavated pit on 22 June 1989 was probably from surface runoff associated with cleaning the asphalt pavement.

Since all three soil samples taken adjacent to the same area which previously yielded 796 mg/kg of TPH did not reveal any significant TPH concentrations (i.e. less than 10 mg/kg to 33.1 mg/kg), we recommend no further soil characterization. In

addition, since the source of ponded water found in the excavated pit on 22 June 1989 was probably from surface runoff associated with cleaning the asphalt pavement and groundwater was not present in the 21-foot monitoring well installed adjacent to the excavation, it is our opinion that conducting further groundwater studies at this site is not necessary. Thus, we recommend no further action required at this site.

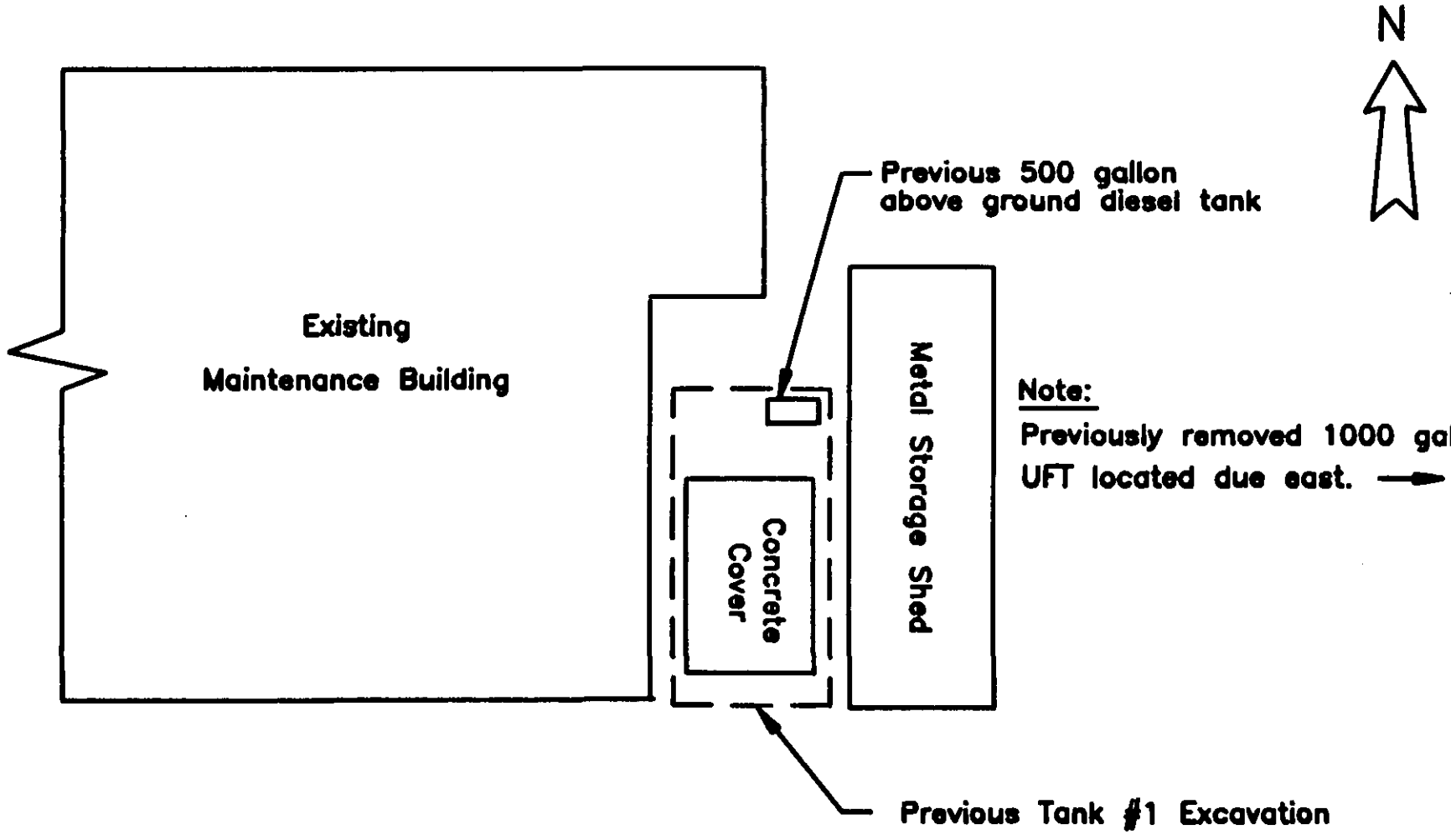


FIGURE 1 – SITE PLAN

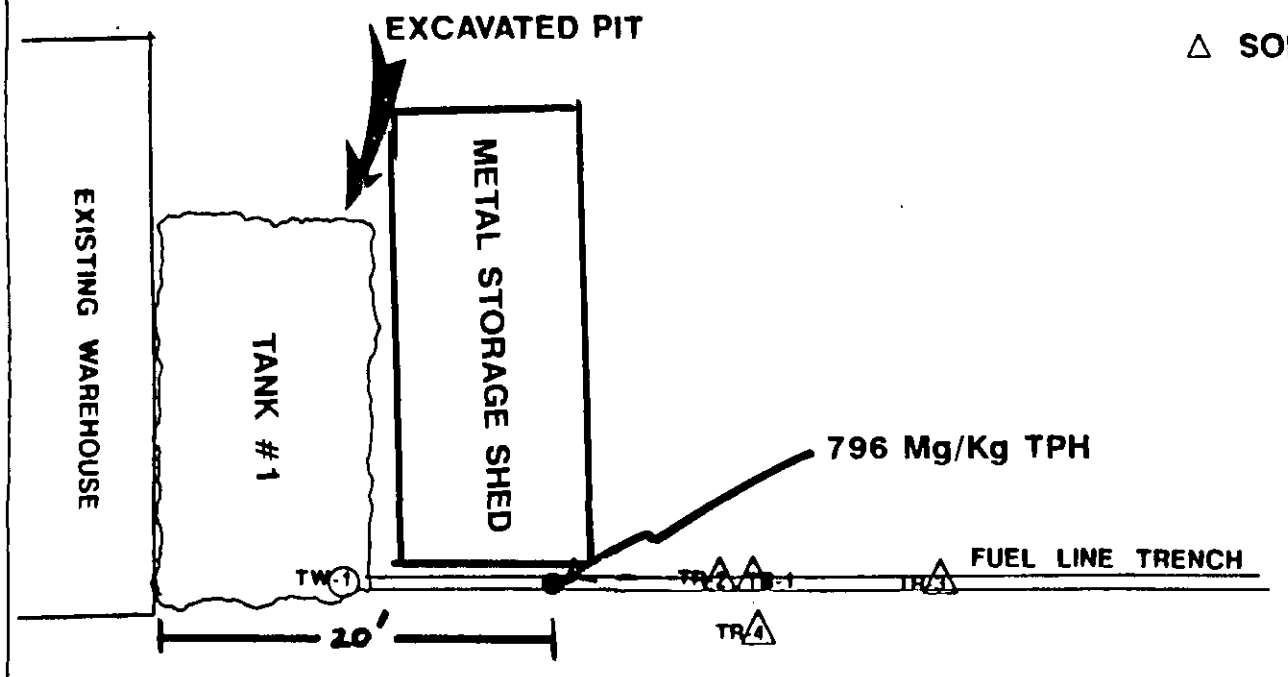
Approximate Scale: 1 inch = 10 feet

UNITED STATES TESTING COMPANY		
PROJECT: PALOMAR COLLEGE		
JOB NO. 7885	DATE: 10/8/90	FIG. 1

MAP VIEW SAMPLE LOCATIONS

○ WATER SAMPLES

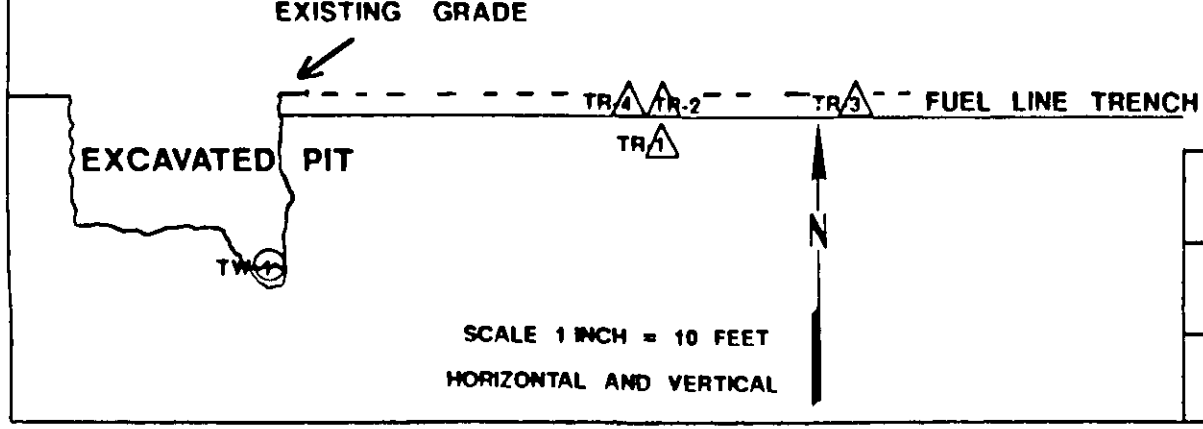
△ SOIL SAMPLES



CROSS SECTION OF SAMPLE LOCATIONS

○ WATER SAMPLES

△ SOIL SAMPLES



UNITED STATES TESTING COMPANY INC.		
PROJECT: PALOMAR COLLEGE		
JOB NO. 7885	DATE: 10/8/90	FIG. 2

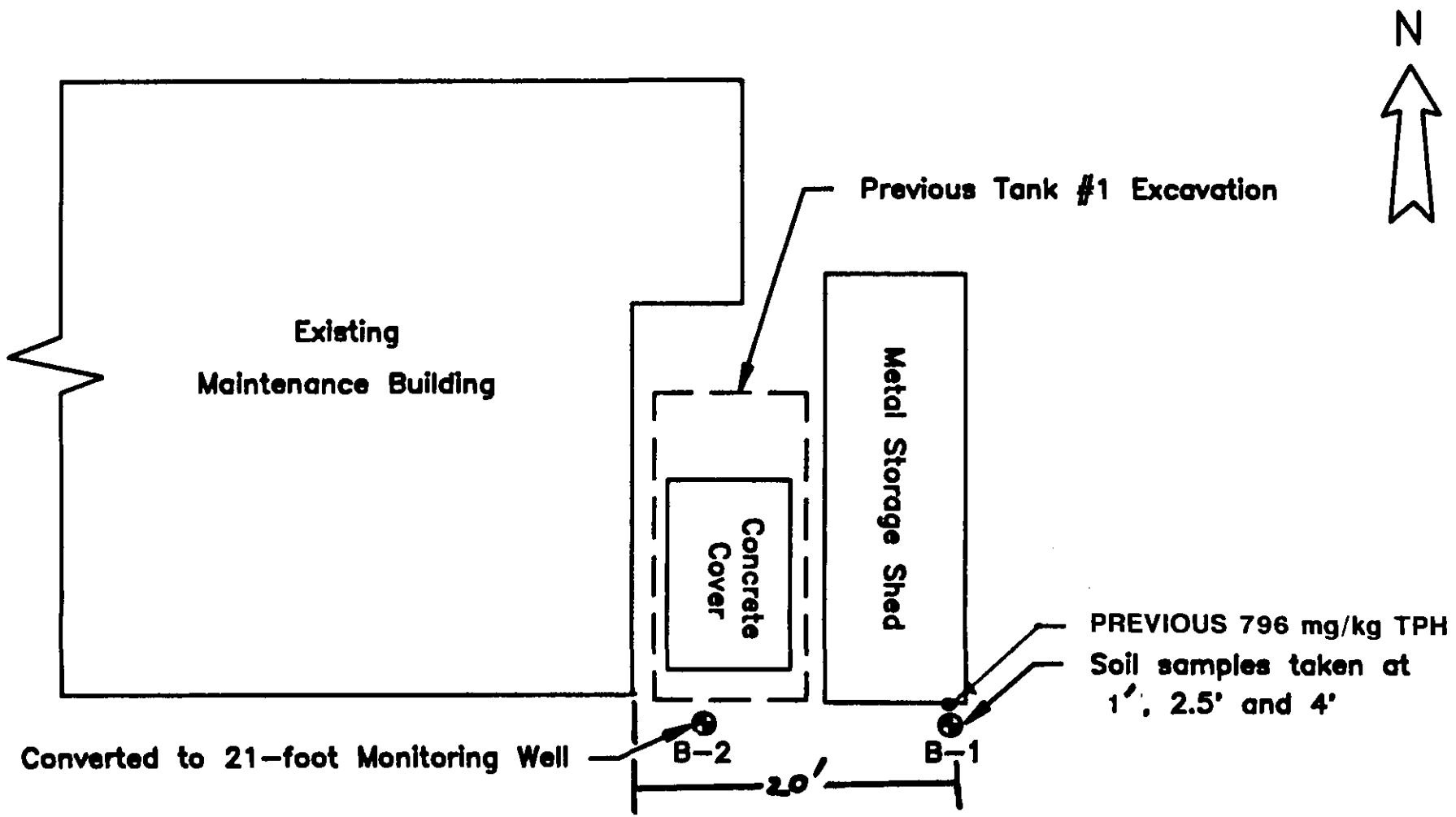


FIGURE 3 – SAMPLE AND BORING LOCATIONS

KEY:

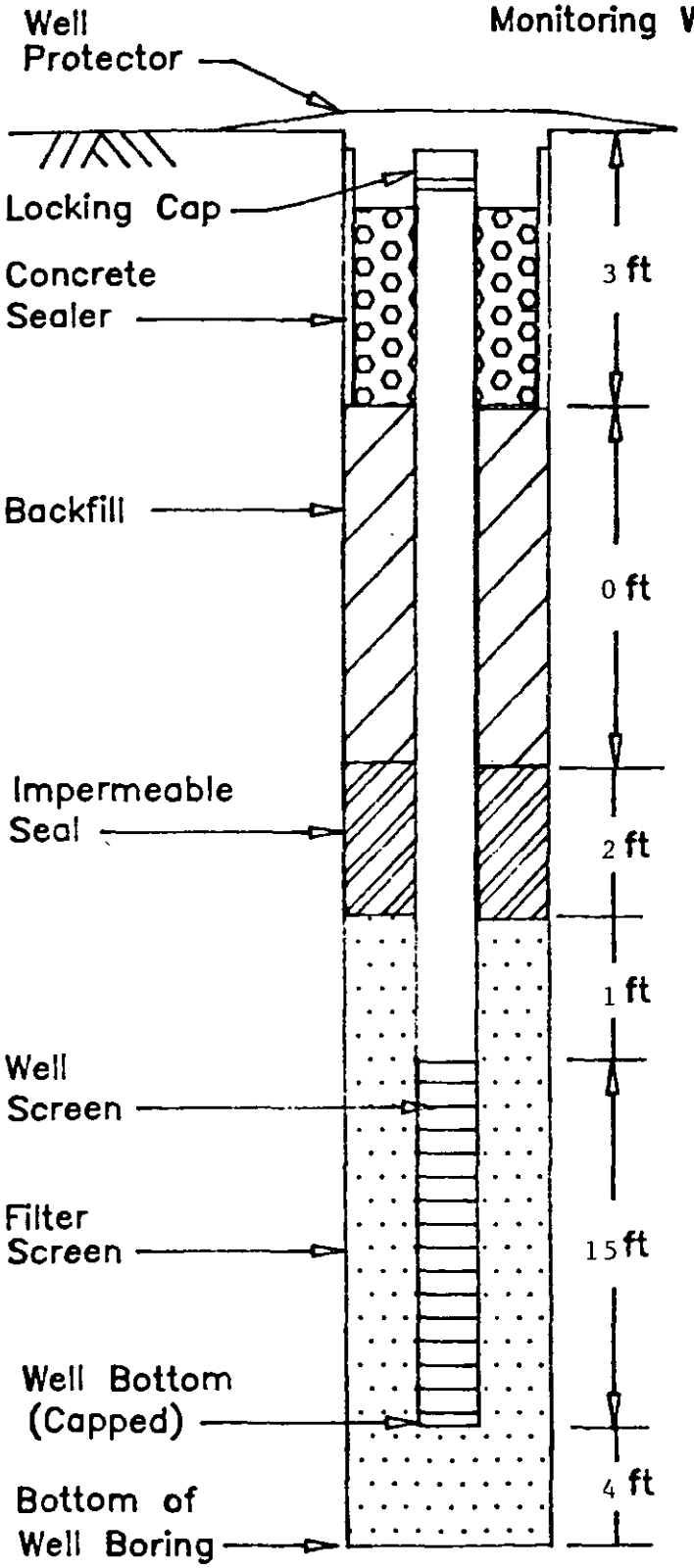
Approximate Scale: 1 inch = 10 feet

⊕ = Approximate Boring Location

UNITED STATES TESTING COMPANY		
PROJECT: PALOMAR COLLEGE		
JOB NO. 7885	DATE: 10/8/90	FIG. 3

MONITORING WELL CONSTRUCTION DIAGRAM

Monitoring Well No. 1



Construction Log Data:

Surface Seal Material: Concrete

Backfill Material: None

Impermeable Seal Material: Bentonite

Filter Pack Material: No. 3 Monterey Sand

Well Casing Material: PVC

Well Screen Slot Size: .020 in

Well Casing I.D.: 4 in

Well Boring Depth: 25 ft

Well Depth: 21 ft

Water Depth From Top of Well Protector: No Water Present

Remarks:

UNITED STATES TESTING CO.		
PROJECT: PALOMAR COLLEGE		
JOB NO. 7885	DATE: 9/28/90	FIG. 4

APPENDIX A

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

U.S. TESTING CO.
ATTN: BAYANI ABUEG
3467 KURTZ ST.
SAN DIEGO, CA 92110

DATE OF REPORT	OCTOBER 5, 1990
DATE RECEIVED	SEPTEMBER 28, 1990
DATE OF SAMPLE	SEPTEMBER 28, 1990
DATE COMPLETED	OCTOBER 4, 1990
ANALYZED BY	VJ
SAMPLE TYPE	3 SOIL
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	#7885

ANALYSES RESULTS

		ANALYSIS:	TPH
		METHOD:	DHS*
LOG NUMBER	SAMPLE ID	UNITS:	MG/KG
14472-90	1-A		33.1
14473-90	1-B		<10.0
14474-90	1-C		<10.0

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

TOTAL PETROLEUM HYDROCARBON ANALYSES RESULTING IN HYDROCARBONS OF THE RANGE C10 - C23

PETER SHEN
LABORATORY DIRECTOR

PS/at

QUALITY ASSURANCE LABORATORY
QUALITY CONTROL DATA REPORT

QUALITY CONTROL DATA REPORT
OCTOBER 5, 1990

U.S. TESTING CO.
LOG #14472-90 THROUGH #14474-90

ANALYSES	METHOD	CCCV %RECOVERY	SPIKE %RECOVERY	DUPLICATE RPD
TPH	DHS	98%	93%	1%

LISA MACCLELLAN
QA/QC DIRECTOR

QUALITY CONTROL TERMINOLOGY

*CCCV-CONTINUING CALIBRATION CURVE VERIFICATION. REPORTED AS % RECOVERY OF AN INDEPENDENT STANDARD TO VERIFY LINEARITY OF THE OPERATING STANDARD CURVE. ACCEPTABLE RANGE IS 80%-120% RECOVERY.
*SPIKE-ENVIRONMENTAL SAMPLE IS MATRIX SPIKED WITH METHOD COMPOUNDS AND % RECOVERY OF CONCENTRATION SPIKED INTO SAMPLE IS CALCULATED. REPORTED AS % RECOVERY. ACCEPTABLE RANGE FOR "NORMAL MATRIX SAMPLES" IS 75%-125% RECOVERY.
*SURROGATES-COMPOUNDS REPRESENTATIVE OF A GROUP OF COMPOUNDS. SURROGATES ARE SPIKED INTO ENVIRONMENTAL SAMPLES AND % RECOVERY OF CONCENTRATION SPIKED IS CALCULATED AND REPORTED. ACCEPTABLE RANGE VARIES DEPENDING UPON SAMPLE MATRIX AND ANALYSES METHOD.

FOR A MORE DETAILED EXPLANATION OF QC DATA, PLEASE REFER TO QUALITY ASSURANCE LABORATORY'S "QUALITY ASSURANCE PLAN" OR "UNDERSTANDING YOUR QUALITY CONTROL DATA". BOTH PUBLICATIONS ARE AVAILABLE FROM QAL.

Quality Assurance Laboratory
6555 Nancy Ridge Drive, Suite 300
San Diego, CA 92121 (619) 566-1060

CHAIN OF CUSTODY

Date: 7/26/96 Page 1 of 1

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: U.S. TECH	PROJECT NAME/NUMBER:
PROJECT MANAGER:	**BILLING INFORMATION**
ADDRESS:	BILL TO:
	ADDRESS:
PHONE:	PHONE: PO #:

QA LOG #	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS REQUEST
14112-10	1-A	7/26/96		SOIL	BRASS TUBE	1	X
11403	1-B	"		SOIL	"	1	X
11404	1-C	"		SOIL	"	1	X

SAMPLE INTEGRITY

	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
HOLDING TIME		✓																	
CORRECT CONTAINER		8/N																	

1. RELINQUISHED BY:	DATE:	2. RELINQUISHED BY:	DATE:	3. RELINQUISHED BY:	DATE:
SIGNATURE:	7/26/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME:	TIME:	PRINTED NAME:	TIME:	PRINTED NAME:	TIME:
COMPANY: U.S. TECH	15:00	COMPANY:		COMPANY:	
1. RECEIVED BY:	DATE:	**2. RECEIVED BY:**	DATE:	**3. RECEIVED BY:**	DATE:
SIGNATURE:	7/26/96	SIGNATURE:		SIGNATURE:	
PRINTED NAME:	TIME:	PRINTED NAME:	TIME:	PRINTED NAME:	TIME:
COMPANY: STL Labs	15:00	COMPANY:		COMPANY:	

SAMPLE RECEIPT	
RECEIVED ON ICE	(YES) / NO
TAPE SEAL INTACT	YES / NO / NA
PRESERVATIVE	YES / (NO)
PRECAUTIONS:	

SPECIAL INSTRUCTIONS

TAT REQUESTED: Normal

— ALL SAMPLES ARE SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE —

APPENDIX B

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF REPORT	JUNE 1, 1989
DATE RECEIVED	MAY 26, 1989
DATE OF SAMPLE	MAY 26, 1989
DATE COMPLETED	JUNE 1, 1989
ANALYZED BY	MS MH
SAMPLE TYPE	7 SOIL

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6307-89	1-NORTH	NORTH END - 9'4"	26
6308-89	1-SOUTH	SOUTH END - 7'4"	<0.5
6309-89	2-NORTH	9' BG	<0.5
6310-89	2-SOUTH	9' BG	<0.5
6311-89	PRODUCT LINE 1	20' FROM TANK 1	796
6312-89	PRODUCT LINE 2	40' FROM TANK 1	<0.5
6313-89	PRODUCT LINE 3	60' FROM TANK 1	<0.5

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

Peter Shen DW
PETER SHEN
LABORATORY DIRECTOR

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

ANGUS ASPHALT, INC.
ATTN: FRANK LAITNER
PO BOX 711539
SANTEE, CA 92072-1539

DATE OF REPORT	JUNE 5, 1989
DATE RECEIVED	JUNE 1, 1989
DATE OF SAMPLE	JUNE 1, 1989
DATE COMPLETED	JUNE 2, 1989
ANALYZED BY	MS
SAMPLE TYPE	2 SOIL
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	169

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	LOCATION	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
6597-89	1	SOUTH END	90.0
6598-89	2	SOUTHWEST	18.3

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

TESTING ENGINEERS
ATTN: SHAWN WILLIAMS
3467 KURTZ STREET
SAN DIEGO, CA 92110

REVISED REPORT	JULY 31, 1989
DATE OF REPORT	JUNE 28, 1989
DATE RECEIVED	JUNE 22, 1989
DATE OF SAMPLE	JUNE 22, 1989
DATE COMPLETED	JUNE 28, 1989
ANALYZED BY	DB MH
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	JOB #7673

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID\LOCATION\TYPE			ANALYSIS: TPH METHOD: DHS** UNITS: PPM	BENZENE EPA 8020 PPM	TOLUENE EPA 8020 PPM	XYLENE EPA 8020 PPM	ETHYLBENZENE EPA 8020 PPM
7608-89	TR-1	TRENCH	SOIL	<0.5/<0.5*				
7609-89	TR-2	(BARREL) TRENCH	SOIL	18.7				
7610-89	TR-3	EAST	SOIL	<0.5				
7611-89	TR-4	DOWNGRADIENT	SOIL	<0.5				
7612-89	TW-1		WATER	81.2***	<0.5	<0.5	<0.5	<0.5
CCCV				94%	93%	90%	96%	90%
SPIKE RECOVERY				97%	83%	88%	94%	88%
DUPLICATE PRD				ND/ND	ND/ND	ND/ND	0%	ND/ND

* DUPLICATE ANALYSIS

TPH - TOTAL PETROLEUM HYDROCARBONS

** RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

***APPROXIMATE CARBON RANGE: C16 - C32

PETER SHEN
LABORATORY DIRECTOR

PS/at

PALOMAR COLLEGE
Founded 1946
Educational Excellence

Dr. George R. Boggs
Superintendent/President

August 10, 1990

Hazardous Materials Management Division
P.O. Box 85261
San Diego, CA 92138-5261

Attention: Susan Pease

Sue,

I received your letter of August 3, 1990 and I must apologize for not keeping you informed of the status of our unauthorized release #T1399/HO3452-001.

I have been very unhappy with the work and response provided us by U.S. Testing Inc. I've requested our Director of Contracts to terminate our contract with this company and hire a company that can provide the monitering well and testing that you require. I will advise you on which company we hire, so we can close out this project as soon as possible.

Thank you for your patience,

Michael D Ellis

Michael D. Ellis
Director of Buildings & Grounds
Palomar College

ME:jh

1140 West Mission Road
San Marcos, CA 92069-1487
619/744-1150 or 619/727-7529

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110
(619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

HMMU

MAY 30 9 58 AM '90

Still need to do sample below former 79 ppm

May 24, 1990

Job No. 7885

Palomar College
1140 West Mission Road
San Marcos, CA 92069

Attention: Mr. Bryant Guy

Subject: Installation of Monitoring Well
Southeast Corner of Maintenance
Building, Palomar College at San
Marcos, HMMD File # H03452-T1399

Dear Mr. Guy:

As we proposed in our Proposal Number 90-055, dated February 22, 1990, on March 26, 1990 United States Testing Company, Inc. tried to install a monitoring well at the subject site. The proposed 20 feet monitoring well drilling was stopped initially at 4 feet due to very hard meta-volcanic layer being encountered. The location of the boring was moved twice, 2 and 4 feet south of boring No.1 (please refer to Figure #1). Meta-volcanic rock was encountered again at 4.5 ft. and 5 ft. below grade respectively. Soil samples were taken from B-1 and B-3 at the contact and was sent to a local laboratory to determine its Total Petroleum Hydrocarbon (TPH). No groundwater was encountered at the time of our investigation to the depth explored.

According to the geologic map of north-central coastal area of San Diego County, the site is underlain by meta-volcanic rocks; salicified pophyritic rocks west of Cerro de la Calavera and in the eastern part of San Marcos. Mostly very hard and resistant to erosion, difficult to excavate.

According to the laboratory results, TPH concentration in soil samples was less than 0.5 and 5 PPM (or mg/kg) for B-1 and B-3 at the contact respectively (laboratory results are attached). Based on our investigation and results of laboratory tests, the spill of fuel during tank removal was minor and local. Due to the existence of meta-volcanic rock at approximately 4.5 feet, and the fact that the old tank excavation required blasting, the installation of a monitoring well with the auger boring equipment normally used

is not practical. We contacted Susan Pease and Jim Munch about the drilling difficulties. Ms. Pease indicated Mr. Munch had made the decision to require the well. We contacted Mr. Munch, who suggested we take the samples referred to above and have them tested and report the results.

Based on the laboratory data, the concentration are less than detection limits. Thus soil contamination appears to be minimal. Groundwater which we believed was a perched condition, was observed at eleven feet in the open excavation. We do not believe the data justifies the installation of a monitoring well. An air drill could be used to install a well if required. We would request that Mr. Munch reconsider his requirement for a well based on the latest information.

We appreciate the opportunity to be of service to you on this project. If you have any questions, please do not hesitate to contact our office.

Respectfully submitted,

Mehdi Siavoshani
Project Engineer

Reviewed by,

Joseph L. Welch RCE C040236
Geotechnical Department Manager

cc: Jim Munch, RWQCB
Susan Pease, HMMD
File ref.(7885.MS)/gj

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

US TESTING CO., INC.
ATTN: MEHDI SIAVOSHANI
3467 KURTZ ST.
SAN DIEGO, CA 92110

DATE OF REPORT	APRIL 6, 1990
DATE RECEIVED	MARCH 28, 1990
DATE OF SAMPLE	MARCH 26, 1990
DATE COMPLETED	APRIL 4, 1990
ANALYZED BY	VJ MH
SAMPLE TYPE	2 SOIL
SAMPLE LOCATION	MAINTENANCE BUILDING PIT
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	7885

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	ANALYSIS: TPH METHOD: DHS* UNITS: MG/KG
4804-90	B-1 @ 4: 1/2	<0.5
4805-90	B-3 @ 5: 1/2	<5.0/<5.0**
CCCV		97%
DUPLICATE RPD		0%

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

** DUPLICATE ANALYSIS

PETER SHEN
LABORATORY DIRECTOR

PS/at

UNITED STATES TESTING-ENGINEER SUPPORT SERVICES

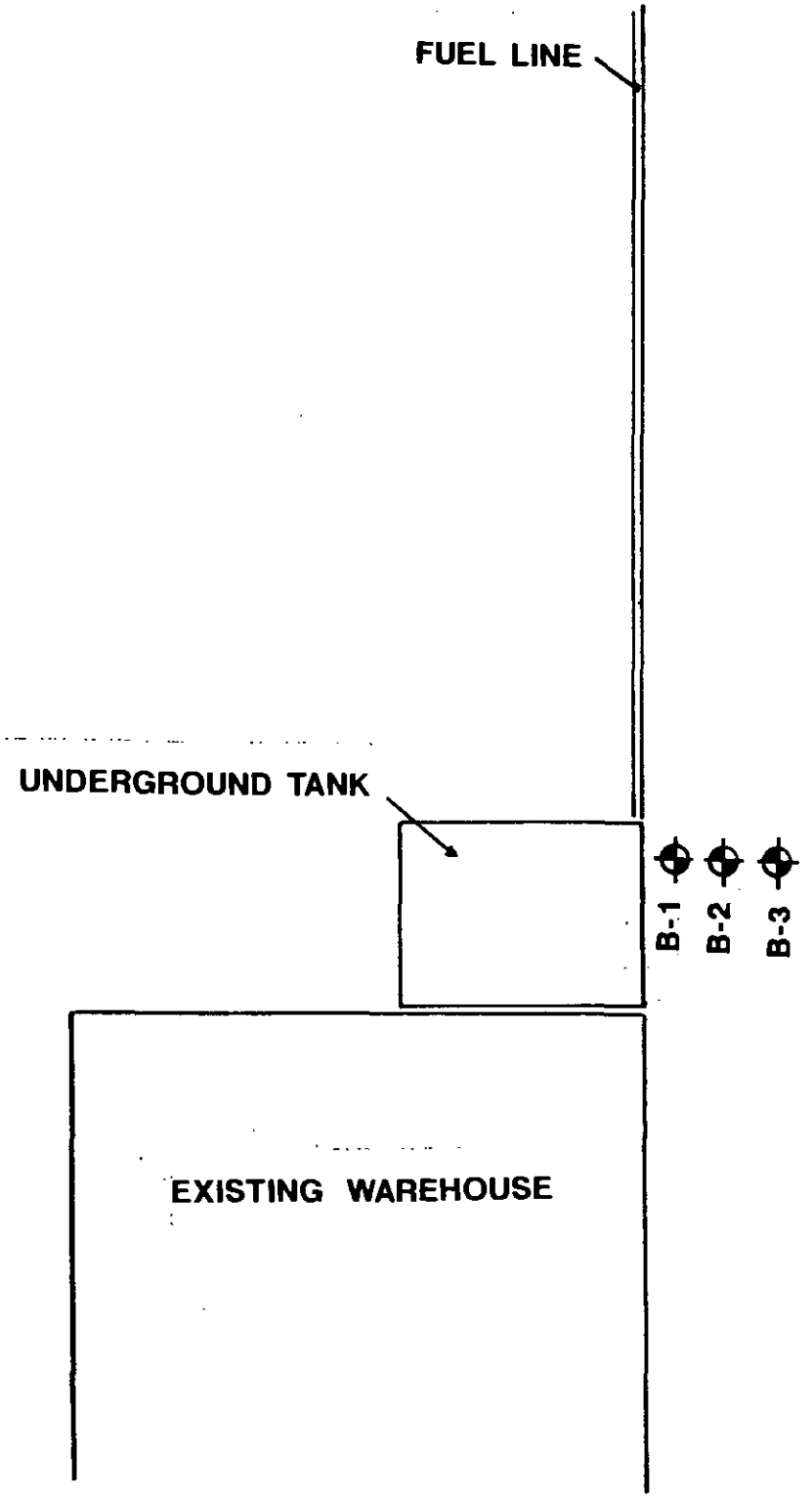
Job No: 7885

BORING LOG

Project: Palomar College Date: 3-26-90 Boring No: 1, 2, 3
Type of Rig: B-61 Hole Diameter: 8 inches Elevation: 640 ft.
Hammer Weight & Fall: _____ Ground Water: _____ Logged By: M.S.

DEPTH (FT)	SYMBOL	FIELD DESCRIPTION	BLOWS/FT	SAMPLE	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	-200 (%)
		B-1 0-3" Asphaltic concrete 3" 9" Class II Base 9"-4' Reddish brown, medium sandy silt, moist, moderately dense. @ 4' Refusal due to altered meta-volcanic rock.					
		B-2 Same as B-1 Refusal at 4.5 ft. Decrease in moisture with depth.					
		B-3 Same as B-1 Refusal @ 5 feet. Decrease in moisture with depth.					

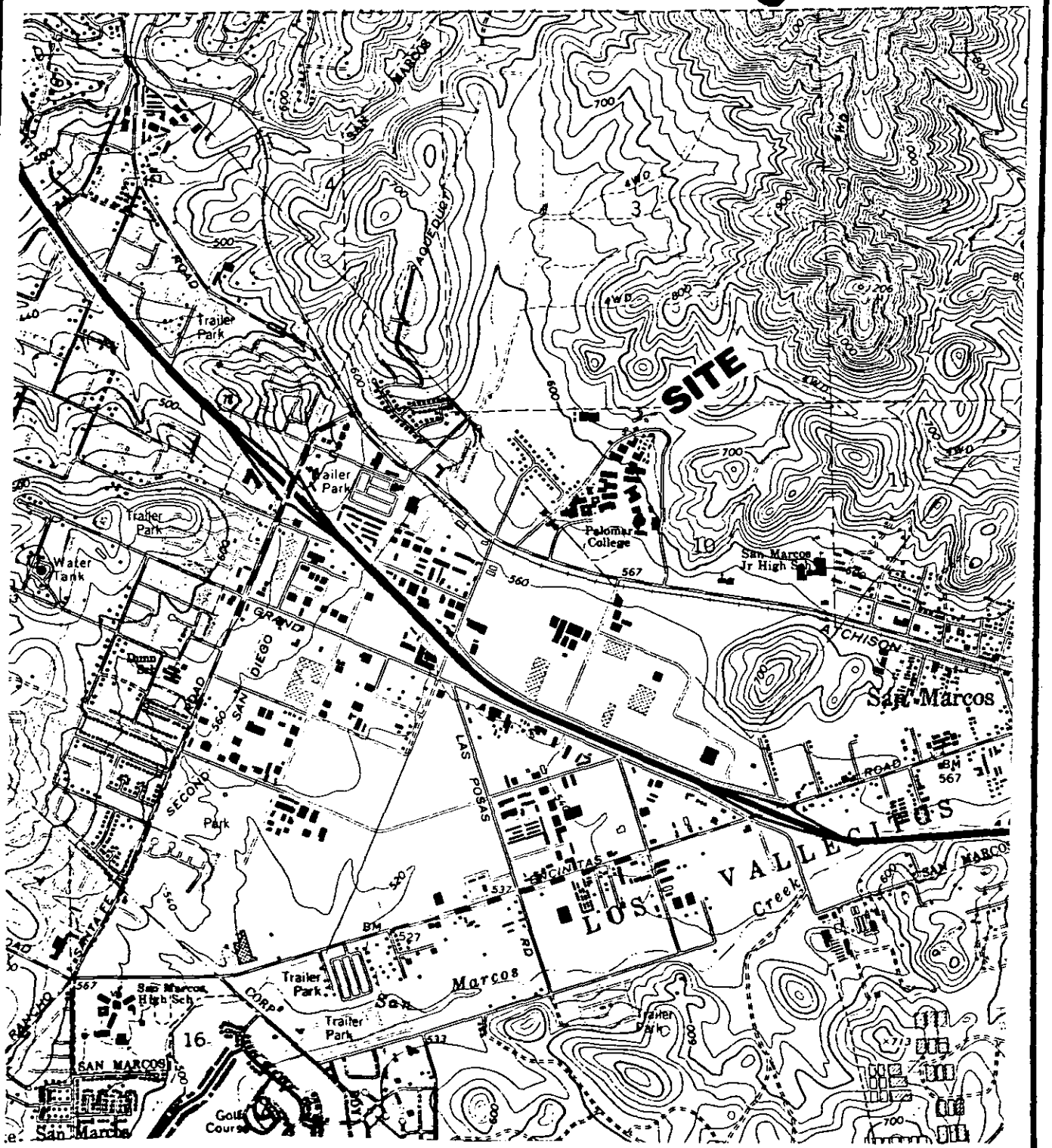
PLATE 1



UNITED STATES TESTING COMPANY INC.

PALOMAR COLLEGE

JOB NO.	DATE:	
7885	3-26-90	FIG. 1



SCALE 1 = 24000

UNITED STATES TESTING COMPANY INC.		
SITE TOPOGRAPHY MAP		
JOB NO. 7885	DATE: APRIL 1990	FIG. 2

PALOMAR·COLLEGE
Founded 1946
Educational Excellence

Dr. George R. Boggs
Superintendent/President

February 8, 1990

Susan Pease
Environmental Health Services
Hazardous Materials Management Division
P.O. Box 85261
San Diego, CA 92138-5261

RE: Unauthorized Release T 1399/HO3452-001
1140 W. Mission Road, San Marcos, CA 92069

Ms. Pease:

I'm very sorry to have caused you so much trouble. As you know, Palomar College contracted with Testing Engineers to perform the necessary site assessment and file the necessary paperwork with your office. They have not fulfilled this contract, so I will respond to your request as required by law.

As of this date, the old tanks (2) have been removed and disposed of. The new 2,000 gallon tank was installed and is now in operation per ACPD Start-up Authorization (attached). The two drums of contaminated soil were picked up and disposed of. (See attached Uniform Hazardous Waste Manifest.)

At this time, we still have to install one monitoring well. I will contract this work out, as well as hiring an environmental consultant to determine the best location for the well to be installed.

I hope to have this wrapped up by the end of February 1990.

Thank you for your patience with us, in this matter.

Sincerely,

Michael D Ellis

Michael D. Ellis

ME:jh

1140 West Mission Road
San Marcos, CA 92069-1487
619/744-1150 or 619/727-7529

State of California Health and Welfare Agency
Form Approved OMB No. 2050-0039 (Expires 9
Please print or type. (Form designed for use on [redacted] pitch typewriter).

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CA D 9 8 1 5 3 0 5 7	0 0 0 1		

3. Generator's Name and Mailing Address
PALOMAR COLLEGE
1100 W. MISSION, SAN MARCOS, CA

4. Generator's Phone ( )

A. State Manifest Document Number: 88614417
B. State Generator's ID: HAH 03 6 0 0 0 1 5 0
C. State Transporter's ID: 6656-30
D. Transporter's Phone: 213/494-1788
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: 805/937-8449

5. Transporter 1 Company Name: R.C. BAXTER JR., INC.
6. US EPA ID Number: C A D 0 9 8 2 0 4 1 1 8 8
7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
CASMALIA RESOURCES
P O BOX E, NTU ROAD
CASMALIA, CA 93429
10. US EPA ID Number: C A D 0 1 2 0 7 4 8 1 1 2 5

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. CALIFORNIA REGULATED WASTE ONLY (CONTAMINATED SOIL)	0 0 2	D M		P	State 611 / EPA/Other CA ONLY
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL 99.0%
DIESEL 1.0%

K. Handling Codes for Wastes Listed Above
a. 03
b.
c.
d.

15. Special Handling Instructions and Additional Information
USE ONLY APPROVED APPROPRIATE PROTECTIVE CLOTHING

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR

Printed/Typed Name	Signature	Month	Day	Year
D.M. RYAN		1	10	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
R. C. BAXTER		1	10	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER (800-424-8802) WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/88)
EPA 8700—22
(Rev. 9-88) Previous editions are obsolete

Do Not Write Below This Line

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95812-0400

G-1571A
Sector/ID

SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT
9150 Chesapeake Drive
San Diego, CA 92123

880841
Application Number

650A
(BEC)

STARTUP AUTHORIZATION

Dec. 28, 1989
Date of Issuance

Palomar College
(NAME AND ADDRESS OF OPERATOR OR OWNER)
1140 W. Mission Rd, San Marcos, CA 92069

may operate a gasoline storage and dispensing facility consisting of One u/g tank(●)
(DESCRIPTION OF FACILITY OR EQUIPMENT)

with One nozzle(●) and OPW System A Type 5 vapor control

located at 1140 W. Mission Rd., San Marcos, CA 92069
(ADDRESS)

until June 27, 1990 pursuant to Rule 21 of the Rules and Regulations of the Air Pollution Control District, subject to the following conditions:

1. A copy of this authorization shall be posted on or near the equipment for which operation is authorized.
☐ The undersigned APCD representative shall be notified as soon as the equipment is fully operational.
2. Permittee shall not dispense more than 2,000 gallons of gasoline into motor vehicle fuel tanks during any calendar month.
3. Permittee shall be responsible for making certain that fill pipe and drybreak caps are securely replaced following each bulk delivery.

Operation is authorized only for the purpose of:
☐ Shaking down, testing and evaluating the equipment named above.
☒ For the purpose of allowing operation until an APCD Permit to Operate has been issued.

THIS IS NOT AN AUTHORIZATION TO EXCEED ANY APPLICABLE EMISSION STANDARD. THIS AUTHORIZATION IS SUBJECT TO CANCELLATION IF ANY EMISSION STANDARD OR CONDITION IS VIOLATED. IF THERE ARE ANY QUESTIONS ABOUT THIS AUTHORIZATION, PLEASE CONTACT THE UNDERSIGNED AT [redacted] 694-3321

Signed: W. J. Geudtner, Jr.

Print Name: W. J. Geudtner, Jr.

for R. J. SOMMERVILLE, Air Pollution Control Officer

WHITE – Operator
YELLOW – Engineering
PINK – Enforcement

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110
(619) 225-9641
FAX (619) 224-8950

FEB 8 12 49 PM '90

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

February 1, 1990

Job No. 7673

ENVIRONMENTAL HEALTH SERVICES
Hazardous Materials Management Division
P.O. Box 85261
San Diego, California 92138-5261

Attention: Ms. Susan Pease

Subject: Unauthorized Release #T1399/HO3452-001
1140 West Mission Road
San Marcos, California

Dear Ms. Pease:

This letter is being sent as an update to the October 11, 1989 letter we sent on the progress of the activities at the site. There has been no on site activities concerning the unauthorized release since the barrels were removed on October 10, 1989.

A) The following actions are planned to resolve the situation:

1) Palomar College will mail you the manifest for the barrel removal.

2) USTCo will submit a formal proposal to Palomar College to install a monitoring well and additional soil sampling.

3) Palomar College will obtain funding and authorize USTCo to install the well and additional soil sampling.

4) USTCo will then proceed with the well installation, sampling, and report.

B) The following assumptions have been made concerning the proposed well installation and additional soil sampling.

1) The proposed single monitoring well installation is acceptable to HMMD.

2) If the results are non detectable or below action limits for water and soil, water samples are non detectable or below action limits at 2 subsequent quarterly tests, USTCo will recommend closure status be granted.

3) HMMD would consider the above favorable results sufficient to grant closure status.

C) The following information is needed from HMMD.

1) We have proposed a monitoring well location shown on the attached Figure 4. We understand you have a specific location where you believe the well should be located. Our well was intended to be located 10 feet south of the pit, be 20 feet deep and slotted in the lower 10 feet. We would appreciate your comments on location, depth, and slotting.

2) We understand you have requested an additional soil sample from the trench. I have attached Figure 3 so that you can indicate the approximate location. If you could indicate on the sketch where the sample should be obtained we can arrange to have it taken care of.

The above information is the situation as I currently understand it and explains how Palomar College and USTCo plan on proceeding based on HMMD's concurrence. As telephone conversations have been held between Palomar and USTCo, between USTCo and HMMD, and between Palomar and HMMD one intention of this letter is to confirm that both HMMD and Palomar have had their intentions correctly stated.

Palomar College and USTCo will resolve between themselves who is responsible for sending future 30 day update letters to HMMD.

Very truly yours,

Joseph L. Welch, RCE C040236
Geotechnical Department Manager

JLW/kk

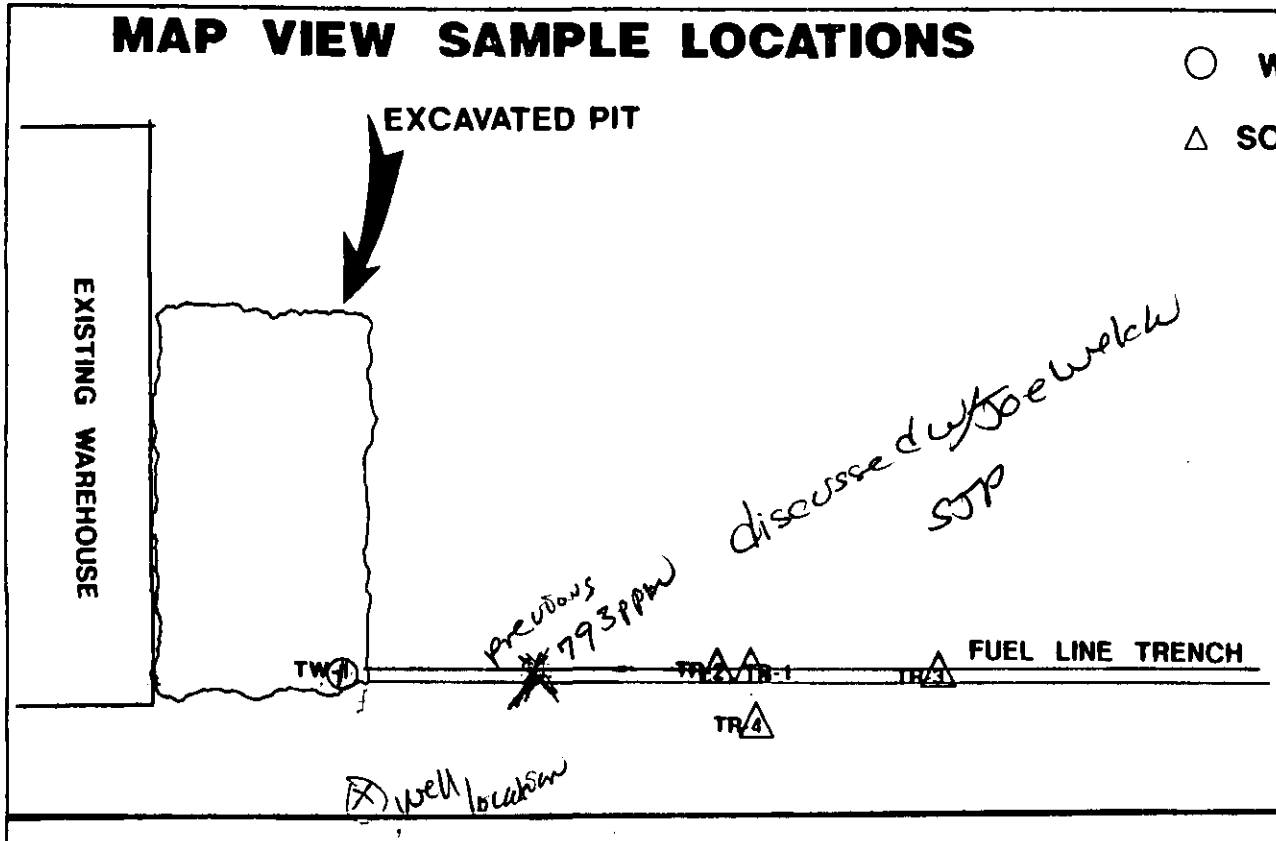
cc: File Ref: (7673.jlw)

enclosure

MAP VIEW SAMPLE LOCATIONS

○ WATER SAMPLES

△ SOIL SAMPLES



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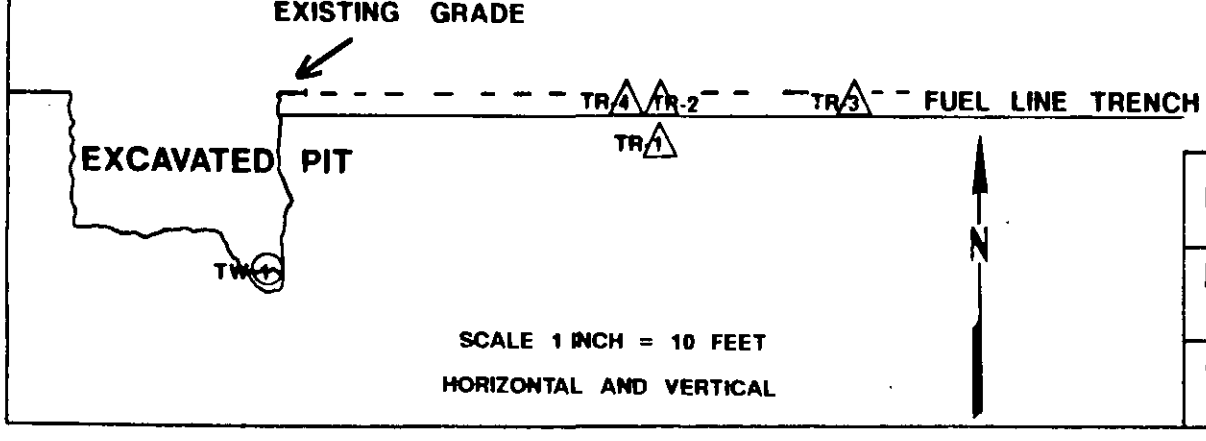
SCALE 1 INCH = 10 FEET

CROSS SECTION OF SAMPLE LOCATIONS

○ WATER SAMPLES

△ SOIL SAMPLES



SCALE 1 INCH = 10 FEET

HORIZONTAL AND VERTICAL

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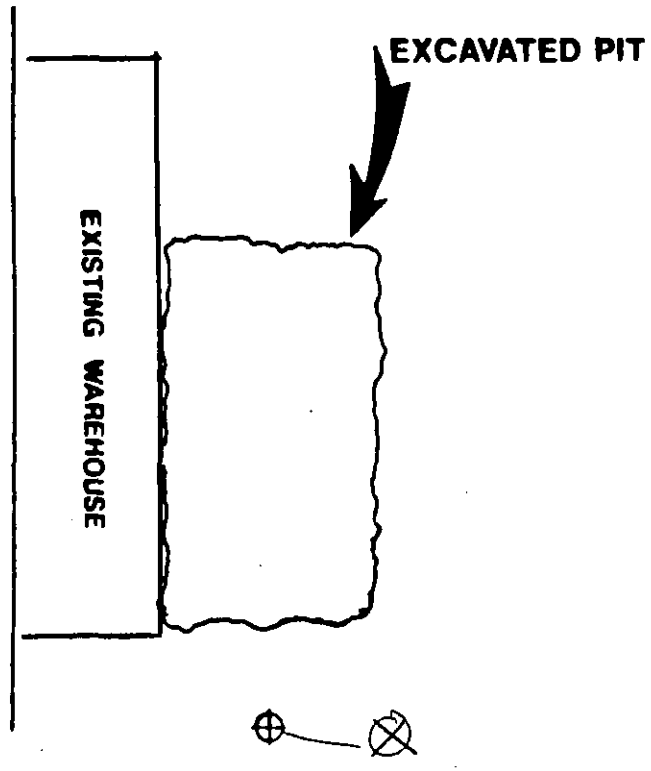
UNITED STATES TESTING COMPANY INC.

PROJECT: **PALOMAR COLLEGE**

JOB NO.	DATE:	
7673	**7-5-89**	**FIGURE 3**



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SCALE 1 INCH = 10 FEET

PROPOSED MONITORING WELL LOCATION ⊕

UNITED STATES TESTING COMPANY INC.		
PROJECT: **PALOMAR COLLEGE**		
JOB NO. **7673**	DATE: **7-13-89**	**FIGURE 4**

Tyfile

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P.O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2211
Fax #: 338-2174

April 2, 1991

Mr. Michael Ellis
Palomar College
1140 West Mission Road
San Marcos, CA 92069

Dear Mr. Ellis:

RE: UNAUTHORIZED RELEASE #T1399/H03452-001
1140 WEST MISSION ROAD, SAN MARCOS, CA 92069

The site remediation information submitted to this agency by U. S. Testing Company, Inc. summarizing the site characterization and mitigation activities at the above referenced location has been reviewed. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This information has also been discussed with staff of the Regional Water Quality Control Board (RWQCB). Based on the information submitted and current requirements, the RWQCB concurs with the determination of this agency that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

Thank you for your efforts in resolving this matter. Please contact the Hazardous Materials Management Division, Kathleen D. Wahlberg, at (619) 338-2539, if you require additional assistance.

Sincerely,

GARY R. STEPHANY, Deputy Director
Environmental Health Services

GRS:cmc

cc: James Munch-RWQCB

WP\T1399

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P.O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2211
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222

February 13, 1991

Mr. Michael Ellis
Palomar College
1140 West Mission Road
San Marcos, CA 92069

Dear Mr. Ellis:

RE: UNAUTHORIZED RELEASE #T1399/H03452-001
1140 WEST MISSION ROAD, SAN MARCOS, CA 92069

The site remediation information submitted to this agency by U.S. Testing Company, Inc. summarizing the site characterization and mitigation activities at the above referenced site has been reviewed by this Department and the Regional Water Quality Control Board (RWQCB).

Based on this information, this Department and the RWQCB will require no further investigation at the above-referenced site. However, before the unauthorized release file can be closed, you must address the future use of the monitoring well at the site.

In order to protect ground water, the well must be either maintained in accordance with San Diego County Code Section 67.401 and 67.402, or destroyed in accordance with San Diego County Code Section 67.440. Well maintenance requires submission of an annual written report. This report should include a description of the well use during the monitoring period (at a minimum, water level measurements must be made on a quarterly basis), the maintenance performed, and the proposed uses for the next annual monitoring period. Well destruction must be performed under permit from this Department and in accordance with current standards, addressed in the State of California, Department of Water Resources Bulletin 74-90 (Supplement to Bulletin 74-81), Water Well Standards, dated January 1990.

Please provide a description to this Department of what you plan to do with the monitoring well. Once this description is received and

is satisfactory, initiation of site file closure can begin. The efforts you have made thus far to resolve this issue are very much appreciated.

Sincerely,

Kathleen D. Wahlberg

KATHLEEN D. WAHLBERG, Hazardous Materials Specialist II
Hazardous Materials Management Division

KDW:cl

cc: James Munch, RWQCB
Kevin Heaton, HMMD

United States Testing Company, Inc.
Engineering & Support Services
3467 KURTZ STREET
SAN DIEGO, CALIFORNIA 92110 (619) 225-9641
FAX (619) 224-8950

NEW YORK
MEMPHIS
ORLANDO
MODESTO
SAN DIEGO
PENNSYLVANIA
ATLANTIC CITY
HOBOKEN

221-021.23

rec'd 11/7/90
8:00 AM

December 19, 1990

Job No. 7885

Environmental Health Services
Hazardous Materials Management Division
P.O. Box 85261
San Diego, California 92138-5261

Attention: Ms. Susan Pease

Subject: Unauthorized Release T1399/H03452-001
Palomar College
1140 W. Mission Road
San Marcos, California

Reference: Site Assessment Report
Prepared by United States Testing Company
Dated July 13, 1990
Letter Regarding Monitoring Well Installation
Prepared by United States Testing Company
Dated May 24, 1990

Letter to HMMD
Prepared by United States Testing Company
Dated October 10, 1990

Dear Ms. Pease:

This letter is based upon additional information obtained after our October 10, 1990, letter was written. We were notified on October 26, 1990, by Palomar College that water had been observed in the monitoring well which had been installed on the site. An inspection of the well revealed that water was in fact present. We proceeded to obtain samples and have them analyzed for possible contamination. Due to the slow recharge of the well, a modified protocol was recommended by Mr. Jim Munch of

1.0 PRESENT CONDITIONS

At the time the monitoring well was installed on September 28, 1990 and then checked 3 days later on October 1, 1990, no water was detected. Our report of October 10, 1990, was based on this set of information. On October 26, 1990, we were contacted by Palomar College personnel who indicated groundwater was present in the well. We inspected the site on the evening of October 30, 1990, and confirmed that water was present at approximately eight feet below the ground surface. We decided to draw the well down to see what the recovery rate was. The well was drawn down to approximately eleven and one-half feet. The level was checked the next afternoon on October 31, 1990, approximately 21 hours later. The well had recovered 6 inches to eleven feet at the time. The well was sampled (MW1-1) and then drawn down to the eighteen and one half foot level. A Solinst depth gauge was left with Palomar College maintenance personnel so that they could record the well's recovery rate. The specific data is noted on Table 1. The information indicated that the well was recovering at about 8 inches per day. When we received the TPH sample result back, which was non-detectable, we contacted Jim Munch of the RWQCB to establish a procedure for sampling the well which would be acceptable to the board as the standard protocol was not appropriate for the existing site conditions. Mr. Munch recommended a modified protocol to obtain sufficient information to make a determination as whether closure status could be granted or not.

2.0 FIELD INVESTIGATION

Based on the recommended protocol established by Mr. Munch we returned to the site on November 19, 1990. Mr. Munch had recommended that a sample be collected from the existing water that was present in the well when it had recharged. Then the well should be drawn down completely. As soon as enough water had re-entered the well that a sample could be taken, it should be collected. Both samples should be analyzed for TPH and BTXE. On the morning of November 19, 1990, we obtained the first sample which was identified as MW 1-2. This was taken after the static water level was checked and before any other water was withdrawn from the well. The static water level stood at 9 feet three-quarters of an inch below the top of the PVC casing from which all measurements were taken. The water was then drawn down to a depth of 20 feet, eight inches. At this depth only moist sand was recovered when the bailer was lowered to the bottom of the well. When we returned later in the afternoon, the well had recovered approximately 6 inches and there was enough water to fill two 40 millimeter water sample vials. All the well samples were collected with a bailer that had been cleaned with trisodium phosphate (TSP) and triple rinsed before sampling. The samples were labeled,

placed in cooled ice chests and delivered under chain of custody procedures to Quality Assurance Laboratory in San Diego. The sample labels included the date, sampler's name and sample identification number.

The groundwater samples were analyzed for total petroleum hydrocarbons (TPH) by DHS Method and for benzene, toluene, xylene and ethylbenzene (BTXE) by EPA Method 602.

3.0 LABORATORY TEST RESULTS

All the sample results came back below detection limit. The first water sample (MW1-1) taken from the well on October 31, 1990, was the initial charge of water that filled the well. This sample was only analyzed for TPH. The result was less than 100 micrograms per liter (ug/l). The second water sample (MW1-2) was taken on the morning of November 19, 1990 and was the recharge from the draw down that had occurred on October 31, 1990. The TPH result was less than 100 ug/l. The benzene, toluene, and ethylbenzene were less than 0.5 ug/l. Xylene was less than 1.5 ug/l. The third water sample (MW 1-3) was obtained on the afternoon of November 19, 1990. It was the initial recharge after the well had been completely drawn down in the morning. The results were TPH less than 100 ug/l, BTE less than 0.5 ug/l and xylene less than 1.5 ug/l.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The well water sample results all indicate that groundwater contamination is not a concern as all the well results have been below detection limits. The initial site water sample was taken on June 28, 1989, from the open excavation, the sample contained 81.2 ppm TPH which is equivalent to 81200 ug/l. We believe this contamination was due either to material released at the time the tank was removed or to runoff washed into the excavation from the surrounding pavement. If the groundwater itself was contaminated the well results would have shown some positive results. The slow recharge rate is the reason we did not discover water until three weeks after the well was originally installed. The other soil samples taken onsite have established that only minor amounts of contamination exist. In all cases less than 100 ppm are present in the soil. The one area where soil contamination was suspected in the trench. The suspected contaminated material was placed in barrels and removed to a proper disposal facility. Of the nine soil samples obtained by U.S. Testing, seven had results below detection limits and the other two were 19 and 33 mg/kg. The factual evidence indicates that soil and groundwater contamination

is not a concern at this site. We would recommend that closure status be granted based on the available information.

INVESTIGATION LIMITATIONS

This investigation was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable Engineers and Geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

The samples taken and used for testing and the observations made are believed representative of the entire project; however, soil conditions as well as chemical contaminant concentrations can vary significantly between sampling locations.

This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the regulatory agencies as may be required by law.

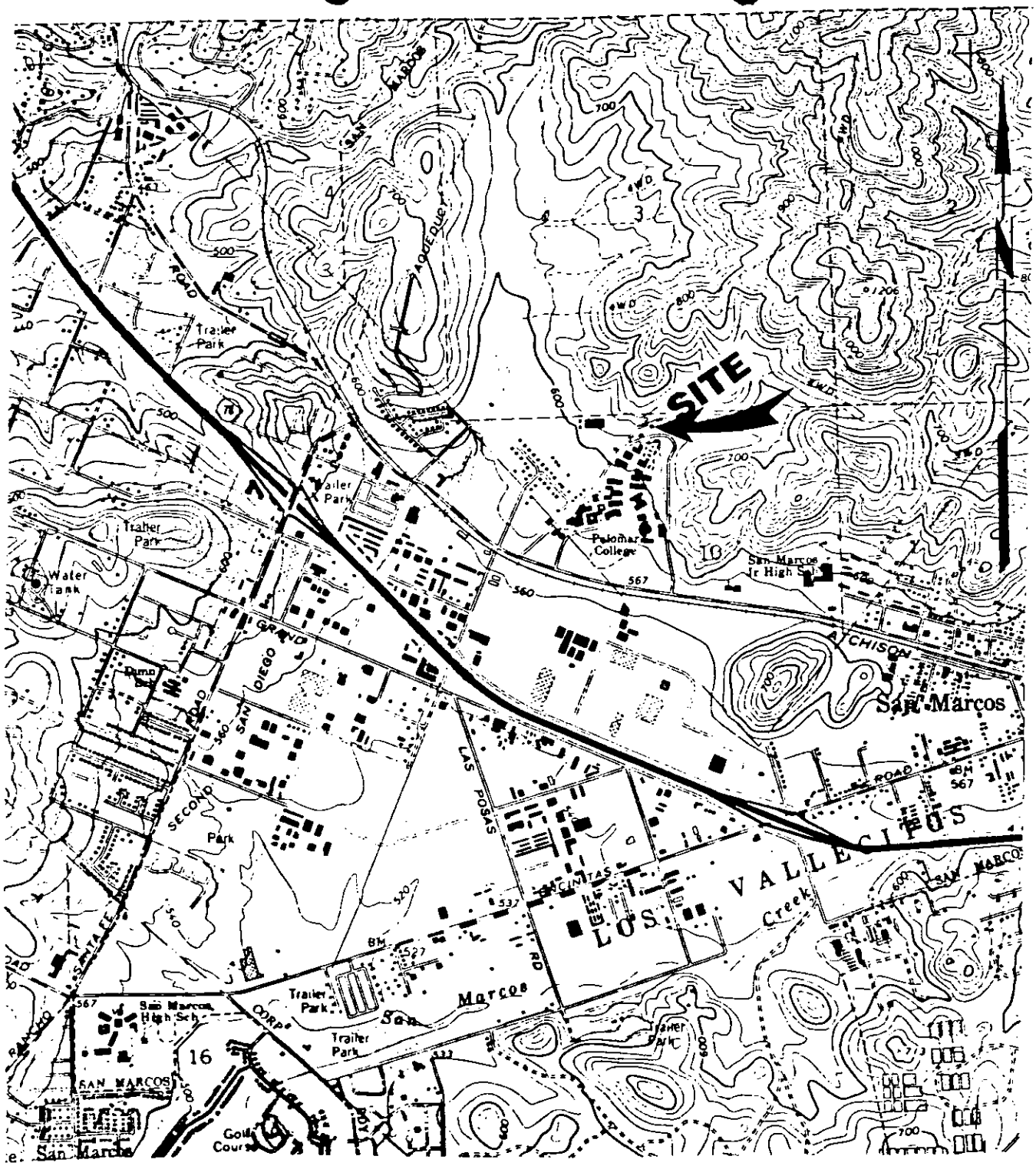
The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Therefore the findings of this report may be wholly or partially invalidated by changes outside of our control.

PALOMAR COLLEGE MONITORING WELL

TABLE I

Date	Depth to Water*	Comment
September 28, 1990	No water present	After well installation completed
October 1, 1990	No water present	
October 30, 1980	8' 4-1/2"	Initial reading 5:30 p.m.
October 30, 1990	11' 7-1/2"	Well drawn down 3' 6:00 p.m.
October 31, 1990	11' 1-1/4"	Well recharge 3:00 p.m.
October 31, 1990	18' 8"	Well drawn down 4:00 p.m.
November 1, 1990	17' 6-1/4"	
November 2, 1990	16" 9-3/4"	
November 3, 1990	16' 3"	
November 4, 1990	15' 6"	
November 5, 1990	15' 1/2"	
November 6, 1990	14' 5"	
November 7, 1990	13' 9"	
November 8, 1990	13' 2"	
November 19,1990	9' 3/4"	Sample taken in morning
November 19,1990	20' 8"	Well drawn down completely in a.m.
November 19,1990	20' 2"	Recharge sample taken in p.m.

* Depth to water was measured from top of PVC casing.



SCALE 1 = 24000

UNITED STATES TESTING COMPANY INC.		
SITE TOPOGRAPHY MAP		
JOB NO. 7885	DATE: 12/14/90	FIG. 1

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DR., SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

U.S. TESTING CO
ATTN: JOSEPH WELCH
3467 KURTZ ST.
SAN DIEGO, CA 92110

DATE OF REPORT	NOVEMBER 6, 1990
DATE RECEIVED	NOVEMBER 1, 1990
DATE OF SAMPLE	OCTOBER 31, 1990
DATE COMPLETED	NOVEMBER 5, 1990
ANALYZED BY	GA
SAMPLE TYPE	1 GROUND WATER
PROJECT NAME	PALOMAR COLLEGE
PROJECT NUMBER	7885

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	ANALYSIS: TPH METHOD: DHS* UNITS: UG/L
16099-90	MW1-1	<100

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

PS/ah

QUALITY ASSURANCE LABORATORY

QUALITY CONTROL DATA REPORT

QUALITY CONTROL DATA REPORT
NOVEMBER 5, 1990

U.S. TESTING CO.
LOG #16099-90

ANALYSES	METHOD	CCCV %RECOVERY	SPIKE %RECOVERY	DUPLICATE RPD
TPH	DHS	112%	76%	3%

LISA MACCLELLAN
QA/QC DIRECTOR

QUALITY CONTROL TERMINOLOGY

*CCCV-CONTINUING CALIBRATION CURVE VERIFICATION. REPORTED AS % RECOVERY OF AN INDEPENDENT STANDARD TO VERIFY LINEARITY OF THE OPERATING STANDARD CURVE. ACCEPTABLE RANGE IS 80%-120% RECOVERY.
*SPIKE-ENVIRONMENTAL SAMPLE IS MATRIX SPIKED WITH METHOD COMPOUNDS AND % RECOVERY OF CONCENTRATION SPIKED INTO SAMPLE IS CALCULATED. REPORTED AS % RECOVERY. ACCEPTABLE RANGE FOR "NORMAL MATRIX SAMPLES" IS 75%-125% RECOVERY.
*SURROGATES-COMPOUNDS REPRESENTATIVE OF A GROUP OF COMPOUNDS. SURROGATES ARE SPIKED INTO ENVIRONMENTAL SAMPLES AND % RECOVERY OF CONCENTRATION SPIKED IS CALCULATED AND REPORTED. ACCEPTABLE RANGE VARIES DEPENDING UPON SAMPLE MATRIX AND ANALYSES METHOD.

FOR A MORE DETAILED EXPLANATION OF QC DATA, PLEASE REFER TO QUALITY ASSURANCE LABORATORY'S "QUALITY ASSURANCE PLAN" OR "UNDERSTANDING YOUR QUALITY CONTROL DATA". BOTH PUBLICATIONS ARE AVAILABLE FROM QAL.

705

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: US Testing

PROJECT NAME/NUMBER: Palomar College 7885

Q.A. LOG NUMBER: 16099-90 TO

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
MW1-1	10/31/90	Palomar	1 VOA	Grnd Water	TPH ~~[illegible]~~	Gasoline Expected

TRANSPORT CONDITION: Chilled

CORRECT CONTAINER TYPE: YES ✓ NO ____

SEND RESULTS TO ATTN: Joseph Welch

PHONE #: (619) 225-9641

MAIL TO: US Testing Co
3417 Kurtz St
San Diego CA 92110

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Joseph Welch	11/1/90 08:54	[illegible signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

United States Testing Company, Inc.

QUALITY ASSURANCE LABORATORY
6555 NANCY RIDGE DRIVE, SUITE 300
SAN DIEGO, CALIFORNIA 92121
(619) 566-1060

US TESTING CO.
ATTN: JOE WELCH
3467 KURTZ ST.
SAN DIEGO, CA 92110

DATE OF REPORT	DECEMBER 3, 1990
DATE RECEIVED	NOVEMBER 19, 1990
DATE OF SAMPLE	NOVEMBER 19, 1990
DATE COMPLETED	NOVEMBER 30, 1990
ANALYZED BY	GA VJ
SAMPLE TYPE	2 WATER
PROJECT NAME	PALOMAR
PROJECT NUMBER	7885

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	ANALYSIS: METHOD: UNITS:	TPH DHS* UG/L	BENZENE EPA 602 UG/L	TOLUEN EPA 602 UG/L	ETHYLBENZENE EPA 602 UG/L	XYLENE EPA 602 UG/L
17014-90	MW1-2		<100	<0.5	<0.5	<0.5	<1.5
17015-90	MW1-3		<100	<0.5	<0.5	<0.5	<1.5

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

PETER SHEN
LABORATORY DIRECTOR

PS/at

QUALITY ASSURANCE LABORATORY
QUALITY CONTROL DATA REPORT

QUALITY CONTROL DATA REPORT
DECEMBER 3, 1990

U.S. TESTING
LOG #17014-90 THROUGH 17015-90

ANALYSES	METHOD	CCCV %RECOVERY	SPIKE %RECOVERY	DUPLICATE RPD
TPH	DHS	108%	130%	11%

LISA MACCLELLAN
QA/QC DIRECTOR

QUALITY CONTROL TERMINOLOGY

*CCCV-CONTINUING CALIBRATION CURVE VERIFICATION. REPORTED AS % RECOVERY OF AN INDEPENDENT STANDARD TO VERIFY LINEARITY OF THE OPERATING STANDARD CURVE. ACCEPTABLE RANGE IS 80%-120% RECOVERY.
*SPIKE-ENVIRONMENTAL SAMPLE IS MATRIX SPIKED WITH METHOD COMPOUNDS AND % RECOVERY OF CONCENTRATION SPIKED INTO SAMPLE IS CALCULATED. REPORTED AS % RECOVERY. ACCEPTABLE RANGE FOR "NORMAL MATRIX SAMPLES" IS 75%-125% RECOVERY.
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FOR A MORE DETAILED EXPLANATION OF QC DATA, PLEASE REFER TO QUALITY ASSURANCE LABORATORY'S "QUALITY ASSURANCE PLAN" OR "UNDERSTANDING YOUR QUALITY CONTROL DATA". BOTH PUBLICATIONS ARE AVAILABLE FROM QAL.

QUALITY CONTROL DATA REPORT, CONTINUED
DECEMBER 3, 1990

U.S. TESTING CO.
SAMPLE LOG #17014-90 THROUGH 17015-90

EPA METHOD 602

Concentrations were calculated using a 4 point curve of concentrations 2.5, 5, 10 and 20 ppb.

CONTINUING CALIBRATION CURVE VERIFICATION

A 15 ppb standard verification was run in the sample set up.

COMPOUND	%RECOVERY
Benzene	103%
Toluene	105%
Ethylbenzene	106%
Xylenes	108%

Log #17104-90 was spiked in duplicate with a 15ppb 602 standard.

COMPOUND	%RECOVERY	DUPLICATE %RPD
Benzene	100%	2%
Toluene	101%	1%
Ethylbenzene	104%	0%
Xylenes	105%	1%

LISA MACCLELLAN
QA/QC DIRECTOR

QUALITY CONTROL TERMINOLOGY

•CCCV-CONTINUING CALIBRATION CURVE VERIFICATION. REPORTED AS % RECOVERY OF AN INDEPENDENT STANDARD TO VERIFY LINEARITY OF THE OPERATING STANDARD CURVE. ACCEPTABLE RANGE IS 80%-120% RECOVERY.
•SPIKE-ENVIRONMENTAL SAMPLE IS MATRIX SPIKED WITH METHOD COMPOUNDS AND % RECOVERY OF CONCENTRATION SPIKED INTO SAMPLE IS CALCULATED. REPORTED AS % RECOVERY. ACCEPTABLE RANGE FOR "NORMAL MATRIX SAMPLES" IS 75%-125% RECOVERY.
•SURROGATES-COMPOUNDS REPRESENTATIVE OF A GROUP OF COMPOUNDS. SURROGATES ARE SPIKED INTO ENVIRONMENTAL SAMPLES AND % RECOVERY OF CONCENTRATION SPIKED IS CALCULATED AND [illegible] DEPENDING UPON SAMPLE MATRIX AND ANALYSES METHOD

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Quality Assurance Laboratory
6555 Nancy Ridge Drive, Suite 300
San Diego, CA 92121 (619) 566-1060

CHAIN OF CUSTODY

Date: 11/19/90 Page 1 of 1

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: US Testing Co	PROJECT NAME/NUMBER: Palomar 7885
PROJECT MANAGER: Joe Welch	**BILLING INFORMATION**
ADDRESS: 3467 Ruffin Rd #51 San Diego CA 92111	BILL TO: US Testing ADDRESS: 3467 Ruffin Rd #51 San Diego CA 92111
PHONE: (619) 225 9641	PHONE: 225-9641 PO #:

QA LOG #	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER TYPE	NUMBER OF CONTAINERS	ANALYSIS REQUEST: TPH	ANALYSIS REQUEST: BTXE
17014	MW1-2	11/19/90	11 AM	Water	G/VOA Vials	3	✓	✓
17015	MW1-3	11/19/90	3:30 PM	Water	G/VOA Vials	3	✓	✓

United States Testing Company, Inc

SAMPLE INTEGRITY

HOLDING TIME							✓	✓													
CORRECT CONTAINER	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N

1. RELINQUISHED BY:	DATE:	2. RELINQUISHED BY:	DATE:	3. RELINQUISHED BY:	DATE:
SIGNATURE: Joseph Welch	11/19/90	SIGNATURE:		SIGNATURE:	
PRINTED NAME: Joseph Welch	TIME: 4:21P	PRINTED NAME:	TIME:	PRINTED NAME:	TIME:
COMPANY: US Testing Co		COMPANY:		COMPANY:	
1. RECEIVED BY:	DATE:	2. RECEIVED BY:	DATE:	3. RECEIVED BY:	DATE:
SIGNATURE: John Kostka	11/19/90	SIGNATURE:		SIGNATURE:	
PRINTED NAME: Earl Kostka	TIME: 4:21P	PRINTED NAME:	TIME:	PRINTED NAME:	TIME:
COMPANY: GTI		COMPANY:		COMPANY:	

SAMPLE RECEIPT

RECEIVED ON ICE	YES / NO
TAPE SEAL INTACT	YES / NO / NA
PRESERVATIVE	YES NO
PRECAUTIONS:	

SPECIAL INSTRUCTIONS

TAT REQUESTED: Normal

— ALL SAMPLES ARE SUBJECT TO TERMS AND CONDITIONS ON REVERSE SIDE —

SITE AS[redacted]MENT AND MITIGATION DIV[redacted]N

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

ESTABLISHMENT NO. H03452 PLAN CHECK NO. AT3452/T2768

SITE NAME PALOMAR COMM. COLLEGE DISTRICT PHONE

SITE ADDRESS 1140 W. MISSION RD CITY SAN MARCOS ZIP 92069

CONTRACTOR ACE EXCAVATING PHONE (619) 449-3983

Number of tanks to be removed 0 2 **1** 4 5 6 7 8

Decontamination by ALTERNATE DISPOSAL

Manifest No. TO D.K (100g)

Tank rinsate/(amount & destination) #93271407

FIRE AGENCY PRESENT **YES** NO

Dept. SM FD

Permit No.

Inspector

Tank ID No.	001				REMARKS
Capacity	1000				TANK TO: ERAN SOIL
Tank Construction	Steel				
Materials stored	GAS				
% L.E.L.	0				
Dry ice/other (amt.)	15				
Tank condition	Steel tank. ~4-5 holes with on suction end of tank (side end of tank)				
Backfill soil type	silty SAND				(~ 1-1½ inches in diam)
Backfill condition	Slight to moderate odor				
Native soil type	medium to coarse sand / decomposed granite				
Native condition	Slight to moderate odor / no misc				
Excavation odors?	Slight				
Stockpile odors?	Slight to moderate				
Water present?	NO				
Ponded product?	NO				
Piping removed?	Yes				

REINSPECTION REQUIRED YES **NO** If yes, explain

NOTICE: You are hereby notified that on 12/23/93, a Hazardous Materials Specialist conducted an inspection for the closure of one hazardous substance underground storage tank(s). A summary of the conditions follows:

☐ An unauthorized release of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☑ A determination of this site's status is pending the Site Assessment and Mitigation Division's (SAM) receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to JOHANNA BARRY at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ **TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED**

☒ **INITIATE CORRECTIVE ACTION MEASURES** (See enclosed information)

Approved by: J. BARRY Date Reviewed: 12/29/93 Supervisor (initial): MOV

RECEIVED BY Gary Gillam

PRINTED NAME Gary Gillam

PHONE NUMBER 619-449-3983

Johanna Barry

Hazardous Materials Specialist
SAM - P.O. Box 85261
San Diego, CA 92186-5261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

County of San Diego
Department of Health Services
Environmental Health Services

Type(s) of hazardous substance(s) released (mark all that apply):

☑ Gasoline ☐ Diesel ☐ Waste oil ☐ Other _____

Is hazardous material ponded? ☐ Yes* ☑ No *Estimated amount? _____

Estimated depth to groundwater below this site: undet. feet Beneficial use? ☐ Yes ☐ No

SOIL CONDITIONS (Odors, Staining, Volume):

Describe backfill and its condition: SILTY SAND.
Slight odor / No disc.

Describe native soil and its condition: medium to course sand / Decomposed granite
Slight to moderate odor / No disc.

How was hazardous substance released? _____

Tank condition (holes, corrosion, wrapping, seams, evidence of overfill) see (Page 1)

Estimated length of piping removed? 8' feet Date tanks last used?

Nearby water wells or surface waters? ☐ Yes* ☑ None noted

*Describe _____

Any known sensitive receptors, i.e., underground vaults, utilities or basements nearby? ☐ Yes* ☑ None noted

*Describe _____

COMMENTS: Bottom of tank at 6.5' bgs. Suction system.
Tank emptied. Not in-use for ~30 yrs.

County of San Diego
Department of Health Services
Environmental Health Services

FIELD NOTES

Date: 12-23-93

H 63452

Tank(s) last used: _____

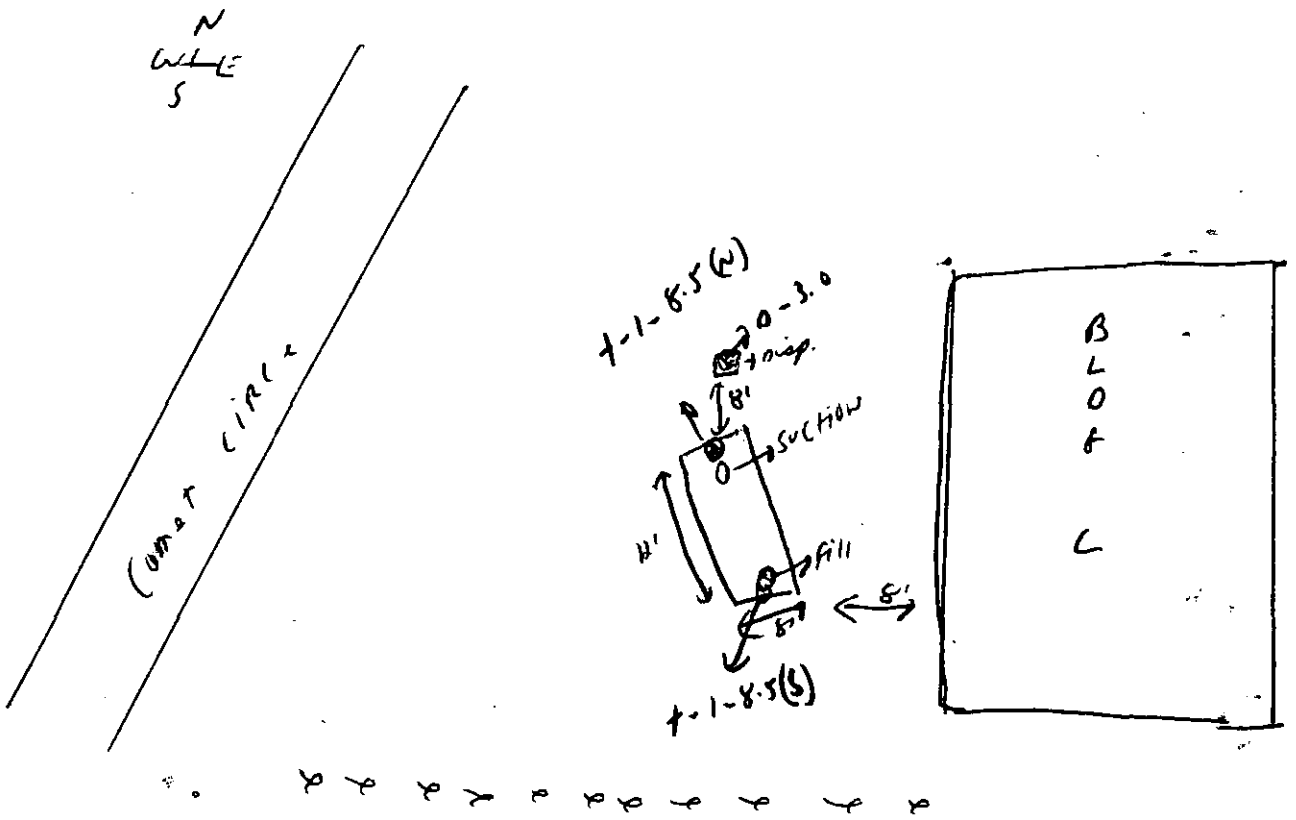
AT/NT 3452

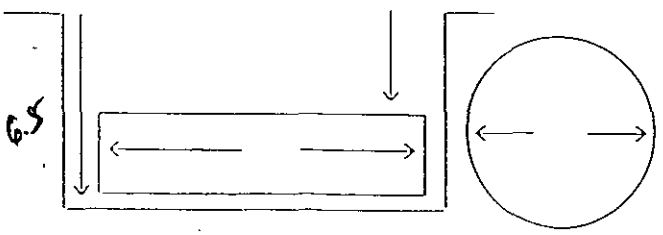
Approx. age of tank(s): _____

Tank(s) destination: _____

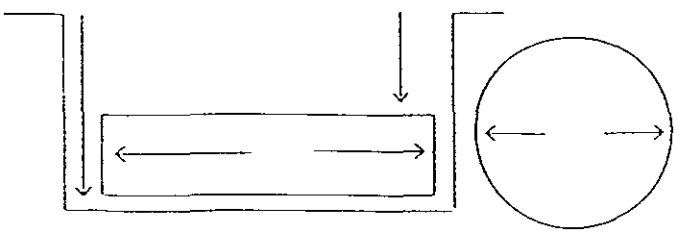
Manifest #: _____ Gallons: _____ to: _____

Decontamination by: _____ lbs. dry ice: (1) _____ (2) _____ (3) _____ (4) _____

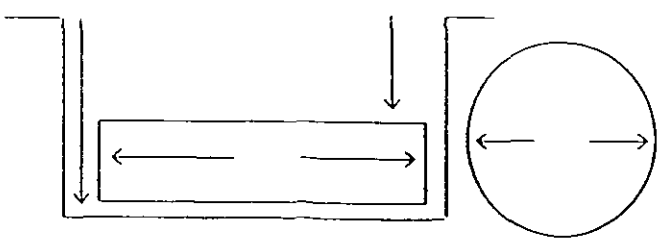




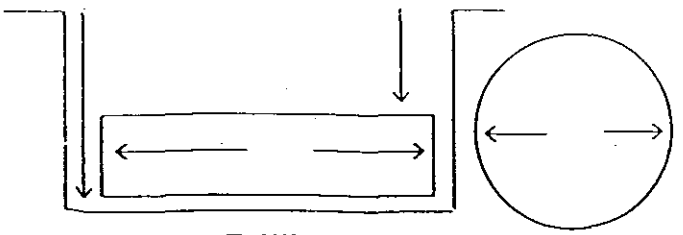
TANK 1



TANK 3



TANK 2



TANK 4

N
I
S

PALOMAR College
1140 W. mission rd.
SAN MARCOS CA 92069

12-23-93 H03452

PALOMAR College
1140 W. mission rd
SAN MARCOS CA 92069

12-23-93 H03452

PALOMAR College
1140 W. mission rd
SAN MARCOS CA 92069

12-23-93 H03452

N
S

PALOMAR College
1140 W. mission rd.
SAN MARCOS CA 92069

12-23-93 H03452

FAX Transmission

From:	Ric Johnson	Ace Excavating & Environmental Services
Questions?	Call 619-449-3983 Fax 619-449-6329	1648 No. Magnolia Ave - Suite 105 El Cajon, Ca. - 92020
To:	Johanna Barry	
Company:	HMMD	338-2377,
Address:		
Date:	December 28, 1993	
Time:	12:05 PM	Pages: FIVE (including this one)

Message:

Here are all soil sample results and Chain of Custody forms to date for the Palomar College project. We appreciate your attention and concern for this project because we are attempting to avoid a health and safety problem when the College re-opens for the spring semester.

Thank you,

Ric

Error! Bookmark not defined.

REPORT SUMMARY

To: Ace Excavating, Larry Gillum

Project: Palomar College

Location: 1140 West Mission, San Marcos, CA

overexcavation
backfill

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
(CA DOHS LUFT Method)

Date Received: December 23, 1993
Date Extracted/Analyzed: December 23, 1993
Analyst: J.E. Picker

Sample Matrix: soil

FIELD NUMBER	AMOUNT FOUND (mg/kg)	DETECTION LIMIT (mg/kg)	CARBON RANGE
N-10'	2,900 gasoline	10	C_6-C_{12}
N-12'	2,500 gasoline	10	C_6-C_{12}
S-10'	1,000 gasoline	10	C_6-C_{12}
S-12'	340 gasoline	10	C_6-C_{12}

nd = not found above the detection limit

Reviewed by R. Johnson/ date
AE8RPT

MOBILE/one LABORATORIES, INC.

CHAIN-OF-CUSTODY RECORD

Date 12/23/93 page 1 of 1

Client: Ace Excavating
Address: Palomar College
1140 W Mission
San Marcos
Project:
Sampler (signature):

Analysis Requested: TPH

Sample No.	Date	Time	Location	TPH						No. of containers	Comments
S-10'	12/23/93	10:50		x						1	
N-10'	|	11:10		x						1	
N-12'		11:20		x						1	
S-12'	12/23/93	11:35		x						1	

Storage/Shipping Info.: 4 ← Total No. of containers

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
[signature] Signature	[signature] Signature	Signature	Signature	Signature	Signature
Larry L. Gillson Printed Name	J. Picker Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Company	Mobile One Company	Company	Company	Company	Company
12/23/93 12:10 Date Time	12/23/93 12:10 Date Time	Date Time	Date Time	Date Time	Date Time

9964 ELFIN FOREST LANE, ESCONDIDO, CA 92029 PHONE (619) 591-3666

Error! Bookmark not defined.

REPORT SUMMARY

To: Ace Excavating, Larry Gillum

Project: Palomar College

Location: 1140 West Mission, San Marcos, CA

TOTAL PETROLEUM HYDROCARBONS ANALYSIS
(CA DOHS LUFT Method)

Date Received: December 23, 1993
Date Extracted/Analyzed: December 23, 1993
Analyst: J.E. Picker

Sample Matrix: soil

FIELD NUMBER	AMOUNT FOUND (mg/kg)	DETECTION LIMIT (mg/kg)	CARBON RANGE
[redacted]	[redacted]	10	C_6-C_{12}
[redacted]	[redacted]	10	C_6-C_{12}
[redacted]	nd	10	

nd = not found above the detection limit

Reviewed by R. Johnson/ date
AE3ARPT

County Of San Diego

SA/M Chain-of-Custody Record

Date 12-23-93 Page 1 Of 1

Project Name [illegible handwriting]
Reference [illegible handwriting]
Address [illegible handwriting]
Samplers Signature [signature]
Lab To Be Used

COPY OF LAB RESULTS MUST BE SENT TO :
County Of San Diego
Hazardous Materials
Management Division
P.O. Box 85261
San Diego , Ca 92186-5261

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TPH EPA 418.1	BTXE (5020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T-1-8.5(S)	12-23-93	9:40	[illegible]	✓						✓		✓		1	[illegible]
T-1-8.5(N)	" "	9:40	[illegible]	✓						✓		✓		1	on 8015
D-3.0	" "	9:50	[illegible]	✓						✓		✓		1	

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
[signature] Signature	12/23/93	Signature		Signature	
Larry L. Gillum Printed Name	Time 1210	Printed Name	Time	Printed Name	Time
Company		Company		Company	
RECEIVED BY [signature]	Date 12/23/93	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature T. Picker	Time 12/23	Signature	Time	Signature	Time
Printed Name M. Lile Oie Labs	1210	Printed Name		Printed Name	
Company		Company		Company	

3 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice Yes/No
Tape Seal Intact Yes/No

Special Shipment/Handling Or Storage Requirements:

Split Sample Location
N/A

Site Identification
H# 05452 AT# 3922
HMMD [illegible]

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - HMMD

DHS: HM-999 (REV. 9/92)

County of San Diego
Department of Health Services

County Of San Diego

SA/M Chain-of-Custody Record

Date 12-23-93 Page 1 of 1

Project Name	[illegible]
Reference	[illegible]
Address	[illegible]
Samplers Signature	[signature]
Lab To Be Used	

COPY OF LAB RESULTS MUST BE SENT TO :
County Of San Diego
Hazardous Materials
Management Division
P.O. Box 85261
San Diego , Ca 92186-5261

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T-1-8.5'(S)	12-23-93	9:40	South end of tank at 8.5	✓						✓		✓		1	Full range
T-1-8.5'(N)	"	9:41	North end of tank at 8.5	✓						✓		✓		1	on 8015
D-3.0	"	9:50	Under disp.	✓						✓		✓		1	

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	Time	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature	Time	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	

3 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice Yes/No
Tape Seal Intact Yes/No

Special Shipment/Handling Or Storage Requirements:

Split Sample Location
none

Site Identification
H# 03452 AT# 3433
HMMD [illegible]

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - HMMD

DHS: HM-999 (REV. 9/92)

County of San Diego
Department of Health Services

MF

H03452

Environmental Business Solutions, Inc.
"Providing Economic Environmental Solutions to the Business Community"

September 29, 1995 Copy No. 1
Project Number: 94E1196.1

Ms. Johanna Barry
County of San Diego
Department of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, California 92186-5261

RE: **Report of Quarterly Groundwater Monitoring Activities Pursuant to the Requirements of the San Diego County Site Assessment and Mitigation Division (SAM) at the Palomar College Art Department Storage Area, 1140 West Mission Road, San Marcos, California (Site)**

Dear Ms. Barry:

Environmental Business Solutions, Inc. (EBS) is pleased to present this letter report (Report) summarizing the results of the quarterly groundwater monitoring (monitoring) performed at the above-described Site (Figures 1 and 2). The monitoring was conducted by EBS in response to the requirements in your letter to Ms. Kelly MacIssac of Palomar College dated July 19, 1995, and in general accordance with Scope of Services Change Number 1 to the Consulting Agreement (Contract) between EBS and Palomar Community College (Client). The Contract was fully executed on April 8, 1994.

BACKGROUND

One underground storage tank (UST) was recently removed from the Site. After the removal of the UST, and subsequent excavation of petroleum hydrocarbon-bearing soil from the vicinity of the UST, the SAM required the installation and monitoring of one groundwater monitoring well to assess the possible impact to groundwater as a result of a release from the UST.

On February 20, 1995, pursuant to the requirements of the SAM and in general accordance with our contract with the Client an approved workplan and a monitoring well permit, one groundwater monitoring well was installed adjacent to and in the vicinity of the former UST excavation at the Site.

On April 6, 1995, the well was monitored, purged, and sampled in general accordance with the well sampling protocol referenced in the 1995 SAM Manual. The water sample was tested for total petroleum hydrocarbons (TPH) in general accordance with modified EPA Method 8015, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) in general accordance with EPA Method 8020. No detectable concentrations of TPH or BTEX were reported by Transglobal Environmental Geochemistry (TEG). The results of the initial monitoring event were submitted to the SAM on June 27, 1995 in our "Report of Groundwater Assessment Activities at the Palomar College Art Department Storage Area."

Based on your letter to Ms. MacIssac dated July 19, 1995, that upon review of the above-referenced report, the SAM requested that one additional round of groundwater monitoring and sampling be conducted.

OBJECTIVE

The objective of the scope of services was to assess the likelihood that the shallow groundwater in the vicinity of the former UST has been impacted by petroleum hydrocarbons.

SCOPE OF SERVICES

The scope of services used to meet the objective included the following tasks:

- **Groundwater Monitoring Well Monitoring, Purging, and Sampling;**
- **Laboratory Testing; and**
- **Report Preparation.**

MONITORING, PURGING, AND SAMPLING PROCEDURES

On September 9, 1995, groundwater monitoring well MW-1 was monitored with a Keck interface probe, reported by the manufacturer as being capable of measuring groundwater and free product to within 0.01 foot. The interface probe was pre-cleaned with an Alconox solution, two tap water rinses, and one distilled water rinse.

The depth to groundwater measured in the well was approximately 12.83 feet below grade.

Free floating product in the well was not detected by the Keck probe, and petroleum odors were not noted.

The well was purged and sampled in general accordance with SAM protocol. The purging of the well was conducted with a submersible pump, and the purged groundwater was pumped into 55-gallon drums. Prior to purging, the downhole equipment was pre-cleaned according to the above-referenced protocol.

Approximately 155 gallons, or approximately 1.5 borehole volumes of water was purged from well MW-1. The depth to water was measured at periodic intervals after the purging was completed, and based on the rate of recharge, the well was judged to be slow recharging. The well was sampled after two hours when it was observed that the groundwater in the well had not reached 80 percent of its static water level.

In general accordance with SAM guidelines, one water sample was collected with single-use disposable bailer and decanted into laboratory-supplied volatile organic analysis (VOA) vials for laboratory analyses. Chain-of-custody procedures were used to document groundwater sample handling and transport from the time of sample collection until delivery at the laboratory.

The sample was transported on ice and delivered to Transglobal Environmental Geochemistry, Inc. (TEG) for analysis.

LABORATORY TESTING

The groundwater sample was tested for TPH in general accordance with modified EPA Method 8015, and for BTEX in general accordance with EPA Method 8020. Laboratory results are presented in Table 1. Laboratory reports are attached.

DISCUSSION

Groundwater Monitoring

Groundwater at the Site was encountered at an approximate depth of 12.83 feet below grade. The Keck interphase probe did not detect any measurable thickness of free product in well MW-1.

Groundwater Quality

Results of the current round of groundwater testing are presented in Table 1. Laboratory test results are attached.

The groundwater sample was tested for TPH and BTEX. No detectable concentrations of either TPH or BTEX were reported by TEG in the groundwater sample from MW-1.

CONCLUSIONS

Based on the groundwater sampling and analyses, the data presented in this report, current regulatory guidelines, and the professional judgment of EBS, in our opinion the following conclusions have been reached:

- Groundwater beneath the Site was encountered at an approximate depth of 12.83 feet below grade.
- Free floating product in the well was not detected by the Keck probe, and petroleum odors were not noted.
- TPH was not detected in the groundwater sample collected from monitoring well MW-1.
- BTEX constituents were not detected in the sample collected from monitoring well MW-1.

RECOMMENDATION

The following recommendation is based on the data, findings, and conclusions presented in this Report and our professional experience:

- We recommend the SAM consider that this assessment case be closed and given a status of "no further action."

It has been a pleasure working with you on this project. If you have any questions or concerns, please do not hesitate to contact our office at (619) 571-5500.

Respectfully,
ENVIRONMENTAL BUSINESS SOLUTIONS, INC.

Steven R. Truesdale
Staff Geologist

Daniel E. Johnson
Principal

Barry S. Pulver, CEG 1364
Principal

cc: Ms. Kelly Maclssac, Palomar College

SRT15/94e1196.qmr2

TABLE

TABLE 1

GROUNDWATER MONITORING AND SAMPLE ANALYTICAL RESULTS

TOTAL PETROLEUM HYDROCARBONS AND BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Groundwater sample collected on September 9, 1995

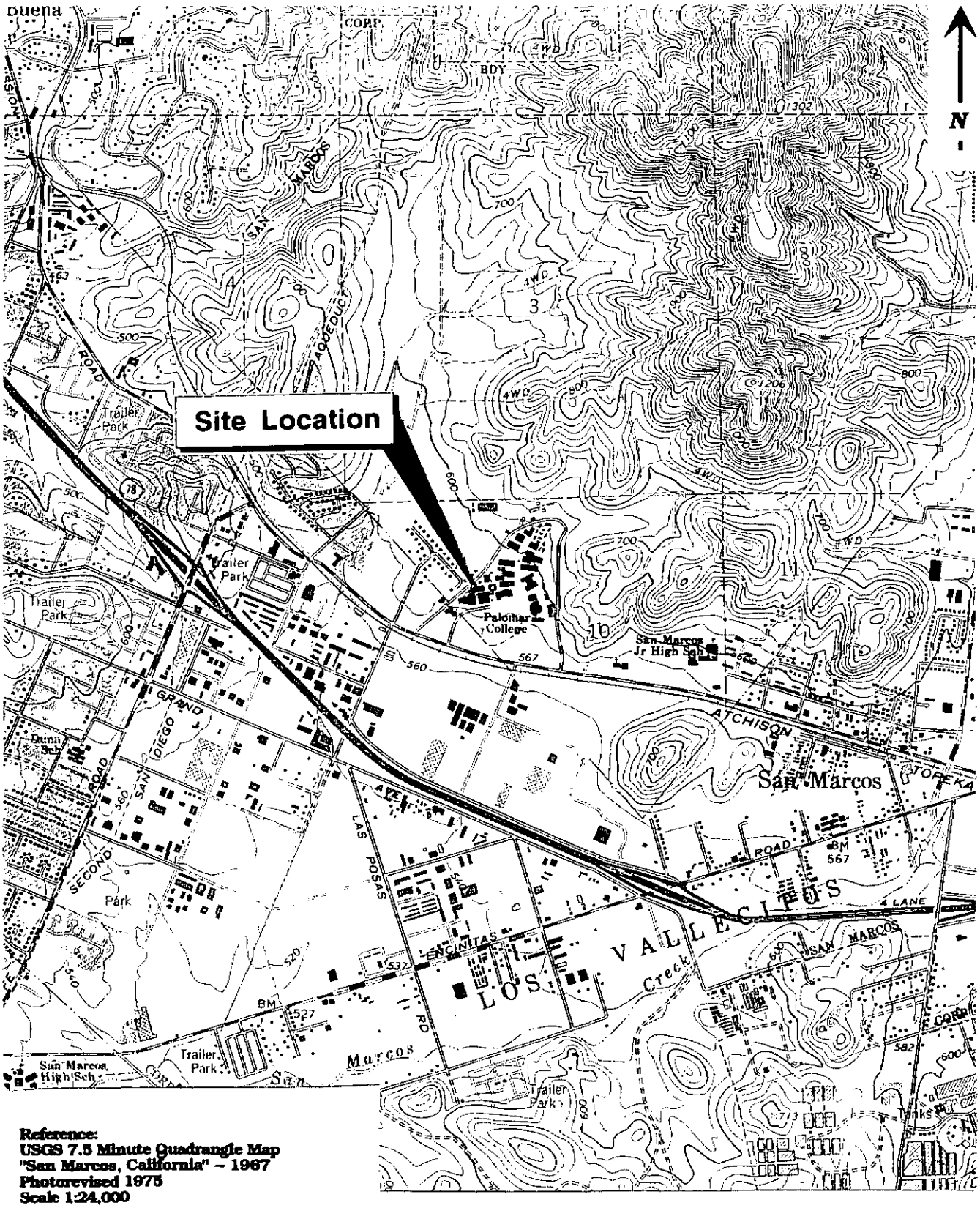
WELL NUMBER	DEPTH TO WATER (IN FEET)	TPH[1]	BTEX[2]
MW-1	12.83	ND	ND

Notes:

1. TPH = total petroleum hydrocarbons analyzed in general accordance with modified EPA Method 8015.

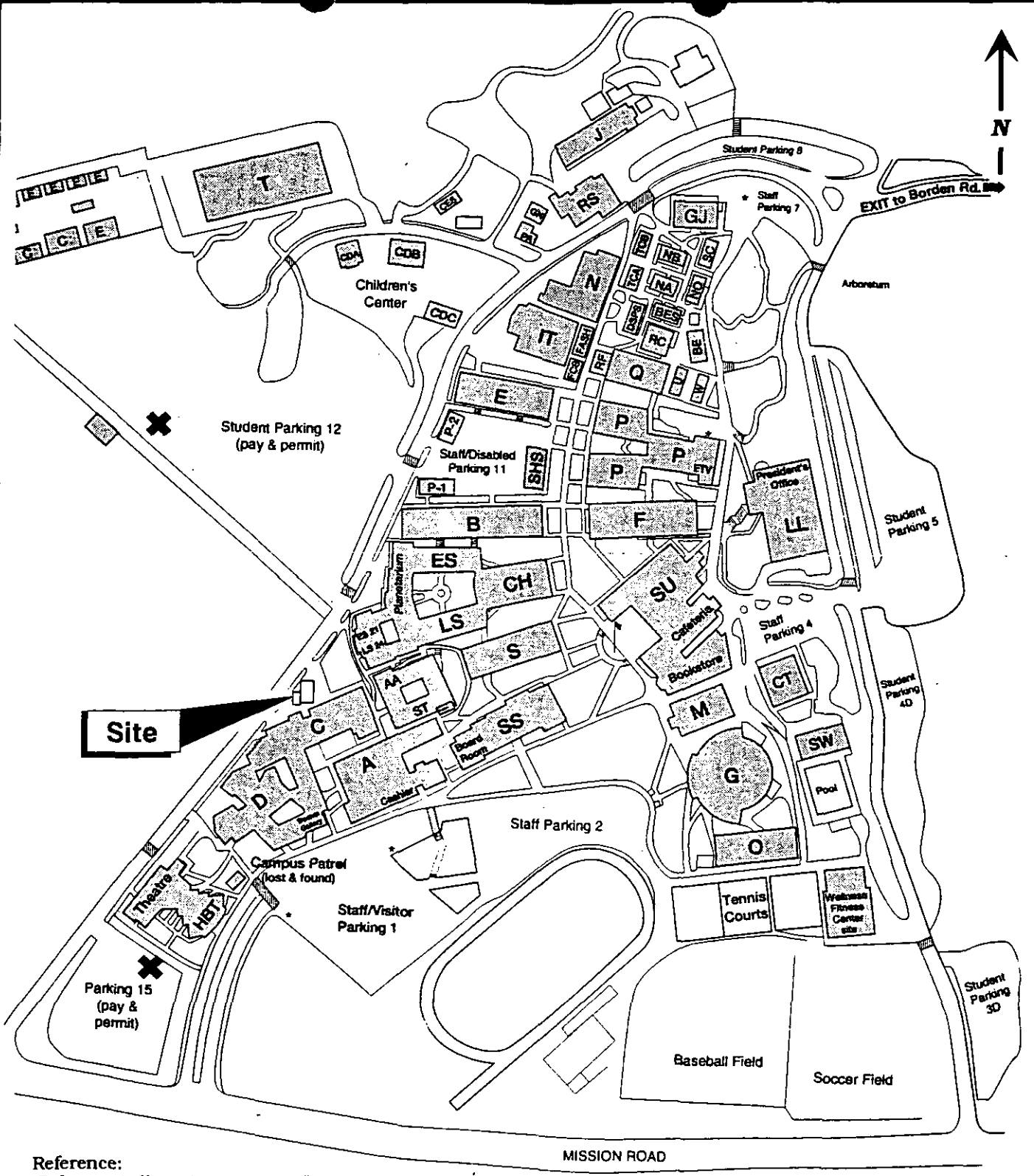
2. BTEX = benzene, toluene, ethylbenzene, and xylenes analyzed in general accordance with EPA Method 8020.

FIGURES



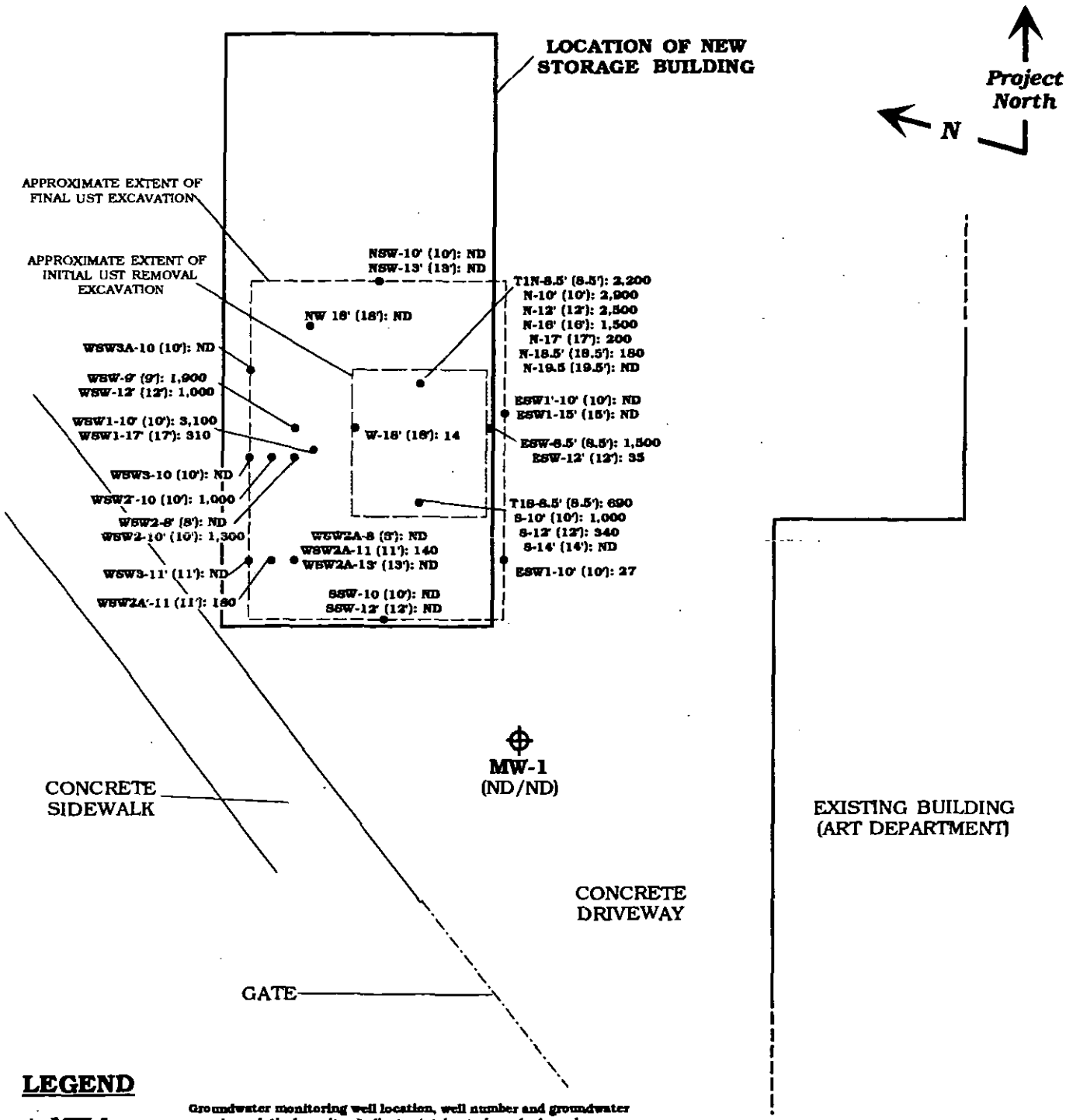
Reference:
USGS 7.5 Minute Quadrangle Map
"San Marcos, California" – 1967
Photorevised 1975
Scale 1:24,000

Environmental Business Solutions, Inc.	**Site Location Map** Palomar College 1140 West Mission Road San Marcos, California	**Project No.** **94E1196.1** **Figure 1**



Reference:
"Palomar College Campus map"
Palomar College Community
Services Seminar Schedule-Spring 1994
Note: Map not to scale

Environmental Business Solutions, Inc.	**Site Vicinity Map** Palomar College 1140 West Mission Road San Marcos, California	**Project No.** 94E1196.1 **Figure 2**



LEGEND

MW-1 (ND/ND) — Groundwater monitoring well location, well number and groundwater sample analytical results. Indicates total petroleum hydrocarbons (TPH)/benzene, toluene, ethylbenzene, xylenes (BTEX) concentrations in micrograms per liter.

SSW-10 (10'): ND
SSW-12' (12'): ND — Excavation soil sample location. Indicates sample number, depth in feet below grade and TPH concentration in milligrams per kilogram.

ND = not detected above laboratory method detection limits.

Approximate Scale in Feet
0 10 20

Disclaimer: This figure is an interpretation based on available data. Actual conditions may differ. All locations and dimensions are approximate.

Environmental Business Solutions, Inc.	**Monitoring Well Location Map with groundwater sampling results** Palomar College 1140 West Mission Road San Marcos, California	**Project No.** 94E1196.1 **Figure 3**

LABORATORY REPORT

teg

September 18, 1995

Mr. Barry Pulver
Environmental Business Solutions, Inc.
8799 Balboa Avenue
Suite 290
San Diego, CA 92123

SUBJECT: DATA REPORT - PALOMAR COLLEGE, SAN MARCOS - EBS PROJECT #94E1196.1

TEG Project #950911-7

Mr. Pulver:

Please find enclosed a data report for the above referenced project. The samples were analyzed in TEG's DOHS certified mobile laboratory (CERT #1667).

Project Summary

The following analyses were conducted:

- 1 water for total petroleum hydrocarbons (TPH) by DOHS Modified EPA Method 8015
- 1 water for volatile aromatic hydrocarbons (BTEX) by Modified EPA Method 8020

The samples were received chilled in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for the analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks and surrogates fulfilled quality control criteria.

TEG appreciates the opportunity to provide analytical services to Environmental Business Solutions, Inc. on this project. If you have any questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Blayne Hartman

Dr. Blayne Hartman

432 NORTH CEDROS AVENUE • SOLANA BEACH, CA 92075 • 619-793-0401 • FAX 619-793-0404

ENVIRONMENTAL BUSINESS SOLUTIONS PROJECT #94E1196.1
PALOMAR COLLEGE
SAN MARCOS, CA

TEG Project #950911-7

TPH (DOHS Mod. EPA Method 8015) & BTEX (EPA Method 8020 Modified) ANALYSES OF WATERS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (ug/l)	TPH-DIESEL C12-C24 (ug/l)	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYLBENZ (ug/l)	XYLENES (ug/l)	SURROGATE (%REC)
METHOD BLANK	9/13/95	ND	ND	ND	ND	ND	ND	110%
MW-1	9/13/95	ND	ND	ND	ND	ND	ND	80%
MW-1 DUP	9/13/95	ND	ND	ND	ND	ND	ND	80%
DETECTION LIMITS (ug/l)		500	500	0.5	0.5	0.5	1.5	65%-135%

"ND" INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. HERMON ATKINSON
DATA REVIEWED BY: MR. MARK MASINO

teg

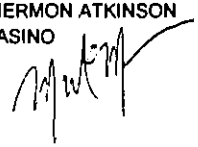
QA/QC REPORT - CALIBRATION DATA

TEG Project #950911-7
DAILY CALIBRATION DATE : 9/13/95

			INITIAL	INITIAL		OPENING			CLOSING / LCS		
COMPOUND	DETECTOR	CALIB RANGE	CALIB DATE	RF	%RSD	AREA	RF	%DIFF	AREA	RF	%DIFF
TPH GASOLINE	FID #1	660 - 66,660	6/16/95	0.557	7.5%	371	0.618	11.1%	359	0.598	7.5%
TPH GASOLINE	FID #2	660 - 66,660	6/16/95	0.594	9.7%	384	0.640	7.7%	374	0.623	4.9%
TPH DIESEL	FID #1	1,667-166,650	7/10/95	0.278	7.3%	430	0.287	3.8%	428	0.285	3.3%
TPH DIESEL	FID #2	1,667-166,650	7/10/95	0.268	9.7%	416	0.277	3.4%	425	0.283	5.6%
BENZENE	PID #1	1.7 - 666.6	9/13/95	108.49	10.8%	367	122.37	12.8%	342	114.00	5.1%
TOLUENE	PID #1	1.7 - 666.6	9/13/95	94.52	5.7%	258	85.87	9.1%	237	79.07	16.3%
ETHYLBENZENE	PID #1	1.7 - 666.6	9/13/95	81.34	9.8%	208	69.38	14.7%	196	65.38	19.6%
m&p-XYLENES	PID #1	1.7 - 666.6	9/13/95	92.46	15.0%	479	79.78	13.7%	449	74.89	19.0%
o-XYLENES	PID #1	1.7 - 666.6	9/13/95	70.54	14.2%	181	60.25	14.6%	180	59.92	15.0%

CALIB RANGE - RANGE OF CALIBRATION CURVE IN UG/L
INITIAL RF - AVERAGE RESPONSE FACTOR FROM MULTIPOINT CALIBRATION CURVE
% RSD - LINEARITY OF MULTIPOINT CALIBRATION CURVE (+/- 20% ACCEPTABLE LIMITS)
AREA - AREA COUNTS FROM DAILY CALIBRATION STANDARD
RF - DETECTOR RESPONSE FACTOR FROM MID-POINT CALIBRATION STANDARD
% DIFF - DIFFERENCE, IN PERCENT, BETWEEN THE AVERAGE RF AND THE OPENING OR CLOSING RF
OPENING - MID-POINT CALIBRATION STANDARD ANALYZED BEFORE SAMPLE ANALYSES BEGIN
CLOSING - MID-POINT CALIBRATION STANDARD ANALYZED AFTER SAMPLES ANALYSES ARE COMPLETE

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. HERMON ATKINSON
DATA REVIEWED BY: MR. MARK MASINO



QA/QC REPORT - MS/MSD DATA

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR WATERS

ANALYSIS DATE : 9/13/95

TEG Project #950911-7

COMPOUND	SPK CONC (ug/L)	MS CONC (ug/L)	%REC MS	MSD CONC (ug/L)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE %MS
TPH GASOLINE	2000	1803	90.2%	1926	96.3%	6.6%	15%	63% - 117%
TPH DIESEL	5000	5356	107.1%	5140	102.8%	4.1%	15%	61% - 111%
BENZENE	10.0	12.6	126.0%	13.4	134.0%	6.2%	15%	63% - 108%
TOLUENE	10.0	8.8	88.0%	9.1	91.0%	3.4%	15%	62% - 90%
ETHYLBENZENE	10.0	7.5	75.0%	7.7	77.0%	2.6%	15%	65% - 106%
TOTAL XYLENES	30.0	21.5	71.7%	22.2	74.0%	3.2%	15%	64% - 103%

SPK CONC - CONCENTRATION SPIKED INTO MATRIX
MS CONC - ANALYZED CONCENTRATION OF SPIKED SAMPLE
% REC - PERCENT RECOVERY OF SPIKE FROM MATRIX
RPD - RELATIVE PERCENT DIFFERENCE BETWEEN MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MR. HERMON ATKINSON
DATA REVIEWED BY: MR. MARK MASINO

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: ENVIRONMENTAL BUSINESS SOLUTIONS, INC.
ADDRESS: 8799 BALBOA AVE, SUITE 210, SAN DIEGO
PHONE: (619) 571-5500 FAX: (619) 571-5357
CLIENT PROJECT #: 94E1196.1 PROJECT MANAGER: BARRY PULVER

DATE: 9/9/95 PAGE 1 OF 1
TEG PROJECT #: ~~905~~ 950911-7
LOCATION: PALOMAR COLLEGE
COLLECTOR: STEVE TRUESDALE DATE OF COLLECTION: 9/9/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Number
MW-1	-	3:10	WATER	40mL VOA	X						X										4	

RELINQUISHED BY: (Signature) DATE/TIME 9/11/95 8:30AM RECEIVED BY: (Signature) DATE/TIME 9/11/95 8:30
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS
☒ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	4
CHAIN OF CUSTODY SEALS Y/N/NA	N/A
SEALS INTACT? Y/N/NA	N/A
RECEIVED GOOD COND./COLD	GOOD
NOTES:	

LABORATORY NOTES:

MF

H03452

Environmental Business Solutions, Inc.
"Providing Economic Environmental Solutions to the Business Community"

JUN 30 1 24 PM '95

ENVIRONMENTAL HEALTH SERVICES

June 27, 1995
Project Number: 94E1196.1

Copy No. 3

Mr. Bryant Guy
Contract Manager
Palomar Community College
1140 West Mission Road
San Marcos, California 92069

RE: Report of Groundwater Assessment Activities Performed Pursuant to the Requirements of the San Diego County Site Assessment and Mitigation Division (SAM) at the Palomar College Art Department Storage Area, 1140 West Mission Road, San Marcos, California (Site)

Dear Mr. Guy:

Environmental Business Solutions, Inc. (EBS) is pleased to present this letter report (Report) summarizing the results of the groundwater assessment (Assessment) performed at the above-described Site (Figures 1 and 2). The Assessment was conducted by EBS in response to your request and authorization, and in general accordance with Exhibit "1" to the Consulting Agreement (Contract) between EBS and Palomar Community College (Client). The Contract was fully executed on April 8, 1994.

Because your full understanding of this Assessment is important to us, we recommend you read the Report in its entirety. However, if time does not allow you a complete reading, an appropriate level of summary may be found by referring to the "Findings" and "Conclusions" beginning on Page 9.

BACKGROUND

It is our understanding that one underground storage tank (UST) reportedly used to store gasoline was removed from the Site by ACE Excavating and Environmental Services (ACE). It is our understanding that the UST removal was part of a Site improvement project being performed at the college and that a structure was built over the location of the former UST. The UST was reported to have a 1,000-gallon capacity.

At the time of the UST removal, two soil samples were collected from beneath the UST as directed by Ms. Johanna Barry of the San Diego County SAM. The samples were collected at a reported depth of approximately 8.5 feet below grade. The soil samples were tested by Mobile One Laboratories,

Inc. (MOL) for total petroleum hydrocarbons (TPH) as gasoline in general accordance with the California Department of Health Services Leaking Underground Fuel Tank (CA DOHS LUFT) Method. The samples had reported TPH concentrations of 690 milligrams per kilogram (mg/kg) and 2,200 mg/kg. Additional soil samples were then collected by ACE at approximate depths of 10 and 12 feet below grade. Soil samples collected from a depth of 12 feet below grade had reported TPH concentrations of 2,500 mg/kg (soil sample N-12') and 340 mg/kg (soil sample S-12') (Figure 3).

Prior to performing the UST removal, ACE submitted a workplan to the SAM that included the removal of up to 50 cubic yards of petroleum hydrocarbon-bearing soil. Due to the difficulty of excavation below 12 feet with the available equipment, and an estimation, based on the laboratory test results by ACE, indicating that the volume of petroleum hydrocarbon-bearing soil was greater than 50 cubic yards, ACE ceased excavation activities and contracted with EBS to assist in over-excavation activities.

On January 3 and 4, 1994, approximately 200 cubic yards of soil was excavated by ACE. During the excavation, 30 soil samples were collected by EBS and analyzed by MOL for TPH. It is our understanding that the excavated soil was transported under manifest to the Clean Soils Facility in Bakersfield, California, for treatment and disposal. We understand that the excavation was backfilled.

The Site assessment operations performed by EBS were detailed in our Site Assessment Report dated February 7, 1994. In this report we concluded that "based on the data reviewed and obtained as part of this assessment, current regulatory guidelines, and our experience, in our professional judgement and opinion we have made the following conclusions:

- The Site is located on an alluvial fan. The types of geologic material encountered in the upper five feet generally consist of fill and residual soil. Bedrock at the site generally consists of a moderately fractured granodiorite. This material was observed to be very dense with near-vertical fractures.

- The horizontal and vertical extent of petroleum hydrocarbon-bearing soil has been assessed. Approximately 350 tons of petroleum hydrocarbon-bearing soil has been removed from the site and transported to the Clean Soils Facility.

- There is a low likelihood that petroleum hydrocarbon-bearing soil remains at the Site."

We also recommended that the report be submitted to the SAM for review with the recommendation that the SAM consider the case for closure. Upon review of the report issued by EBS, the SAM determined that further information/work is required to assess the groundwater conditions at the Site.

Groundwater was not observed in the former UST excavation which extended to a maximum depth of approximately 19.5 feet below grade. Typically, it is our experience that in areas of similar geology (fractured, unweathered granitic rock overlain by weathered granitic rock and residual soil), groundwater is generally encountered as a shallow perched water table within the alluvial soil along the top of the granitic rock, and/or as a deep fractured rock aquifer within the granitic rock. We did not observe a shallow perched water table at this Site.

A well search was conducted in order to assess groundwater depths as observed in groundwater monitoring wells located in the general vicinity. Mr. Corey Walsh of the Regional Water Quality Control Board was contacted. Mr. Walsh provided EBS with data for two wells located within 1,500 and 11,000 feet of the Site, respectively. The depth to groundwater varied between approximately 4 to 32 feet below grade. A brief summary of these two locations is provided below:

- The wells at 1329 W. Mission Avenue are located within 1,500 feet of the Site. The depth to water at the 1329 W. Mission Avenue property is approximately 4 feet below grade. Based on the interpreted geology of this location, the observed groundwater may be a perched water table overlying granitic rock.

- The wells at 622 E. Mission Avenue are located within 11,000 feet of the Site. The depth to water at this location is reported to be 32 feet below grade. It should be noted that the interpreted geology at this location is similar to the Site (i.e., alluvial fan). Therefore, it was our opinion that the depth to water at this location would be similar to the depth to water at the Site.

Because of the groundwater information presented above, the well was intended to be drilled to an approximate depth of 50 feet below grade.

OBJECTIVE

The objective of the proposed scope of services was to assess the likelihood that the shallow groundwater near the former UST has detectable concentrations of petroleum hydrocarbons.

SCOPE OF SERVICES

The scope of services used to meet the objective included the following tasks:

- **Workplan and Site Health and Safety Plan Preparation, Groundwater Monitoring Well Design and Permitting; and**
- **Installation, Monitoring, Purging, and Sampling of One Groundwater Monitoring Well.**

Workplan and Site Health and Safety Plan Preparation, Groundwater Monitoring Well Design and Permitting

Workplan

Pursuant to SAM requirements, a workplan is required for site assessment activities. For this reason, a written workplan which was intended to satisfy SAM requirements was prepared and submitted to the SAM. The workplan described the procedures to be utilized in the field Assessment, including the type of laboratory analyses to be performed on the collected groundwater samples, and groundwater sample collection methods. The workplan was submitted to Ms. Johanna Barry of the SAM on April 4, 1994. Ms. Barry approved the workplan on April 19, 1994. A copy of the Workplan is included in the Appendix.

Health and Safety Plan

A health and safety plan for the Site was prepared to reflect the work scope. A health and safety plan for work conducted at the Site and workers within the "exclusion" zone is required pursuant to the regulations found in 29 Code of Federal Regulations (CFR) Part 1910.120. As such, a health and safety plan was prepared which outlined the potential chemical and physical hazards that could have been encountered during drilling and sampling activities. The appropriate personal protective equipment and emergency response procedures for the site-specific chemical and physical hazards were detailed in this plan. EBS and contracted personnel involved with the proposed field work were required to sign this document in order to encourage proper health and safety practices.

Monitoring Well Permit

Prior to installation of the groundwater monitoring well, the monitoring well was designed and a well permit application and required fee were submitted to the SAM for approval. The permit reflected monitoring well design and

completion in accordance with California Department of Water Resources and San Diego County requirements. The permit was signed by the appropriately licensed professional and submitted with the required fee to the SAM. The monitoring well permit was approved on May 19, 1994, by Ms. Mary Peters of the SAM. A copy of the approved monitoring well permit is included in the Appendix.

Underground Utility Search and Markout

Prior to performing fieldwork, as required by state law, EBS notified Underground Service Alert (USA). USA contacted agencies and businesses that may have underground utilities in the area, so that they could "clear" the proposed well location. In addition, a private utility locating service was also used to survey the proposed well location for underground utilities.

Installation, Monitoring, Purging, and Sampling of One Groundwater Monitoring Well

Scheduling

After approval of the workplan, preparation of the health and safety plan, notification of USA, and coordination with the drilling subcontractor, EBS prepared and scheduled for the installation and sampling of one groundwater monitoring well on May 19, 1994. During the pre-field work Site visit to mark the drilling location for underground utility clearance, a significant amount of construction activity was occurring in the area of the proposed drilling. The proposed well location was inaccessible due to the presence of building materials and construction supplies. Based on subsequent conversations with Ms. Kelly MacIssac, Safety Officer, and Mr. Mike Ellis, Facilities Director for Palomar Community College, we understood that construction of new facilities, including the repaving of the proposed well location, was scheduled.

It should be noted that the well was proposed to be installed in a paved area and that the well completion was intended to be a traffic-rated, flush-mounted road box. After the existing asphalt paving had been removed from the proposed well location, it was necessary to wait until the area was repaved in order to install a well with a flush-mounted road box (as opposed to a monument-type well). Based on our conversations with Mr. Ellis and Ms. MacIssac, we understood at that time that the construction and repaving of the area was scheduled for completion within 60 to 90 days. In order to avoid unnecessary complications and additional costs in installing the well, and possibly having to demolish and rebuild the well head after the area was repaved, the well installation activities were postponed until the completion of the paving planned for the proposed well location.

Based on our telephone conversations with Ms. MacIssac on August 8, 1994, we understood that the paving of the proposed well location was tentatively scheduled for the week of August 15 to 19, 1994. On August 12, 1994, we rescheduled with the drilling and concrete cutting subcontractors for the installation of the well for September 6, 1994, as our well installation permit was valid until September 15, 1994. Based on our conversations with Ms. MacIssac on August 23, 1994, we understood that the construction activities, including the paving, were rescheduled and we would be notified as to an updated paving completion date.

On September 9, 1994, EBS submitted a monitoring well installation permit extension, along with the required fees, to the SAM. An extension was granted by Ms. Mary Peters of the SAM until January 12, 1995.

On September 21, 1994, we were notified, in a letter from you, that Mr. Bruce Burton, the construction manager for the construction at the college, anticipated the paving of the proposed monitoring well location some time after September 30, 1994. On October 10, 1994, during a teleconference between EBS personnel and Mr. Burton, the anticipated construction schedule was discussed. Mr. Burton indicated that, at that time, he anticipated that the paving of the proposed well location was to take place within approximately 7 to 10 days and that he would contact EBS upon completion of the construction activities in order to facilitate well installation scheduling.

After completion of construction activities in the area of the proposed monitoring well in November 1994, EBS coordinated with subcontractors and scheduled the installation of the well. Because of the lack of availability of the specialized drilling equipment required to install the well, the drilling could not be scheduled until January 3, 1995. EBS notified both you and Ms. MacIssac of the proposed date of drilling.

During a preliminary Site visit to re-mark the area for USA notification, on December 31, 1994, EBS personnel were notified by personnel at the college that the proposed well location would be inaccessible on January 3, 1995 due to the scheduled installation of equipment in the new Art Department facility. The well installation was then rescheduled for February 20, 1995, the next available date for the drilling equipment. On January 18, 1995, EBS submitted a second monitoring well installation permit extension, along with the required fees, to the SAM. An extension was granted by Ms. Mary Peters of the SAM until May 18, 1995.

Tri-County Drilling's Canterra CT-450 air-percussion drill rig was re-scheduled for February 20, 1995. USA was renotified of the new drilling date, and arrangements were made with other subcontractors such as the private underground utility locating service, the concrete cutting company, and the wellhead installation company.

Well Installation

On Saturday, February 20, 1995, EBS and the subcontractors involved in the well installation mobilized to the Site. Access to the drilling area was provided by Mr. Ellis, the Palomar College Facilities Director. Prior to drilling, a 3-foot by 3-foot section of concrete was sawcut and removed by San Diego Concrete Cutting, Inc., to provide access for the drill rig and the well head. One groundwater monitoring well was installed adjacent to and in the vicinity of the former UST excavation. The well placement was designed to facilitate the assessment of the possible impact to groundwater from the former UST.

Based on groundwater depths of between approximately 30 to 35 feet below grade reported in the vicinity, we anticipated that the soil boring in which the well was to be installed would be drilled to a maximum depth of approximately 50 feet below grade.

After drilling to an approximate depth of 50 feet below grade, the drilling equipment was removed from the soil boring and a Keck groundwater depth probe was lowered into the boring to check for depth to groundwater. After a wait of approximately 45 minutes to allow groundwater to recharge the soil boring, no indication of groundwater was noted by the depth probe. Drilling was continued and occurrence of groundwater was again checked for at approximately 65 feet below grade. After removal of the drilling equipment from the boring and another wait, no indication of groundwater was noted by the depth probe.

At this time, Mr. Ellis was notified of the drilling progress. It was discussed that while groundwater had yet to be encountered, the drilling had gone more rapidly than was anticipated, and a depth of approximately 65 to 70 feet below grade had been reached. Because the drilling had taken place on a Saturday to minimize hazards for college employees and students, we were unable to contact the SAM to inquire whether a deeper well was necessary, since no groundwater was encountered to a depth of approximately 65 to 70 feet. Since the proposed drilling time had not been exceeded, it was decided to continue drilling at least until the proposed budget had been reached.

Drilling was continued to a depth of approximately 85 feet below grade when recovered cuttings were noted to be saturated. The soil boring was continued to an approximate depth of 100 feet below grade. After the drilling equipment was removed from the soil boring, depth to groundwater was checked and measured at approximately 80 feet below grade.

One groundwater monitoring well (MW-1) was installed. Fractured granitic rock was interpreted to be present below depths of approximately 15 to 20

feet. As groundwater was not encountered until approximately 85 feet below grade, it was decided to construct the well using 4-inch polyvinyl chloride (PVC) screen in the lower 40 feet of the well and 55 feet of blank casing to complete the well. The well was set at approximately 95 feet below grade. A sand filter pack was placed around the casing up to a depth of approximately 50 feet below grade. Hydrated bentonite was placed around the casing up to approximately 3 feet below grade. The surface completion consisted of a flush-mounted, traffic-rated road box in general accordance with SAM guidelines. A well log including a well construction detail is included in the Appendix.

After the sand pack was placed and before bentonite was poured, the well was developed by using a surge block. After the well development was completed, additional sand was placed, as needed, and bentonite was placed above the sand and hydrated in general accordance with the manufacturer's recommendations. After well development, the depth to groundwater was again measured with the depth probe. Approximately two hours after the well was set, the depth to groundwater was measured at approximately 70 feet below grade.

Soil Sampling

Soil sampling was not conducted during the drilling operations pursuant to the approved workplan. Soil cuttings were used for descriptive purposes.

Soil cuttings generated from drilling of the boring were placed in 55-gallon drums, labeled, and left on-site. Approximately six drums were used to store the soil cuttings. Because soil disposal was not part of the contracted scope of services, disposal will be handled by the Client.

To characterize the soil cuttings for disposal, one soil sample was collected from each of the drums with a stainless steel trowel and packed into a laboratory-supplied glass sample jars. The sample jar lids were tightly closed and taped for security. Each sample was given a unique number corresponding to the drum from which it was collected. The sample containers were packed in an ice-filled cooler for transport to the laboratory. Chain-of-custody procedures were implemented for sample tracking. A written analytical report was provided by the laboratory upon the completion of the sample testing. All tools used in the collection of samples were precleaned in an Alconox-water solution followed by two tap water rinses and a final deionized water rinse to reduce the possibility of a "false positive" or cross-contaminating the samples.

Each sample was analyzed by Transglobal Environmental Geochemistry (TEG) a state-certified environmental laboratory, for TPH in general accordance with modified EPA Method 8015. None of the samples were

reported to contain detectable concentrations of TPH. One sample was also analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) in general accordance with EPA Method 8020, and was reported by TEG to have no detectable concentrations of BTEX. Laboratory results are presented in Table 1 and the laboratory report is included in the Appendix.

Well Sampling

On April 6, 1995, the well was monitored, purged, and sampled. The well was monitored with an electronic interface probe, which is reported to be capable of detecting both water and free product. In addition, a bailer was lowered into the well to visually assess the presence of free product. Free product was not observed in the bailer or detected by the interface probe. The well was purged with a submersible pump. All downhole sampling and monitoring equipment was cleaned with a four-bucket wash consisting of an Alconox-water solution, two tap rinses, and a final rinse with a deionized water sprayer. Decontamination water was placed in drums, labeled, and left on-site.

Depth to water was measured at approximately 10 feet below grade. One borehole volume of water was calculated to include water in the casing above the filter sand pack. Approximately 3 borehole volumes (200 gallons) of water was removed and placed in drums, labeled, and left on-site. Since the depth to groundwater had not reached 80 percent of its static level after two hours, a water sample was collected with a disposable bailer. The water sample was decanted into laboratory-supplied containers, capped, labeled, and placed in an ice-filled cooler. Chain-of-custody procedures were implemented for sample tracking. The sample was delivered to TEG for analysis.

The water sample was tested for TPH in general accordance with modified EPA Method 8015, and for BTEX in general accordance with EPA Method 8020. No detectable concentrations of TPH or BTEX were reported by TEG. Laboratory results are presented in Table 2 and Figure 3. The laboratory report is included in the Appendix.

FINDINGS

Geology

Soil and rock were encountered during well installation. Clayey sand interpreted to be fill soil was encountered to an approximate depth of 4 feet below grade. Weathered igneous rock was encountered below the fill to an approximate depth of 20 feet below grade. At approximately 20 feet below grade, drilling became much more difficult. Unweathered igneous rock was

interpreted to occur below approximately 20 feet below grade. In general, drilling became slower and more difficult with depth. A well log indicating the types of soil and rock interpreted to be encountered is included in the Appendix.

Hydrogeology

It is interpreted that groundwater at the Site is confined to fractured zones of the unweathered igneous rock. Groundwater was initially measured at approximately 85 feet below grade. Groundwater was measured at approximately 10 feet below grade during sampling. It is our opinion that groundwater at the Site occurs under confined conditions and the elevation of groundwater observed in the well, or total head, represents both elevation head and pressure head. Therefore, the observed potentiometric surface measured in the well does not, in our opinion, represent a water table in an unconfined water-bearing unit. This interpretation is based on the following:

- At no time was groundwater or saturated material observed during the excavation activities which extended to a depth of approximately 19.5 feet below grade.

- Saturated conditions were only observed during the drilling of MW-1 below a depth of approximately 85 feet below grade.

Laboratory Test Results

One groundwater sample, MW1, was collected and transported to TEG for analysis. The sample was tested for TPH in general accordance with modified EPA Method 8015, and for BTEX in general accordance with EPA Method 8020. No detectable concentrations of TPH or BTEX were reported by TEG.

CONCLUSIONS

Based on the analytical results reported by TEG, the following conclusions have been drawn:

- Niether TPH nor BTEX constituents were detected above laboratory method detection limits in the groundwater sample collected from monitoring well MW1.

- TPH was not detected above laboratory method detection limits in the soil samples collected from the drummed soil cuttings.

- BTEX constituents were not detected above laboratory method detection limits in the one soil sample analyzed for BTEX from the soil samples collected from the drummed soil cuttings.

RECOMMENDATIONS

The following recommendations are made based on the data, findings and conclusions presented in this Report and our professional experience:

- The SAM consider the approval of the use of the drummed soil cuttings for on-site fill.
- An additional round of groundwater monitoring and sampling be conducted to include the collection of one groundwater sample and analysis for TPH and BTEX.

It has been a pleasure working with you on this project. If you have any questions or concerns, please do not hesitate to contact our office at (619) 571-5500.

Respectfully,
ENVIRONMENTAL BUSINESS SOLUTIONS, INC.

Barry S. Pulver, CEG 1364
Principal

Daniel E. Johnson
Principal

Steven R. Truesdale
Staff Geologist

cc: Ms. Johanna Barry, SAM

SRT11/94e1196.rpt

TABLES

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

TOTAL PETROLEUM HYDROCARBONS AND BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Soil samples collected on February 20, 1995

SAMPLE NUMBER	DRUM NUMBER	TPH[1]	BTEX[2]
D-1	1	ND	ND
D-2	2	ND	--
D-3	3	ND	--
D-4	4	ND	--
D-5	5	ND	--
D-6	6	ND	--

Notes:

1. TPH = total petroleum hydrocarbons analyzed in general accordance with modified EPA Method 8015.

2. BTEX = benzene, toluene, ethylbenzene, and xylenes analyzed in general accordance with EPA Method 8020.

TABLE 2

GROUNDWATER MONITORING AND SAMPLE ANALYTICAL RESULTS

TOTAL PETROLEUM HYDROCARBONS AND BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES

Groundwater sample collected on April 6, 1995

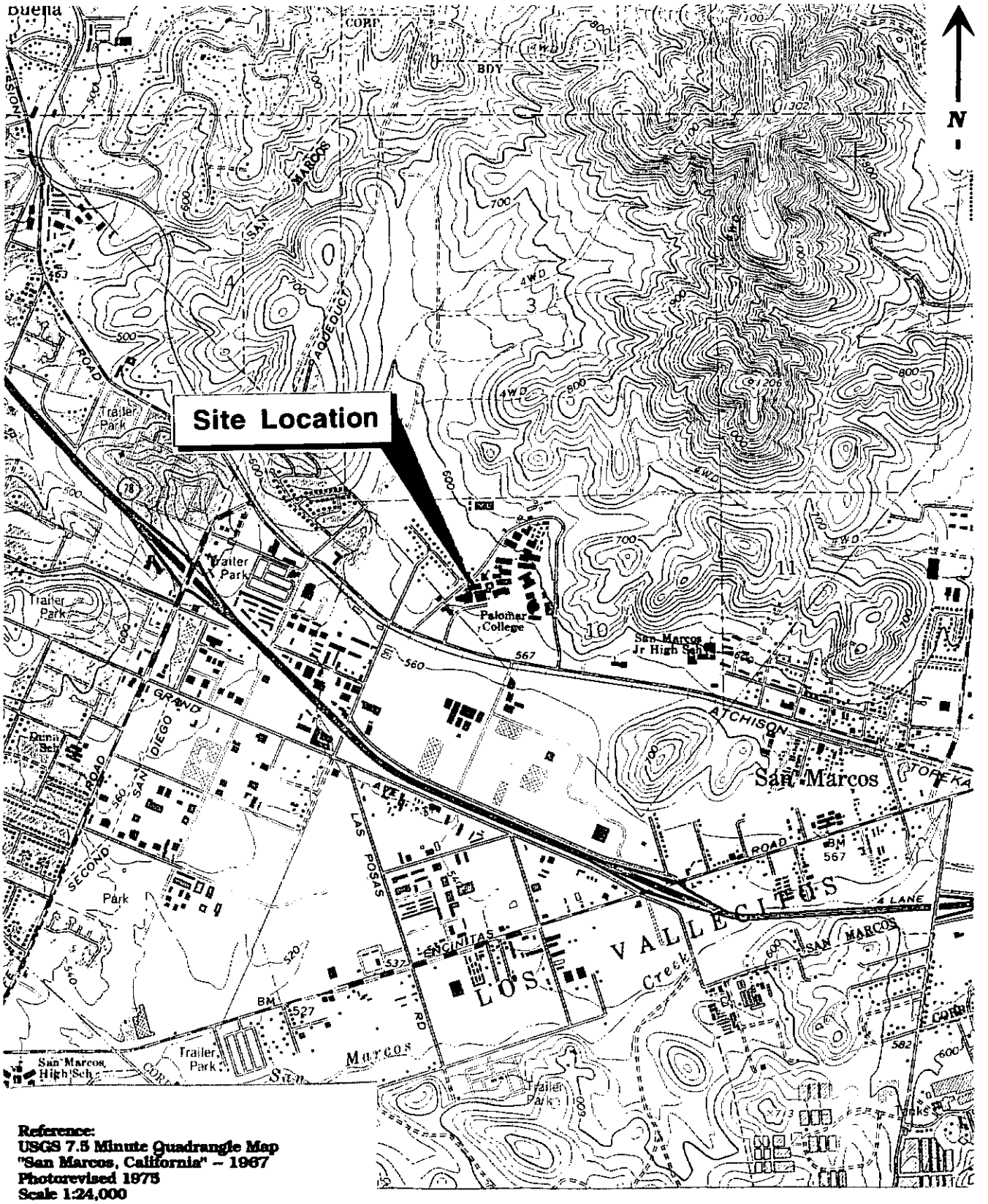
WELL NUMBER	DEPTH TO WATER (IN FEET)	TPH[1]	BTEX[2]
MW-1	9.62	ND	ND

Notes:

1. TPH = total petroleum hydrocarbons analyzed in general accordance with modified EPA Method 8015.

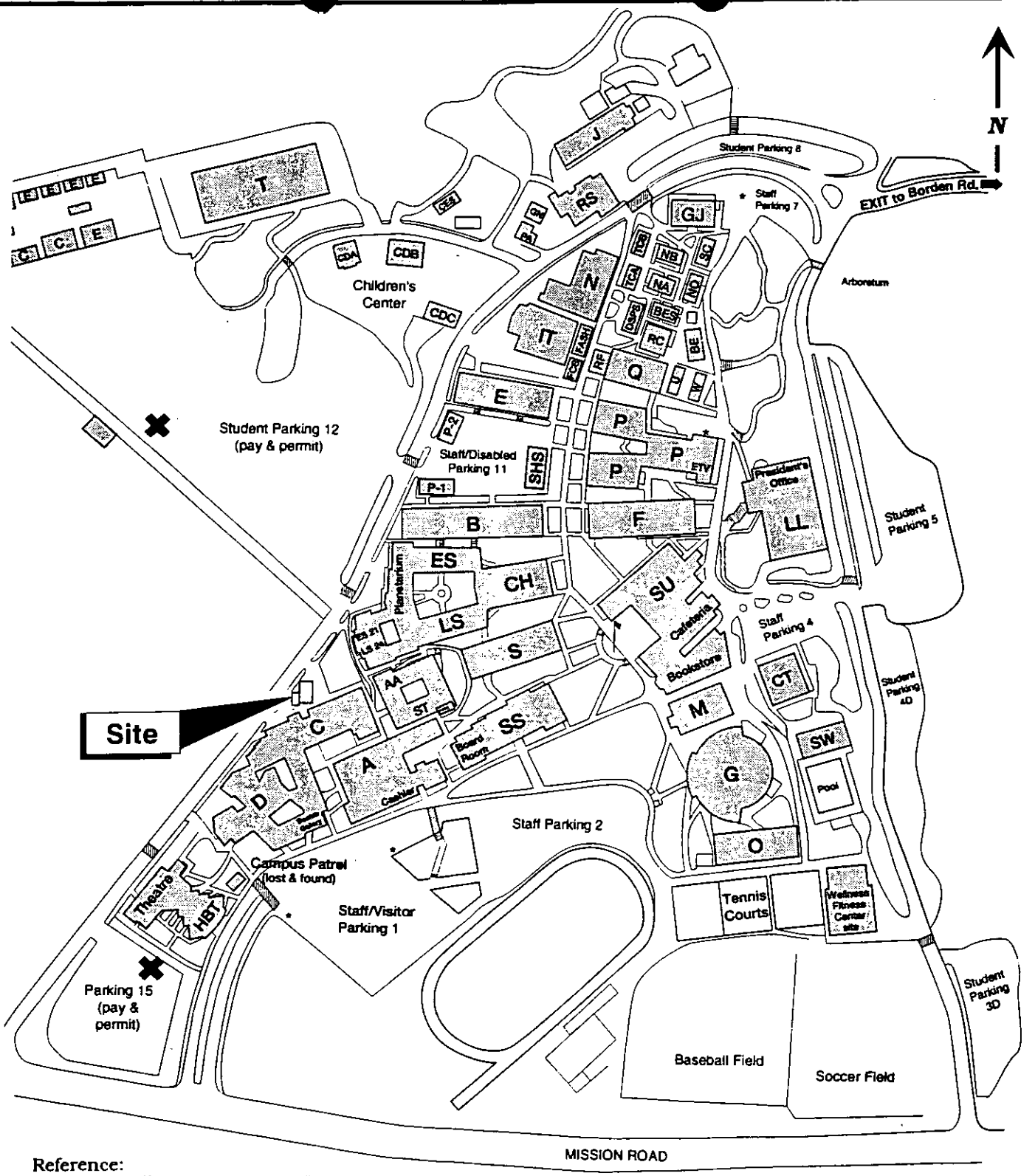
2. BTEX = benzene, toluene, ethylbenzene, and xylenes analyzed in general accordance with EPA Method 8020.

FIGURES



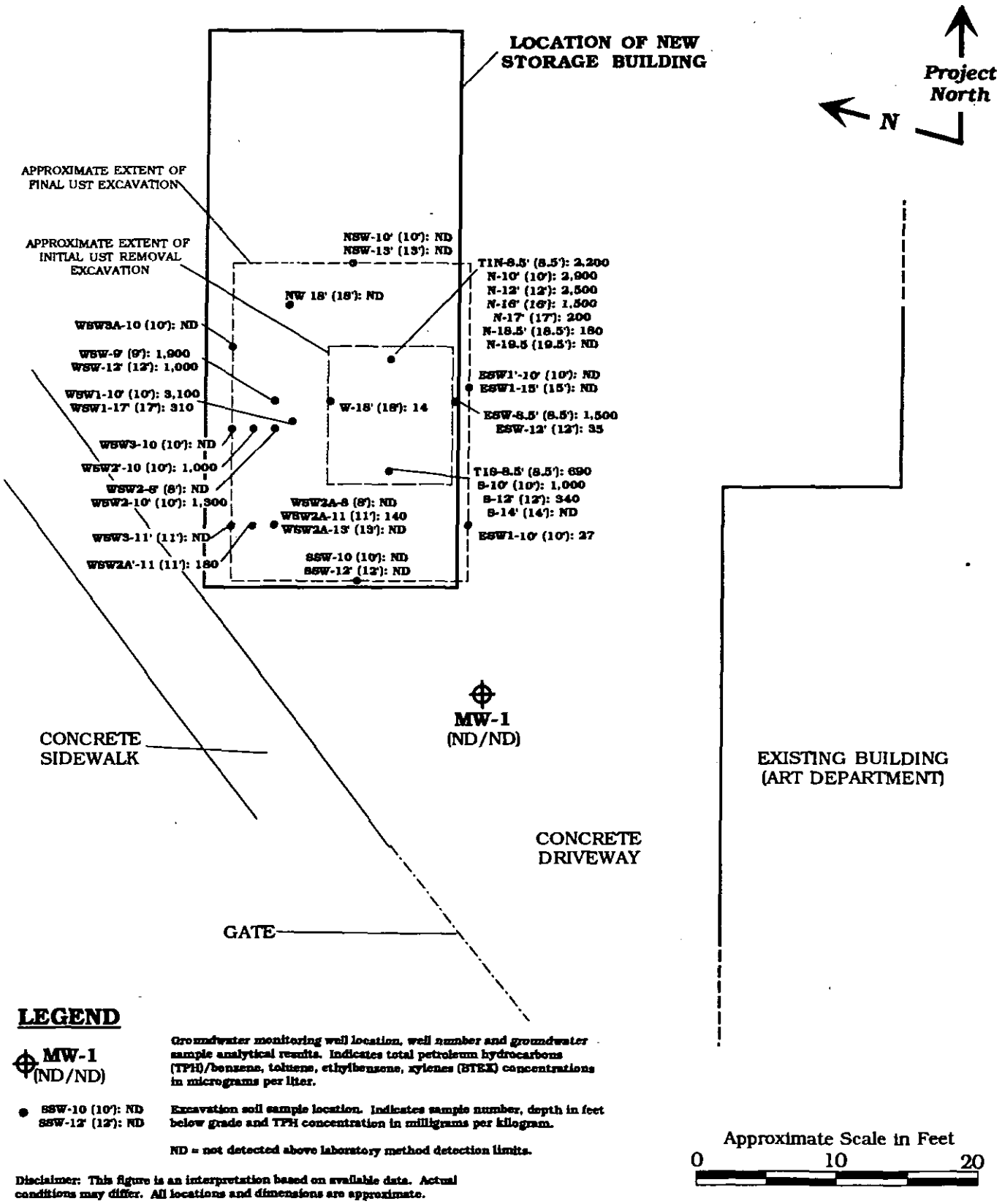
Reference:
USGS 7.5 Minute Quadrangle Map
"San Marcos, California" – 1967
Photorevised 1975
Scale 1:24,000

Environmental Business Solutions, Inc.	**Site Location Map** Palomar College 1140 West Mission Road San Marcos, California	**Project No.** **94E1196.1** **Figure 1**



Reference:
"Palomar College Campus map"
Palomar College Community
Services Seminar Schedule-Spring 1994
Note: Map not to scale

Environmental Business Solutions, Inc.	**Site Vicinity Map** Palomar College 1140 West Mission Road San Marcos, California	**Project No.** **94E1196.1** **Figure 2**



LEGEND

MW-1 (ND/ND) — Groundwater monitoring well location, well number and groundwater sample analytical results. Indicates total petroleum hydrocarbons (TPH)/benzene, toluene, ethylbenzene, xylenes (BTEX) concentrations in micrograms per liter.

SSW-10 (10'): ND
SSW-12' (12'): ND — Excavation soil sample location. Indicates sample number, depth in feet below grade and TPH concentration in milligrams per kilogram.

ND = not detected above laboratory method detection limits.

Approximate Scale in Feet
0 10 20

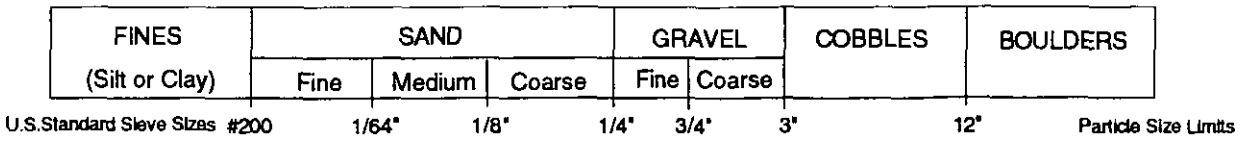
Disclaimer: This figure is an interpretation based on available data. Actual conditions may differ. All locations and dimensions are approximate.

Environmental Business Solutions, Inc.	**Monitoring Well Location Map with groundwater sampling results** Palomar College 1140 West Mission Road San Marcos, California	**Project No.** 94E1196.1 **Figure** 3

APPENDIX

MONITORING WELL LOG

Major Soil Divisions			Group Symbol	Descriptions
Coarse Grained Soils (>50 % of material is larger than No. 200 sieve.)	GRAVELS (% gravel > % sand.)	Clean Gravels (<5 % fines)	GW	*Well graded gravels, little or no fines.*
			GP	*Poorly graded gravels or gravel-sand mixtures, little or no fines.*
		Gravel With Fines (>15 % fines)	GM	*Silty gravels, gravel-sand-silt mixtures, non-plastic fines.*
			GC	*Clayey gravels, gravel-sand-clay mixtures, plastic fines.*
	SANDS (% sand ≥ % gravel.)	Clean Sands (<5 % fines)	SW	Well graded sands or gravelly sands, little or no fines.
			SP	Poorly graded sands, little or no fines.
		Sands With Fines (>15 % fines)	SM	Silty sands, sand-silt mixtures, non-plastic fines.
			SC	*Clayey sands, sand-clay mixtures, plastic fines.*
Fine Grained Soils (> 50 % of material is smaller than No. 200 sieve.)	SILTS AND CLAYS (Liquid limit is <50 %)		ML	Inorganic silts and very fine sands, rock flour, silty *or clayey fine sands or clayey silts with slight* plasticity.
			CL	Inorganic clays of low to medium plasticity, *gravelly clays, sandy clays, silty clays, lean clays.*
			OL	Organic silts and organic silty clays of low *plasticity.*
	SILTS AND CLAYS (Liquid limit is >50 %)		MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
Highly Organic Soils			Pt	Peat and other highly organic soils.



Environmental Business Solutions, Inc.

Soil Classification Legend

(Adapted from the Unified Soil Classification System - USCS)

Environmental Business Solutions, Inc.

WELL LOG

Number: MW-1

Client: Palomar Community College

Job No: 94E1196.1

Sheet: 1 of 1

EBS Rep: Steven R. Truesdale

Location: Palomar Community College, 1140 West Mission Road, San Marcos, California

Drilling Company/Driller: Tri-County Drilling/Ron

Date Drilled:	Date Drafted:	Drill Rig/Drilling Method:	Borehole Dia.:	Casing Dia.:	Surface Elevation:
2/20/95	2/27/95	Canterra CT-450/Air Percussion	8"	4"	N/A

SAMPLE LOG		BOREHOLE LOG					WELL LOG
		Drilling Feet/Min	Depth in Feet	USCS Symbol	Graphic Log	Geologic Descripton (Formation, soil type, color, grain, minor soil component, moisture, density, odor, etc.)	
			0	SC		**Fill:** Clayey sand, dark brown (7.5YR4/3), slightly moist.	
		1.0	4			**Weathered igneous rock:** Light grey (5Y 7/2).	
			8			Drillers comment at 10 feet below grade: Harder drilling encountered. Color change to yellow (2.5YR 7/5).	
			12				
			16				
			20				
		0.5	24			**Unweathered igneous rock:** Light grey to grey (5Y 6/1). Drillers comment at 20 feet below grade: Much harder drilling.	
		0.7	28				
			32				
			36				
		0.6	40				
			44				
			48				
			52				
			56				
			60				
			64				
		0.5	68				
			72				
			76				
			80				
			84			*Groundwater encountered at approximately 85 feet below grade at time of drilling.*	
		0.4	86				
			90				
			94				
			98				
			102			Soil boring terminated at approximately 100 feet below grade. Groundwater monitoring well installed at approximately 95 feet below grade.	

Logged by: Steven R. Truesdale License #: _____ Date: 6/27/95

Reviewed by: Barry S. Pulver License #: CEG #1364 Date: 6/27/95

MONITORING WELL PERMIT

94E1196.1

PERMIT # W94346
A.P.N. # 221-021-23
EST # H03452

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES

HAZARDOUS MATERIALS MANAGEMENT DIVISION

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: PALOMAR COLLEGE - ART DEPT.

SITE ADDRESS: 1140 W. MISSION ROAD, SAN MARCOS, CA 92069

PERMIT FOR: 1 GROUND WATER MONITORING WELL

PERMIT APPROVAL DATE: 5/19/94

PERMIT EXPIRES ON: 9/15/94

PERMIT CONDITIONS:

1. **PLEASE BE ADVISED THAT 10 WORKING DAYS MUST BE ALLOWED FOR MONITORING WELL PLAN CHECK.**

2. The filter pack should extend a minimum 2 feet above the top of the screen.

3. All borings must be destroyed in accordance with Department of Water Resources Bulletin 74-81 and 74-90.

4. All wash water must be contained and disposed of properly.

5. Submit complete laboratory data for both soil and groundwater with the well logs.

6. Submit all the information specified in the SA/M Manual in:
   Section 1, C., 4., c).

7. All water and soil that is placed in drums must be labeled and stored as specified in the SA/M Manual in:
   Section 1, C., 5.

8. This office must be given 48 hour notice of any drilling activity on this site. Please contact Edward Sanko at (619)338-2339.

9. This office must be given advanced notification of drilling cancellation. Please contact Edward Sanko at (619)338-2339.

NOTE: *This permit does not constitute approval of a workplan as defined in Section 2722 of Article 11 of C.C.R. Title 23. Workplans are required for all unauthorized release investigations in San Diego County.*

APPROVED BY: Mary Sitts DATE: 5/19/94

Notified: EDS 5/19/94

PERMIT APPLICATION FOR GROUND WATER AND VADOSE MONITORING WELLS

ASSESSORS PARCEL NO. ~~N/A - SCHOOL~~	PROPOSED DRILLING DATE	NO. OF WELLS TO CONSTRUCT / DESTROY
2 2 1 1 – 0 2 1 1 – 2 1 3	5/19/94	ONE

SITE NAME: PALOMAR College - ART DEPT

SITE ADDRESS (STREET / CITY / ZIP): 1140 W. MISSION Rd, SAN MARCOS, CA 92069

PROPERTY OWNER (NAME): C/o Ms Kelley MacIssac — **PHONE NO.** (619) 744-7803 X2772

MAILING ADDRESS (STREET / CITY / ZIP): 1140 W. MISSION Rd, SAN MARCOS, CA 92069

DRILLER (NAME): TRI-COUNTY DRILLING, INC. — **LICENSE NO.** C57-547737 — **PHONE NO.** (619) 484-9775

MAILING ADDRESS: 9921 Carmel Mountain Road, Suite 265 — **CITY** San Diego, CA — **ZIP** 92129

REGISTERED GEOLOGIST/ENGINEERING GEOLOGIST/CIVIL ENGINEER (RG/CEG/RCE): BARRY S. PULVER — **REG #** CE61364 — **PHONE NO.** (619) 571 5500

MAILING ADDRESS (STREET / CITY / ZIP): EBS 8799 BALBOA Av. Suite 240, SAN DIEGO, CA 92123

BOND POSTED BY DRILLER: [x] YES [ ] NO

TYPE OF WELL: [x] GROUND WATER [ ] BORING [ ] VADOSE [ ] OTHER ______

DRILLING METHOD: [ ] AUGER [ ] AIR ROTARY [ ] MUD ROTARY [x] PERCUSSION [ ] OTHER ______

MATERIALS TO BE USED

CASING
- TYPE: PVC
- GAUGE: SCH 40
- DIAMETER: 4 inch
- WELL SCREEN SIZE: 0.020
- FILTER PACK Specify: #3 SAND

SEAL
- [ ] NEAT CEMENT
- [x] CEMENT & BENTONITE
- [ ] OTHER ______

PROPOSED CONSTRUCTION SEE comments — Estimated ground water depth 30+ ft

		TO	
CEMENT SEAL	0	TO	3
BENTONITE SEAL	3	TO	19
FILTER PACK	19	TO	50
PERFORATION	20	TO	50

NOTE: For wells with multiple completion attach a well construction diagram

I hereby agree to comply with all regulations of Department of Health Services and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction and destruction.

DRILLER SIGNATURE: [signature] — DATE: ~~5/03/94~~ 5/3/94

Within 30 days of well completion, I will furnish the Department of Health Services with a complete and accurate well log. I will certify the design and construction of the well in accordance with the permit application.

RG/CEG/RCE SIGNATURE: [signature] — DATE: 5/3/94

DISPOSITION OF APPLICATION [x] APPROVED [ ] DENIED

CONDITIONS: Refer to attached conditions

HEALTH OFFICER: [signature] — DATE: 5/19/94

OFFICE USE ONLY JFB

NUMBER OF WELLS TO BE CONSTRUCTED 1 X $150.00 = $ 150.00 AMOUNT DUE — ESTABLISHMENT # H03452

CHECK NO. 2936 - 5/11/94 DATE 5/11/94 PROCESSED BY EA — PERMIT # WM346

PERMIT APPLICATION SUPPLEMENT

GROUND WATER AND VADOSE MONITORING WELLS

1. Well design, logging and construction must be supervised by a Geologist, Engineering Geologist or Civil Engineer who is registered or certified by the State of California.

2. Provide verification of a well Drilling C-57 license.

3. Provide a plot plan giving location of existing improvements such as structures, underground tanks, underground utilities, underground piping, and the proposed monitoring and/or observation wells.

4. What is the proposed purpose of the well?

To assess the potential impact to groundwater in the vicinity of the former fuel USTs from releases of gasoline.

The workplan to perform this phase of work was approved by Ms. Johanna Barry on April 19, 1994.

5. What procedures will be used to prevent the boring from providing an avenue to contamination during construction?

The drilling stem will be steam cleaned prior to its use. The well and surface seal will be constructed on the same day as the borehole is drilled.

6. What field procedures will be utilized to determine if contamination exists?

Procedures will include screening with a PID and visual observations.

7. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving?

Because it is our opinion that the extent of gasoline-bearing soil has been previously assessed, and that we anticipate that the material at site is dense granitics, which would limit our ability to collect representative samples, we do not plan to collect any soil or rock samples for laboratory analysis.

8. What constituents will be monitored and tested?

WATER: TPH (modified EPA Method 8015), BTEX (EPA Method 8020).

9. How will samples be transported and preserved?

Under Chain-of-Custody procedures. Samples will be transported and preserved in tightly closed containers and stored in an ice filled chest.

10. What sampling methods will be used?

Disposable bailers will be used to collect groundwater samples

11. Are you proposing a variation from the methods and/pr procedures presented in the requirements for the construction of Vadose and Ground Water Monitoring Wells (dated January 1992). If yes, specify these variations.

Yes. We will not collect soil or rock samples during drilling.

12. What procedures will be used to ensure that no contamination will be introduced by the drilling equipment?

The drill rig will be inspected for oil leaks and cleaned if deemed necessary. Augers will either be steam cleaned prior to drilling or cleaned on site using a transportable steam cleaner.

13. What methods will be used to clean sampling equipment?

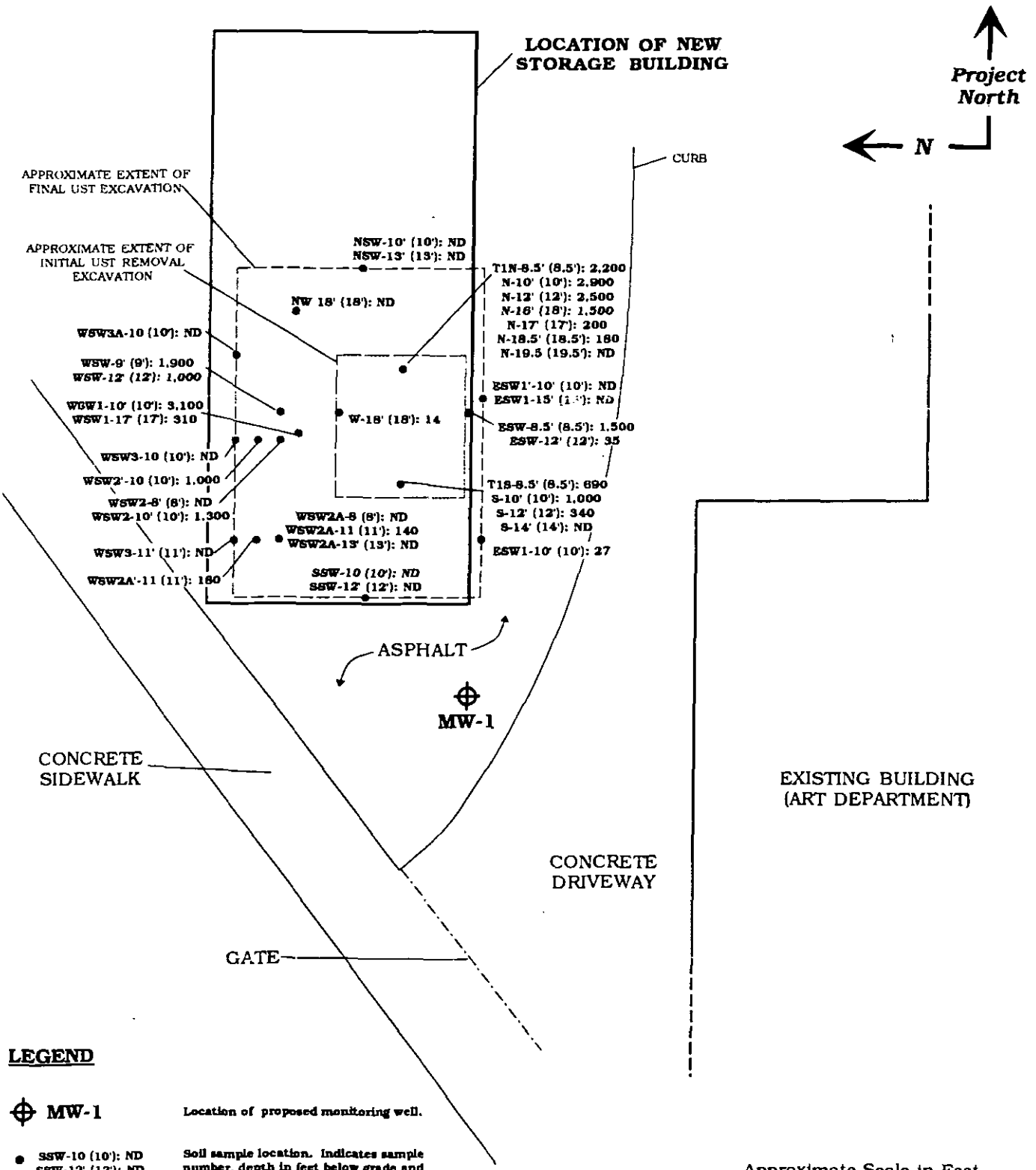
Down hole sampling equipment will be cleaned using a four bucket wash. A detergent solution will be used, followed by two tap water rinses. A final rinse using a spray of deionized water will be used.

14. What cleaning method will be used to clean casing and screen prior to installation?

Casing and screen will be delivered from the supplier in a pre-washed and plastic wrapped condition.

COMMENTS

The depth to groundwater is not known for this site. However, we anticipate that groundwater will be encountered in the upper 50 feet. We propose to drill the borehole using an air percussion drill rig to a maximum depth of 50 feet. If we encounter groundwater at a shallower depth we will terminate drilling and set the well as indicated from the field observations.



Disclaimer: This figure is an interpretation based on available data. Actual conditions may differ. All locations and dimensions are approximate.

Environmental Business Solutions, Inc.	**Site Plan** Palomar College San Marcos, California	**Project No.** 94E1196.1 **Figure** 3

Environmental Business Solutions, Inc.
"Providing Economic Environmental Solutions to the Business Community"

September 9, 1994
Project Number: 93E1196.1

Well Permitting Clerk
County of San Diego
Department of Health Services
Environmental Health Services
Site Assessment and Mitigation Division
Post Office Box 85261
San Diego, CA 92138-5261

RE: **Monitoring Well Permit Number W34396**

Well Permitting Clerk:

As per our discussion on September 1, 1994 regarding an extension on the expiration date of the above-referenced monitoring well permit, please find enclosed check number 2977 in the amount of $25.00 for the processing fee associated with an extension request.

As discussed, EBS has been unable to schedule the well installation due to ongoing construction activities in and around the proposed well location.

A copy of the approved well permit is also enclosed. If you have any questions or concerns, please do not hesitate to contact our office at (619) 571-5500.

Respectfully,
ENVIRONMENTAL BUSINESS SOLUTIONS, INC.

Steven R. Truesdale
Assistant Staff Geologist

SRT7/94E11961.ltr

8799 Balboa Avenue • Suite 290 • San Diego, California 92123 • Tel. (619) 571-5500 • Fax (619) 571-5357

RECEIVED

SEP 19 1994

Solutions, Inc.

W94346
APN. 221-021-23

********** W E L L P E R M I T E X T E N S I O N **

2977. 9/9/94

ASSESSOR PARCEL NUMBER: 221 - 021 - 23 - ____
ORIGINAL APPROVAL DATE: 5 / 17 / 94
PERMIT NO: W 94346

This well permit has been extended at the request of the pe

DATE OF REQUEST: 9 / 13 / 94
EFFECTIVE DATE OF EXTENSION: 9 / 15 / 94

NEW EXPIRATION DATE: 1 / 12 / 95

APPROVED BY: Mary Peters DATE: 9 / 15 / 94

JOB NUMBER 9321196.1

PERMIT # W94346

A.P.N. # 221-021-23

EST # H03452

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES

HAZARDOUS MATERIALS MANAGEMENT DIVISION

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: PALOMAR COLLEGE - ART DEPT.

SITE ADDRESS: 1140 W. MISSION ROAD, SAN MARCOS, CA 92069

PERMIT FOR: 1 GROUND WATER MONITORING WELL

PERMIT APPROVAL DATE: 5/19/94

PERMIT EXPIRES ON: 9/15/94 Record #25.= (#2477-9/9/94) for a Permit Extension on 9/13/94 -Eff

PERMIT CONDITIONS:

1. **PLEASE BE ADVISED THAT 10 WORKING DAYS MUST BE ALLOWED FOR MONITORING WELL PLAN CHECK.**

2. The filter pack should extend a minimum 2 feet above the top of the screen.

3. All borings must be destroyed in accordance with Department of Water Resources Bulletin 74-81 and 74-90.

4. All wash water must be contained and disposed of properly.

5. Submit complete laboratory data for both soil and groundwater with the well logs.

6. Submit all the information specified in the SA/M Manual in: Section 1, C., 4., c).

7. All water and soil that is placed in drums must be labeled and stored as specified in the SA/M Manual in: Section 1, C., 5.

8. This office must be given 48 hour notice of any drilling activity on this site. Please contact Edward Sanko at (619)338-2339.

9. This office must be given advanced notification of drilling cancellation. Please contact Edward Sanko at (619)338-2339.

NOTE: This permit does not constitute approval of a workplan as defined in Section 2722 of Article 11 of C.C.R. Title 23. Workplans are required for all unauthorized release investigations in San Diego County.

APPROVED BY: Mary Peter DATE: 5/19/94

Notified: EAS 5/19/94

PERMIT APPLICATION FOR
GROUND WATER AND VADOSE MONITORING WELLS

ASSESSORS PARCEL NO. ~~N/A 069004~~ 211-021-23	PROPOSED DRILLING DATE 5/19/94	NO. OF WELLS TO CONSTRUCT / DESTROY ONE

SITE NAME: Palomar College - Art Dept

SITE ADDRESS (STREET, CITY, ZIP): 1140 W. Mission Rd, San Marcos, CA 92069

PROPERTY OWNER (NAME): c/o Ms Kelley MacIssac — PHONE NO. (619) 744-1803 x2772

MAILING ADDRESS (STREET, CITY, ZIP): 1140 W. Mission Rd, San Marcos, CA 92069

DRILLER (NAME): TRI-COUNTY DRILLING, INC. — LICENSE NO. C57-547737 — PHONE NO. (619) 484-9775

MAILING ADDRESS: 9921 Carmel Mountain Road, Suite 265 — San Diego, CA — 92129

REGISTERED GEOLOGIST/ENGINEERING GEOLOGIST/CIVIL ENGINEER (RG/CEG/RCE): Barry S. Pulver — REG # CEG1364 — PHONE NO. (619) 571-5500

MAILING ADDRESS: EBS 8799 Balboa Av. Suite 240, San Diego, CA 92123

BOND POSTED BY DRILLER	TYPE OF WELL	DRILLING METHOD
[X] YES [ ] NO	[X] GROUND WATER [ ] BORING [ ] VADOSE [ ] OTHER ____	[ ] AUGER [ ] AIR ROTARY [ ] MUD ROTARY [X] PERCUSSION [ ] OTHER ____

MATERIALS TO BE USED

CASING
- TYPE: PVC
- GAUGE: SCH 40
- DIAMETER: 4 inch
- WELL SCREEN SIZE: 0.020
- FILTER PACK Specify: #3 SAND

SEAL
- [ ] NEAT CEMENT
- [X] CEMENT & BENTONITE
- [ ] OTHER ____

PROPOSED CONSTRUCTION see comments

Estimated ground water depth 30+ ft

CEMENT SEAL	0 TO	3
BENTONITE SEAL	3 TO	19
FILTER PACK	19 TO	50
PERFORATION	20 TO	50

NOTE: For wells with multiple completion attach a well construction diagram

I hereby agree to comply with all regulations of Department of Health Services and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction and destruction.

[signature] ~~5/13/94~~ 5/19/94

DRILLER SIGNATURE — DATE

011011 5/09/94 07:46 CSHR01 152208 $25.00 CHECK $25.00

Within 30 days of well completion, I will furnish the Department of Health Services with a complete and accurate well log. I will certify the design and construction of the well in accordance with the permit application.

[signature] 5/3/94

RG/CEG/RCE SIGNATURE — DATE

DISPOSITION OF APPLICATION [X] APPROVED [ ] DENIED

CONDITIONS: Refer to attached conditions

[signature] 5/19/94

HEALTH OFFICER — DATE

OFFICE USE ONLY JEB 493

NUMBER OF WELLS TO BE CONSTRUCTED 1 X $150.00 = $ 150 AMOUNT DUE — ESTABLISHMENT # H03452

CHECK NO. 296 - 5/11/94 DATE 5/11/94 PROCESSED BY [initials] — PERMIT # W194346

CHKNM: ENV BUS SOLUTIONS

Environmental Business Solutions, Inc.
"Providing Economic Environmental Solutions to the Business Community"

January 9, 1995
Project Number: 93E1196.1

Well Permitting Clerk
County of San Diego
Department of Health Services
Environmental Health Services
Site Assessment and Mitigation Division
Post Office Box 85261
San Diego, CA 92138-5261

RE: **Monitoring Well Permit Number W94396**

Well Permitting Clerk:

As per our recent discussion regarding an extension on the expiration date of the above-referenced monitoring well permit, please find enclosed check number 99 in the amount of $25.00 for the processing fee associated with an extension request.

As discussed, EBS has been unable to schedule the well installation due to ongoing construction activities in and around the proposed well location.

A copy of the approved well permit and the approved well permit extension is also enclosed. If you have any questions or concerns, please do not hesitate to contact our office at (619) 571-5500.

Respectfully,
ENVIRONMENTAL BUSINESS SOLUTIONS, INC.

Steven R. Truesdale
Assistant Staff Geologist

SRT8/94E11961.lt2

1/9 Called for ext tension
#8

8799 Balboa Avenue • Suite 290 • San Diego, California 92123 • Tel. (619) 571-5500 • Fax (619) 571-5357

ED

JAN 25 1995

Business

********** WELL PERMIT EXTENSION *********

ASSESSOR PARCEL NUMBER: 221 - 021 - 23 - ____
ORIGINAL APPROVAL DATE: 5 / 19 / 94
PERMIT NO: W 94346

This well permit has been extended at the request of the permittee.

DATE OF REQUEST: 1 / 18 / 95
EFFECTIVE DATE OF EXTENSION: 1 / 19 / 95

NEW EXPIRATION DATE: 5 / 18 / 95

APPROVED BY: Mary Peller DATE: 1 / 19 / 95

W 94346
#100
221-021-23

COUNTY OF SAN DIEGO
DEPARTMENT OF
HEALTH SERVICES

01-19-95 011011
09:21 CSHR01 166634

9141 141 429725 $25.00

CHECK $25.00

LABORATORY REPORTS

March 6, 1995

Mr. Barry Pulver
Environmental Business Solutions
8799 Balboa Avenue
Suite 290
San Diego, CA 92123

SUBJECT: DATA REPORT - PALOMAR COLLEGE, SAN MARCOS, CA - ENVIRONMENTAL BUSINESS SOLUTIONS PROJECT #94E1196.1

TEG Project #950220-9

Mr. Pulver:

Please find enclosed the data report for the above referenced project. All samples were analyzed in TEG's California DOHS certified mobile laboratory (CERT #1746).

Project Summary

The following analyses were conducted:

- 6 soils for total petroleum hydrocarbons (TPH) by DOHS Modified EPA Method 8015
- 1 soil for volatile aromatic hydrocarbons (BTEX) by EPA Method 8020

Samples were received chilled in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfilled quality control criteria. No data qualifiers (flags) apply to any of the reported data.

TEG appreciates the opportunity to provide analytical services to Environmental Business Solutions on this project. If you have any questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Sheri Hartman

Ms. Sheri Hartman
President

ENVIRONMENTAL BUSINESS SOLUTIONS
PROJECT #94E1196.1
Palomar College
San Marcos, CA

TEG Project #950220-9

TPH (DOHS Mod. EPA Method 8015) & BTEX (EPA Method 8020) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZ (mg/kg)	XYLENES (mg/kg)
METHOD BLANK	02/27/95	ND	ND	ND	ND	ND	ND
D-1	02/27/95	ND	ND	ND	ND	ND	ND
D-2	02/27/95	ND	ND	--	--	--	--
D-3	02/27/95	ND	ND	--	--	--	--
D-4	02/27/95	ND	ND	--	--	--	--
D-5	02/27/95	ND	ND	--	--	--	--
D-6	02/27/95	ND	ND	--	--	--	--
D-6 DUP	02/27/95	ND	ND	--	--	--	--
DETECTION LIMITS		10	10	0.050	0.050	0.050	0.050

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

QA/QC DATA - MATRIX SPIKE ANALYSIS

Spiked Conc.	02/27/95	200	500	1.000	1.000	1.000	3.000
Measured Conc.		190	505	0.845	0.739	0.817	2.558
% Recovery		95.0%	101.0%	84.5%	73.9%	81.7%	85.3%
Spiked Conc.	02/27/95	200	500	1.000	1.000	1.000	3.000
Measured Conc.		183	556	0.869	0.720	0.824	2.658
% Recovery		91.5%	111.2%	86.9%	72.0%	82.4%	88.6%
RPD		3.8%	9.6%	2.8%	2.6%	0.9%	3.8%

ACCEPTABLE RECOVERY LIMITS: 65% TO 135%

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1746)

ANALYSES PERFORMED BY: MS. WINA SEISS

DATA REVIEWED BY: MS. SHERI HARTMAN Sheri W Hartman 3/8/95

LAB ID: LAZY DAZE - CERT #1746

CALIBRATION STANDARD REPORT

INITIAL CALIBRATION DATE: 01/16/95
DAILY CALIBRATION DATE : 02/27/95

COMPOUND	DETECTOR	INITIAL	%RSD	AREA	DAILY	%DIFF	AREA	CLOSING	%DIFF
TPH GASOLINE - FID #1	FID	0.53	5.6%	271	0.45	14.3%	272	0.45	14.0%
TPH GASOLINE - FID #2	FID	0.56	3.6%	314	0.52	6.9%	299	0.50	11.3%
TPH GASOLINE - FID #3	FID	0.57	2.4%	348	0.58	1.8%	354	0.59	3.5%

INITIAL CALIBRATION DATE: 01/17/95
DAILY CALIBRATION DATE : 02/27/95

COMPOUND	DETECTOR	INITIAL	%RSD	AREA	DAILY	%DIFF	AREA	CLOSING	%DIFF
TPH DIESEL - FID #1	FID	0.23	1.8%	308	0.21	12.3%	282	0.19	19.7%
TPH DIESEL - FID #2	FID	0.22	1.7%	362	0.24	8.7%	320	0.21	3.9%
TPH DIESEL - FID #3	FID	0.26	0.7%	355	0.24	10.0%	358	0.24	9.3%

INITIAL CALIBRATION DATE: 12/05/94
DAILY CALIBRATION DATE : 02/27/95

COMPOUND	DETECTOR	INITIAL	%RSD	AREA	DAILY	%DIFF	AREA	CLOSING	%DIFF
BENZENE	PID	80.31	3.2%	214	71.33	11.2%	206	68.67	14.5%
TOLUENE	PID	76.84	7.2%	201	67.00	12.8%	186	62.00	19.3%
ETHYLBENZENE	PID	65.72	4.6%	171	57.00	13.3%	171	57.00	13.3%
m&p-XYLENES	PID	77.65	14.2%	476	79.33	2.2%	455	75.83	2.3%
o-XYLENES	PID	62.98	12.9%	177	59.00	6.3%	165	55.00	12.7%

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) SOILS

ANALYSIS DATE : 02/27/95 SAMPLE ID : D-1 TEG # : 950220-9

COMPOUND	SPK CONC (mg/Kg)	MS CONC (mg/Kg)	% REC MS	MSD CONC (mg/Kg)	% REC MSD	RPD	ACP RPD	ACP %MS
TPH GASOLINE	200	190	95.0%	183	91.5%	3.8%	15%	65% - 135%
TPH DIESEL	500	505	101.0%	556	111.2%	9.6%	15%	65% - 135%
BENZENE	1.000	0.845	84.5%	0.869	86.9%	2.8%	15%	65% - 135%
TOLUENE	1.000	0.739	73.9%	0.720	72.0%	2.6%	15%	65% - 135%
ETHYLBENZENE	1.000	0.817	81.7%	0.824	82.4%	0.9%	15%	65% - 135%
TOTAL XYLENES	3.000	2.558	85.3%	2.658	88.6%	3.8%	15%	65% - 135%

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1746)

ANALYSES PERFORMED BY: MS. WINA SEISS

DATA REVIEWED BY: MS. SHERI HARTMAN Sheri W Hartman 3/8/95

ANALYTICAL PROCEDURES

The following text gives a brief summary of the analytical procedures used. Detailed descriptions are available upon request.

SAMPLE PREPARATION

Waters

Waters are prepared for TPH analysis (gasoline and diesel) and aromatic hydrocarbon analysis (BTEX) by either liquid-liquid extraction with freon 113 using a modified EPA Method 3510 or by purge & trap using EPA method 5030. For volatile chlorinated hydrocarbons, water samples are prepared by purge & trap following EPA Method 5030.

Soils

Soil samples are extracted with methanol for volatile chlorinated hydrocarbon compounds (EPA 8010) and with freon 113 for volatile aromatic hydrocarbon compounds (EPA 8020) and fuel compounds (DOHS approved EPA 8015m) by liquid-solid extraction using a modified EPA method 3550.

GAS CHROMATOGRAPHY

Volatile Chlorinated Hydrocarbons

Water samples and soil extracts are purged in a Tekmar LSC-2000 purge & trap, and backflushed into a Shimadzu 14A gas chromatograph equipped with megabore capillary columns and photoionization detector (PID) and Hall electrolytic detectors following EPA Methods 601/8010 and 602/8020.

Volatile Aromatic Hydrocarbons (BTEX) & Total Fuel Hydrocarbons (TPH)

An aliquot of the soil extract is injected on-column into a Shimadzu gas chromatograph equipped with megabore capillary columns, photoionization (PID) and flame ionization detectors (FID).

TOTAL RECOVERABLE HYDROCARBONS

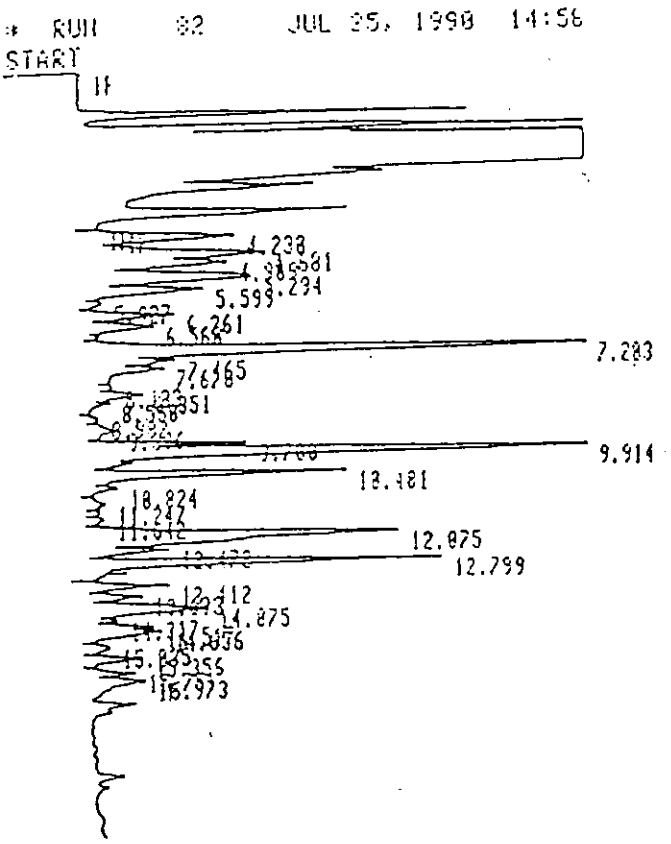
Extracts are scrubbed with silica gel and measured on a BUCK 404 Infrared Analyzer following EPA 418.1 protocols.

DATA ACQUISITION & PROCESSING

Data from the gas chromatographs are acquired by Peaksimple computer data acquisition system. Separate chromatograms are printed for each detector. The resulting chromatograms are inspected at the end of each run and the data entered into a spreadsheet for on-site processing and evaluation.

TOTAL PETROLEUM HYDROCARBONS (EPA 8015m)

GASOLINE



STOP

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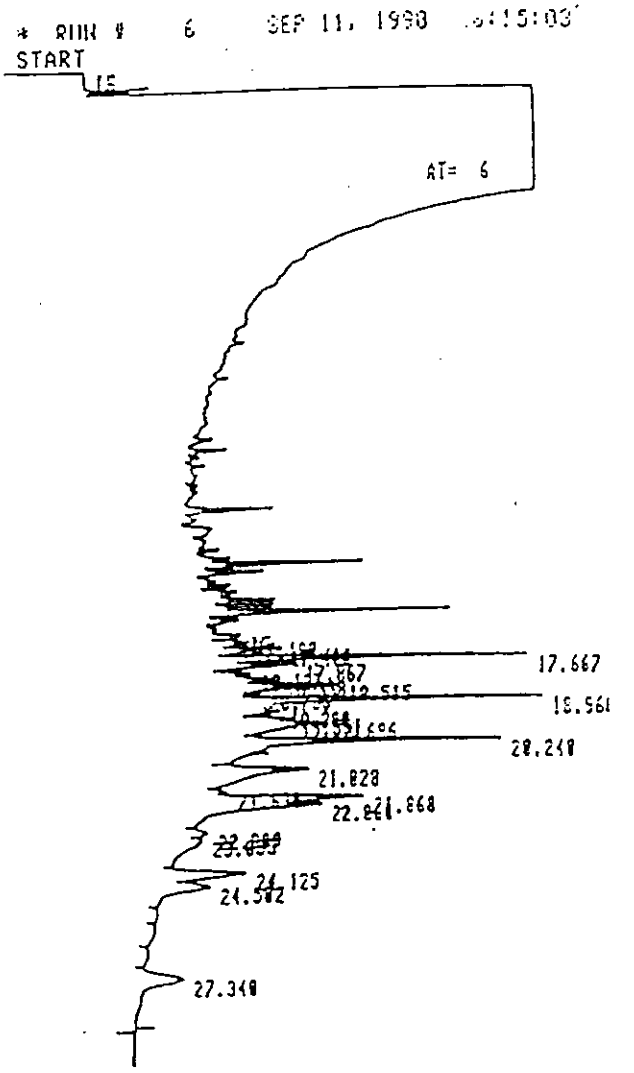
RUN# 82 JUL 25, 1998 14:58:41

SIGNAL FILE: M:SIGNAL.BHC

EPA METHOD 8015

DIESEL



TIMETABLE STOP

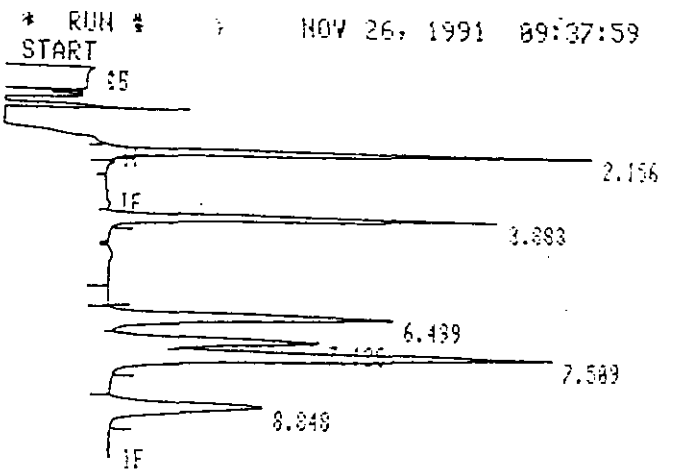
Closing signal file M:SIGNAL .BHC

RUN# 6 SEP 11, 1998 18:15:03

432 N. Cedros Ave., Solana Beach CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

Transglobal Environmental Geochemistry

VOLATILE AROMATIC HYDROCARBONS (EPA 602/8020)



TIMETABLE STOP

Closing signal file M:SIGNAL .BNC

RUN# 4 NOV 26, 1991 09:37:59

SIGNAL FILE: M:SIGNAL.BNC

EPA8020M

ESTD

RT	TYPE	AREA	WIDTH	HEIGHT
2.156	BB	413165	.894	73440
3.883	PB	366094	.137	44456
6.499	BB	387750	.200	32291
7.128	BB	208464	.178	19467
7.589	BB	545349	.200	45373
8.848	BB	278847	.265	17522

RT	CAL#	PPM SOIL	NAME
2.156	1R	1.195	BENZENE
3.883	2R	1.221	TOLUENE
6.499	3R	1.201	CHLOROBENZ
7.128	4R	1.232	ETHYLBENZ
7.589	5R	2.342	M&P XYLENE
8.848	6R	1.250	O XYLENE

TOTAL AREA=2199369
MUL FACTOR=1.0000E+00

432 N. Cedros Ave., Solana Beach CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

Transglobal Environmental Geochemistry

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY, INC.

CHAIN-OF-CUSTODY RECORD

CLIENT: ENVIRONMENTAL BUSINESS SOLUTIONS INC

ADDRESS: 8799 BALBOA AVE. SUITE 290, SAN DIEGO, CA

PHONE: (619) 571-5500 FAX: (619) 571-5357

CLIENT PROJECT #: 94E1196.1 PROJECT MANAGER: BARRY PULVER

DATE: 2/20/95 PAGE 1 OF 1

TEG PROJECT #: 950220-9

LOCATION: PALOMAR COLLEGE, SAN MARCOS, CA

COLLECTOR: STEVEN TRUESDALE DATE OF COLLECTION: 2/20/95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Number
D-1		9:50	SOIL	GLASS JAR						X										HIGHEST CONCENTRATION SAMPLE ALSO ANALYZE FOR BTEX (8020). IN ALL SAMPLES ARE ND, ANALYZE D-1 FOR BTEX 8020		
D-2		10:35	↓	↓						X												
D-3		11:45								X												
D-4		12:30								X												
D-5		2:00								X												
D-6		2:35								X												

RELINQUISHED BY: (Signature) DATE/TIME 2/20/95 1737 RECEIVED BY: (Signature) DATE/TIME 2/20/95 17:38

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS

☒ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	6
CHAIN OF CUSTODY SEALS Y/N/NA	N
SEALS INTACT? Y/N/NA	N/A
RECEIVED GOOD COND./COLD	Y
NOTES:	

LABORATORY NOTES:

April 14, 1995

Mr. Barry Pulver
Environmental Business Solutions, Inc.
8799 Balboa Avenue
Suite 290
San Diego, CA 92123

SUBJECT: DATA REPORT - PALOMAR COLLEGE - SAN DIEGO - EBS PROJECT #94E1196.1

TEG Project #950407-9

Mr. Pulver:

Please find enclosed a data report for the above referenced project. All samples were analyzed in TEG's DOHS certified mobile laboratory (CERT #1667).

Project Summary

The following analyses were conducted:

- 1 water for total petroleum hydrocarbons (TPH) by DOHS Modified EPA Method 8015
- 1 water for volatile aromatic hydrocarbons (BTEX) by EPA Method 8020

The sample was received chilled in appropriate containers with appropriate labels, seals, and chain-of-custody documentation.

Project Narrative

The results for all analyses and required QA/QC analyses are summarized in the enclosed tables. All calibrations, blanks, surrogates, and spike recoveries fulfilled quality control criteria. No data qualifiers (flags) apply to any of the reported data.

TEG appreciates the opportunity to provide analytical services to Environmental Business Solutions, Inc. on this project. If you have any questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Sheri Hartman

Ms. Sheri Hartman
President

432 NORTH CEDROS AVENUE • SOLANA BEACH, CA 92075 • 619-793-0401 • FAX 619-793-0404

Environmental Business Solutions Project #94E1196.1
Palomar College
San Diego, CA

TEG Project #950407-9

TPH (DOHS Mod. EPA Method 8015) & BTEX (EPA Method 8020) ANALYSES OF WATERS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (ug/l)	TPH-DIESEL C12-C24 (ug/l)	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYLBENZ (ug/l)	XYLENES (ug/l)
METHOD BLANK	4/10/95	ND	ND	ND	ND	ND	ND
MW1	4/10/95	ND	ND	ND	ND	ND	ND
MW1 *DUP*	*4/10/95*	*ND*	*ND*	*ND*	*ND*	*ND*	*ND*
DETECTION LIMITS (ug/l)		500	500	0.5	0.5	0.5	0.5

"ND" INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MS. MARJORIE TAN
DATA REVIEWED BY: MS. SHERI HARTMAN Sheri Hartman 4/18/95

teg

MS/MSD SUMMARY

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR SOILS

ANALYSIS DATE : 4/10/95
TEG PROJECT # 950407-9

COMPOUND	SPK CONC ((ug/L)	MS CONC (ug/L)	%REC MS	MSD CONC (ug/L)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE %MS
TPH GASOLINE	2000	1,593	79.7%	1683	84.2%	5.5%	15%	65% - 135%
TPH DIESEL	5000	5,080	101.6%	5151	103.0%	1.4%	15%	65% - 135%
BENZENE	10.000	777.4%	77.7%	7.841	78.4%	0.9%	15%	65% - 135%
TOLUENE	10.000	891.9%	89.2%	9.076	90.8%	1.7%	15%	65% - 135%
ETHYLBENZENE	10.000	919.8%	92.0%	9.258	92.6%	0.7%	15%	65% - 135%
TOTAL XYLENES	30.000	2830.7%	94.4%	28.662	95.5%	1.2%	15%	65% - 135%

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MS. MARJORIE TAN
DATA REVIEWED BY: MS. SHERI HARTMAN Sheri Hartman 4/18/95

teg

QA/QC REPORT

DAILY CALIBRATION

INITIAL CALIBRATION DATE: 03/15/95
DAILY CALIBRATION DATE : 4/10/95

COMPOUND	DETECTOR	INITIAL	%RSD	AREA	DAILY	%DIFF	AREA	CLOSING	%DIFF
TPH GASOLINE	FID #1	0.42	5.8%	230	0.38	8.3%	260	0.43	3.8%
TPH GASOLINE	FID #2	0.35	13.7%	261	0.43	25.6%	263	0.44	26.8%
TPH GASOLINE	FID #3	0.47	10.3%	287	0.48	1.5%	310	0.52	9.5%

INITIAL CALIBRATION DATE: 3/29/95
DAILY CALIBRATION DATE : 4/10/95

COMPOUND-DIESEL 500 PPM	DETECTOR	INITIAL	%RSD	AREA	DAILY	%DIFF	AREA	CLOSING	%DIFF
TPH DIESEL - FID #1	FID	0.17	10.1%	329	0.22	26.9%	334	0.22	28.9%
TPH DIESEL - FID #2	FID	0.17	8.6%	404	0.27	62.4%	368	0.25	47.6%
TPH DIESEL - FID #3	FID	0.25	8.3%	353	0.24	4.5%	329	0.22	10.8%

INITIAL CALIBRATION DATE: 03/24/95
DAILY CALIBRATION DATE : 4/10/95

COMPOUND	DETECTOR	INITIAL	%RSD	AREA	DAILY	%DIFF	AREA	CLOSING	%DIFF
BENZENE	PID	80.31	3.2%	132	43.89	45.4%	135	44.95	44.0%
TOLUENE	PID	76.84	7.2%	119	39.81	48.2%	117	38.85	49.4%
ETHYLBENZENE	PID	65.72	4.6%	106	35.19	46.5%	107	35.79	45.5%
m&p-XYLENES	PID	77.65	14.2%	253	42.19	45.7%	251	41.80	46.2%
o-XYLENES	PID	62.98	12.9%	109	36.21	42.5%	109	36.47	42.1%

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1667)
ANALYSES PERFORMED BY: MS. MARJORIE TAN
DATA REVIEWED BY: MS. SHERI HARTMAN Sheri Hartman 4/18/95

ANALYTICAL PROCEDURES

The following text gives a brief summary of the analytical procedures used. Detailed descriptions are available upon request.

SAMPLE PREPARATION

Waters

Waters are prepared for TPH analysis (gasoline and diesel) and aromatic hydrocarbon analysis (BTEX) by either liquid-liquid extraction with freon 113 using a modified EPA Method 3510 or by purge & trap using EPA method 5030. For volatile chlorinated hydrocarbons, water samples are prepared by purge & trap following EPA Method 5030.

Soils

Soil samples are extracted with methanol for volatile chlorinated hydrocarbon compounds (EPA 8010) and with freon 113 for volatile aromatic hydrocarbon compounds (EPA 8020) and fuel compounds (DOHS approved EPA 8015m) by liquid-solid extraction using a modified EPA method 3550.

GAS CHROMATOGRAPHY

Volatile Chlorinated Hydrocarbons

Water samples and soil extracts are purged in a Tekmar LSC-2000 purge & trap, and backflushed into a Shimadzu 14A gas chromatograph equipped with megabore capillary columns and photoionization detector (PID) and Hall electrolytic detectors following EPA Methods 601/8010 and 602/8020.

Volatile Aromatic Hydrocarbons (BTEX) & Total Fuel Hydrocarbons (TPH)

An aliquot of the soil extract is injected on-column into a Shimadzu gas chromatograph equipped with megabore capillary columns, photoionization (PID) and flame ionization detectors (FID).

TOTAL RECOVERABLE HYDROCARBONS

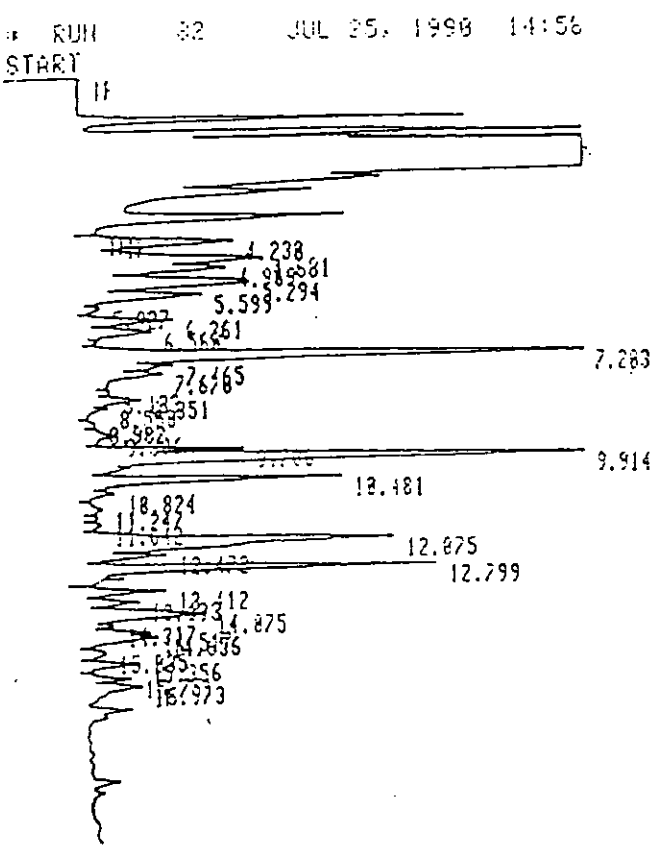
Extracts are scrubbed with silica gel and measured on a BUCK 404 Infrared Analyzer following EPA 418.1 protocols.

DATA ACQUISITION & PROCESSING

Data from the gas chromatographs are acquired by Peaksimple computer data acquisition system. Separate chromatograms are printed for each detector. The resulting chromatograms are inspected at the end of each run and the data entered into a spreadsheet for on-site processing and evaluation.

TOTAL PETROLEUM HYDROCARBONS (EPA 8015m)

GASOLINE



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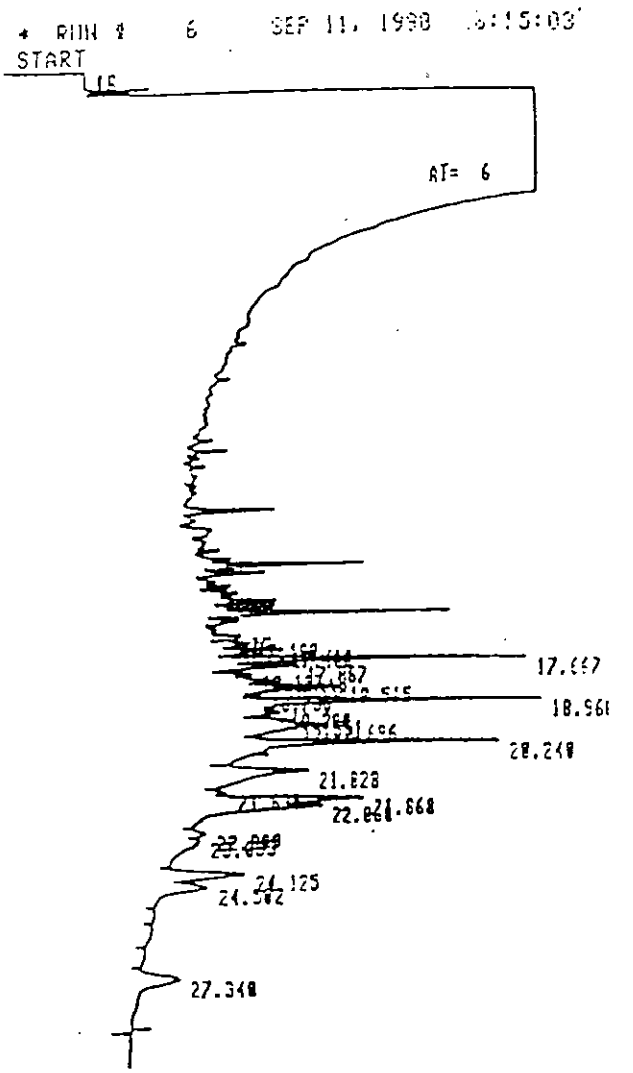
RUN# 82 JUL 25, 1990 14:58:41

SIGNAL FILE: M:SIGNAL.BHC

EPA METHOD 8015

DIESEL



TIMETABLE STOP

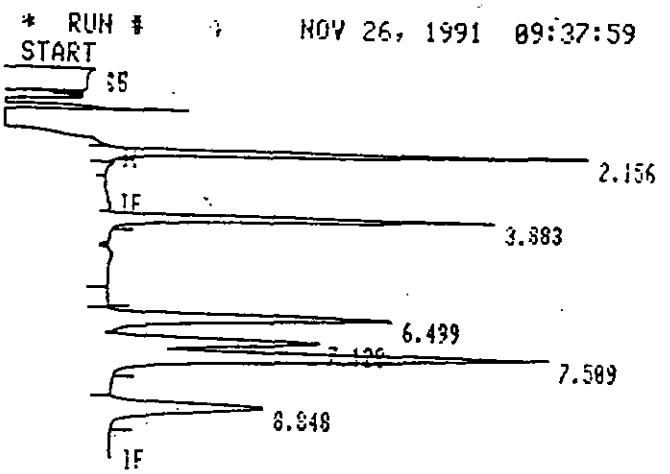
Closing signal file M:SIGNAL .BHC

RUN# 6 SEP 11, 1990 18:15:03

432 N. Cedros Ave., Solana Beach CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

Transglobal Environmental Geochemistry

VOLATILE AROMATIC HYDROCARBONS (EPA 602/8020)



TIMETABLE STOP

Closing signal file M:SIGNAL .BNC

RUN# 4 NOV 26, 1991 09:37:59

SIGNAL FILE: M:SIGNAL.BNC

EPA8020M

ESTD

RT	TYPE	AREA	WIDTH	HEIGHT
2.156	BB	413165	.094	73440
3.883	PB	366094	.137	44456
6.499	BB	387750	.200	32291
7.128	BB	208464	.178	19467
7.589	BB	545349	.200	45373
8.848	BB	278847	.265	17522

RT	CAL#	PPM SOIL	NAME
2.156	1R	1.195	BENZENE
3.883	2R	1.221	TOLUENE
6.499	3R	1.201	CHLOROBENZ
7.128	4R	1.232	ETHYLBENZ
7.589	5R	2.342	M&P XYLENE
8.848	6R	1.250	O XYLENE

TOTAL AREA=2199669
MUL FACTOR=1.0000E+00

432 N. Cedros Ave., Solana Beach CA 92075 Ph: (619) 793-0401 Fax: (619) 793-0404

Transglobal Environmental Geochemistry

teg

TRANSGLOBAL ENVIRONMENTAL GEOCHEMISTRY

CHAIN-OF-CUSTODY RECORD

P.O. #: _____

CLIENT: ENVIRONMENTAL BUSINESS SOLUTIONS, INC.
ADDRESS: 8799 BALBOA AVE. SUITE 290, SAN DIEGO CA
PHONE: (619) 571-5500 FAX: (619) 571-5357
CLIENT PROJECT #: 9211196.1 PROJECT MANAGER: BARRY PULVER

DATE: 4-6-95 PAGE 1 OF 1
TEG PROJECT #: 720407-7
LOCATION: PALOMAR COLLEGE
COLLECTOR: STEVE TRUESDALE DATE OF COLLECTION: 4-6-95

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8240	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	HEX CHROME	ORGANIC LEAD	TOTAL LEAD	pH	ASBESTOS	FIELD NOTES	Total Number Of Containers	Laboratory Number
MW 1		1825	WATER	40ml VIALS	X					X										8015 (g+d) AND 8020 (btex)	6	

RELINQUISHED BY: (Signature) DATE/TIME: 4/7/95 RECEIVED BY: (Signature) DATE/TIME: 4.7.95 (5:10)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature) DATE/TIME

SAMPLE DISPOSAL INSTRUCTIONS
☒ TEG DISPOSAL @ $2.00 each ☐ Return ☐ Pickup

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	6
CHAIN OF CUSTODY SEALS Y/N/NA	NA
SEALS INTACT? Y/N/NA	NA
RECEIVED GOOD COND./COLD	C
NOTES:	

LABORATORY NOTES:

County of San Diego

DANIEL J. AVERA
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261
(619) 338-2222 FAX (619) 338-2377

SITE ASSESSMENT AND MITIGATION DIVISION

March 22, 1996

Palomar Community College
Attn: Kelley MacIsaac
1140 W. Mission Rd.
San Marcos, CA 92069

Dear Ms. MacIsaac:

UNDERGROUND STORAGE TANK (UST) CASE
PALOMAR COMMUNITY COLLEGE, ART DEPARTMENT STORAGE AREA
1140 W. MISSION RD., SAM MARCOS, CA 92069
#H03452-002

This letter confirms the completion of site investigation and remedial action for the underground storage tank 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). If a change in land use is proposed, the owner must promptly notify this agency.

Please telephone Johanna Barry at (619) 338-2492 if you have any questions regarding this matter.

Sincerely,

CHUCK PRYATEL, Division Manager
Site Assessment and Mitigation Division

CP:gl

Enclosure

cc: Regional Water Quality Control Board
State Water Resources Control Board, Underground Tanks Program

[redacted] Case Closure Summary [redacted]
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: 03/19/96

Agency Name: County of San Diego, Environmental Health, SAM	Address: PO Box 85261
City/State/ZIP: San Diego, CA 92186-5261	Phone: (619) 338-2222 Fax: (619) 338-2377
Responsible Staff Person: Johanna Barry	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Palomar Community College		
Site Facility Address: 1140 W. Mission Rd., San Marcos, CA 92069		
RB LUSTIS Case No: N/A	Local Case No: H03452-002	LOP Case No: N/A
URF Filing Date:1/11/94	SWEEPS No: N/A	
Responsible Parties: Palomar Community College	Addresses 1140 W. Mission Rd, San Marcos, CA 92069	Phone Number (619) 744-1150
Attn: Kelley MacIsaac		

Tank No.	Size in Gal.	Contents	Closed in Place/Removed?	Date
1	1000	gasoline	removed on 12/23/93	12/23/93
2				
3				

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Gasoline contamination from the former underground storage tank system.			
Site Characterization complete? Yes	Date Approved By Oversight Agency: 11/8/95		
Monitoring Wells Installed? Yes	Number: 1	Proper Screened Interval? Yes	
Highest GW Depth Below Ground Surface: 9.62' bgs	Lowest Depth: 12.83'bgs	Flow Direction:west to south west	
Most Sensitive Current Use: Municipal, industrial, and agricultural beneficial uses for the groundwater. Basin 4.52			
Are Drinking Water Wells Affected? No	Aquifer Name: Basin 4.52		
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? County of San Diego, Environmental Health		

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1000 gallon steel ust	Rendered Non-Hazardous and Scrapped. Destination:Grape Sales, Lakeside, CA	12/23/93
Piping			
Free Product			
Soil	~350 tons of soil	Clean Soils Inc., Bakersfield Ca 93307	1/13/94
Groundwater			
Barrels			

[redacted] Case Closure Summary [redacted]
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- BEFORE AND AFTER CLEANUP

Contaminant	Soil(ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	3100mg/kg	14mg/kg	ND	ND	Xylene	150mg/kg	ND	ND	ND
TPH (Diesel)					Ethylbenzene	22mg/kg	ND	ND	ND
Benzene	0.79mg/kg	ND	ND	ND	Oil & Grease				
Toluene	0.05mg/kg	ND	ND	ND	Heavy Metals				
Other					Other				

Comments (Depth of Remediation, etc.): One 1000 gallon steel gasoline underground storage tank removed on 12/23/93. Workplan approved for post-tank removal investigation. TPH contaminated soil excavated and disposed of off-site to Clean Soils Inc., Bakersfield CA. Soil excavated to a maximum depth of 19.5' bgs. Confirmation/verification soil samples taken. The soil contamination levels do not exceed the general cleanup levels for the site. One groundwater monitoring well was installed at the site to assess the condition of the groundwater in the vicinity of the former ust. The groundwater monitoring well was quarterly monitored for two periods (4/6/95 and 9/9/95). The results of the laboratory analysis of both groundwater samples did not reveal detectable concentrations of TPH and BTEX.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin 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: None

Should corrective action be reviewed if land use changes? Yes

Monitoring Wells Decommissioned: To be destroyed | Number Decommissioned: 1 | Number Retained:

List Enforcement Actions Taken: Notice of Corrective Action and Reimbursement Responsibility

List Enforcement Actions Rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Chuck Pryatel | Title: Division Manager, Site Assessment and Mitigation

Signature: [signature] | Date: 3-21-96

Hydrogeologist Concurrence: [signature] | Date: 3/20/96

VI. RWQCB NOTIFICATION

Date Submitted to RB: N/A Soil Only Case | RB Response:

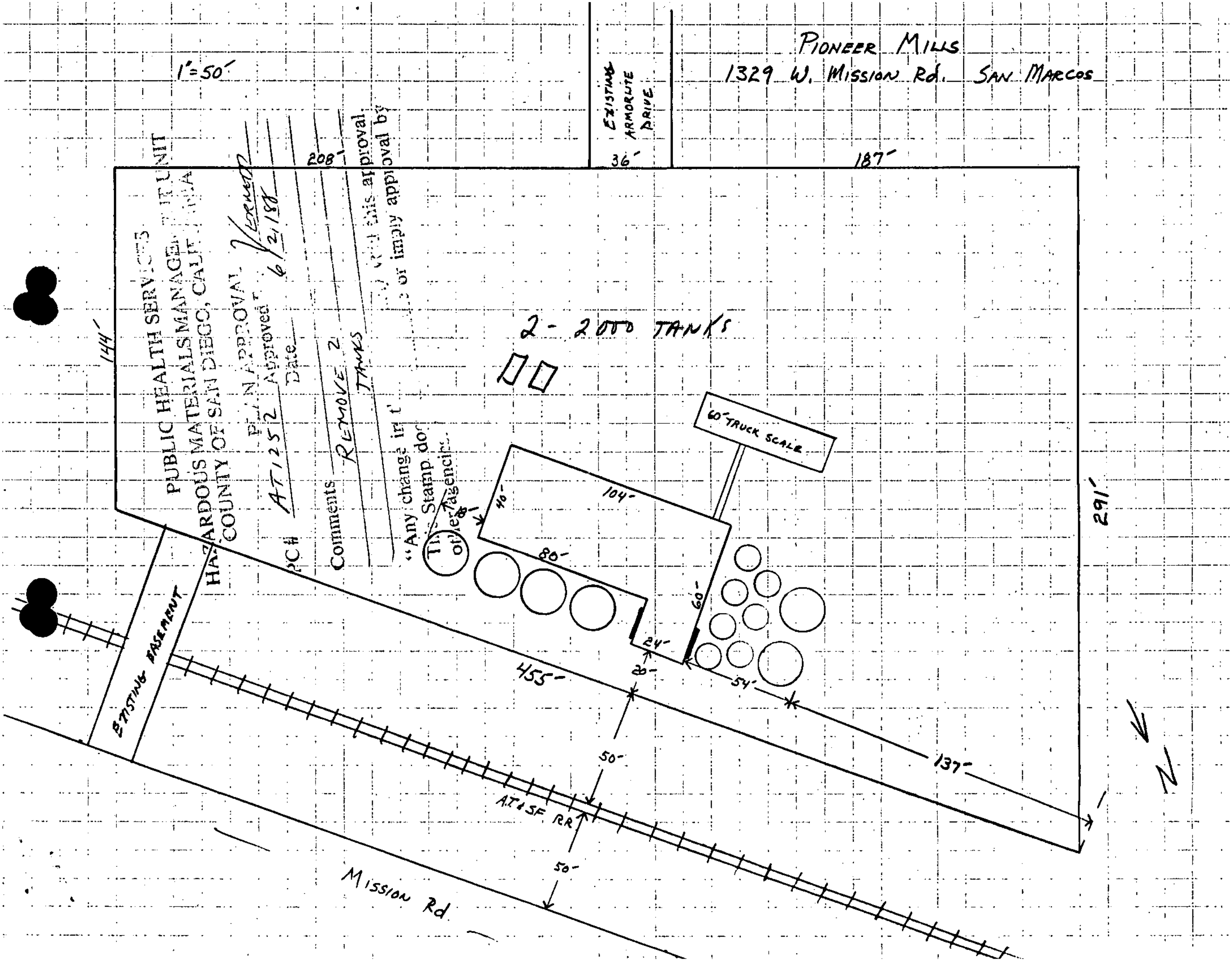
RWQCB Staff Name: | Title: | Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

The soil contamination levels do not exceed the general cleanup levels for the site. One groundwater monitoring well was installed at the site to assess the condition of the groundwater in the vicinity of the former underground storage tank. The groundwater monitoring well was quarterly monitored for two periods (4/6/95 and 9/9/95). The results of the laboratory analysis of both groundwater samples did not reveal detectable concentrations of TPH or BTEX. Received concurrence for site closure from K. Heaton (SAM) on 11/8/95. Soil only case.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

1329 WEST MISSION ROAD


PIONEER MILLS
1329 W. MISSION Rd. SAN MARCOS
1"=50'
EXISTING ARMORLITE DRIVE
208'
36'
187'
144'
291'
PUBLIC HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT UNIT
COUNTY OF SAN DIEGO, CALIFORNIA
PLAN APPROVAL
PC# AT1252 Approved
Date 6/2/88
Comments REMOVE 2 TANKS
"Any change in t
this approval
The Stamp do
or imply approval by
other agencies
2 - 2000 TANKS
60' TRUCK SCALE
104'
40'
80'
60'
24'
20'
54'
455'
137'
50'
50'
EXISTING EASEMENT
AT&SF RR
MISSION Rd.
N

199 NORTH LAS POSAS ROAD

KLEINFELDER

Mr. Dave Drewiske
3M Real Estate Department
Build 42-8W
900 Bush Avenue
St. Paul, MN 55144

August 12, 1988
53-1088-01

SUBJECT: RESULTS OF MONITORING WELL RESAMPLING
LOS POSAS ROAD AND ARMORLITE DRIVE
SAN MARCOS, CALIFORNIA

REFERENCE REPORT: ENVIRONMENTAL ASSESSMENT
3M PROPERTY
LOS POSAS ROAD AND ARMORLITE DRIVE
SAN MARCOS, CA. JUNE 22, 1988

Dear Mr. Drewiske:

In accordance with your request, Kleinfelder has completed the resampling and analysis of monitoring wells located on the subject property. Six water samples acquired from the wells on July 28, 1988 were submitted to Chemical Research Laboratory, and analyzed in accordance with EPA Method 601 for the compounds Trichloroethene (TCE), Tetrachlorethene (PCE), and 1,1-Dichloroethene (DCE). During an earlier phase of this investigation, each of these compounds was detected in samples from monitoring well MW-4. These compounds were not detected in samples acquired from other monitoring wells on the site sampled at the same time as MW-4. The monitoring well locations and a discussion of the methodology and protocol followed during well installation and sampling is presented in the reference report.

The purpose for resampling the monitoring wells was to assess whether the short time period between well installation and initial sampling, necessitated by the client's schedule, had resulted in the collection of non-representative samples. The second laboratory results from the resampled wells indicate that the time frame did affect

the analytical results.

A summary of analytical results from this most recent sampling round is presented below. Copies of the laboratory report and Chain-of-Custody documents are attached.

Aug/Sept

SUMMARY OF ANALYTICAL RESULTS
EPA METHOD 601

* Building permit

Sample Location	Compound	Concentration (mg/l)	
MW-1	No compounds detected		
MW-2	PCE	.003	
MW-3	PCE	.004	
MW-4	TCE 5 ug/l	.05	.005
	PCE 4 ug/l	.15	.004
MW-5	PCE	.007	
MW-6	TCE	.15	.05
	PCE	.28	.05

Not Spread

Low Concentrations

Isolated To Corner

The detection of compounds in monitoring wells MW-2, 3, 5, and 6 suggests that the movement of PCE and TCE within ground water beneath the site encompasses a larger area than discussed in the reference report. At this time it appears the boundaries of compound migration extend west and south of well MW-5, and the south property line, respectively. It is our opinion that the relatively low concentrations of PCE detected in monitoring wells MW-2 and MW-3 represent the approximate northern boundary of the compound migration. Confirmation of this would require construction and sampling of an additional well northeast of MW-2 and MW-3. The eastern boundary of compound movement appears to lie west of well MW-1.

The source of TCE and PCE remains unknown. The approximate direction of ground water flow beneath the site is from the south towards the north. This in conjunction with the attenuation in compound concentrations from south to north suggests that the source is located south of the property.

Definition of the western and southern boundaries of compound migration will probably require off-site exploratory work. Until the issues of source and migration boundaries are addressed mitigation of subsurface conditions, if necessary, is impractical. Since both of these issues appear to involve outside parties, we recommend that further on-site work be completed only when knowledge of off-site conditions and intentions is ascertained.

If you have any questions, please contact the undersigned. We appreciate the opportunity to be of service.

Sincerely,
KLEINFELDER

Alan Sprott
Staff Hydrogeologist

Randolph C. Harris, RG 3708
Senior Hydrogeologist

AS:RCH/rb

KLEINFELDER

REPORT PREPARED FOR:

3M
BUILDING 21-2W-05
P.O. BOX 3331
ST. PAUL, MN 55133-3331

ENVIRONMENTAL ASSESSMENT
3M PROPERTY
LAS POSAS ROAD AND ARMORLITE DRIVE
SAN MARCOS, CALIFORNIA

KLEINFELDER PROJECT NO. 53-1088-01

by

Alan Sprott
STAFF HYDROGEOLOGIST

Randolph C. Harris, RG 3708
SENIOR HYDROGEOLOGIST

KLEINFELDER
9771 Clairemont Mesa Blvd., Suite G
San Diego, CA 92124
(619) 541-1145

June 22, 1988

1.0 SUMMARY

On May 24, 1988 Kleinfelder was authorized to conduct an Environmental Assessment at the 3M property located southeast of the Las Posas Road and Armorlite Drive intersection in San Marcos, California.

Five ground water monitoring wells were installed at the site. These five wells and one additional well previously installed were sampled and analyzed for the presence of Trichloroethene (TCE), Perchloroethene (PCE), and Dichloroethene (DCE).

Results of analytical analyses indicate that the compounds TCE and PCE were detected in ground water in proximity to well MW-4, located 10 feet north of the southern property line. These compounds were not detected in samples from monitoring wells located within a 50 foot radius of MW-4.

The analytical results, our field methodology, conclusions and recommendations are presented herein.

2.0 DISCUSSION, CONCLUSIONS, RECOMMENDATIONS

2.1 Discussion

Laboratory analyses of soil and ground water samples indicate that the constituents Trichloroethene (TCE) and Perchloroethene (PCE) were detected in the ground water at the location of monitoring well MW-4 (see Plate 1: Laboratory). Based on laboratory results from five ground water monitoring wells installed within a 50 foot radius of MW-4, the spread of these compounds appears minimal. Analysis in accordance with EPA method 8010 detected TCE at a concentration of .043 parts per million (ppm) and PCE at a concentration of .078 ppm in water samples from MW-4. These compounds were not detected at a detection level of .004 ppm in water samples from other monitoring wells.

The source of constituents detected in ground water samples from MW-4 is unknown. Since the property has never been developed, the two plausible explanations are that constituents were discharged on the surface of the property; or that constituents are migrating from off-site via ground water. The southern boundary of the property in the vicinity of the detected constituents is adjacent to facilities which may use these compounds. Records at the County of San Diego Hazardous Materials Management Division (HMMD), which is the agency responsible for monitoring industrial chemical use, indicate that these facilities are not using large quantities (greater than 55 gallons) of TCE or PCE. However, chemicals which should be on record with the HMMD, but are not, were observed on the property of Distinctive Tool and Die immediately south of the property line in the area of assessment.

The approximate direction of ground water flow beneath the site is from the southeast to the northwest. This places facilities south of the subject property hydraulically up gradient of MW-4.

The eastern boundary of the property is adjacent to a facility which is on record with the HMMD for using halogenated solvents. This facility is known as Armorlite, Incorporated and is at 1001 Armorlite Drive, approximately 800 feet east of the location of MW-4. HMMD records indicate that an underground storage tank containing diesel fuel was removed and discovered leaking. The case has reportedly been closed since September 1986.

Due to the compressed time-frame for conducting the field work, it was necessary to install, develop, and sample each monitoring well within a 12 hour period. Typically, at least 72 hours is allowed between development and sampling. Although ground water samples which did not contain TCE and PCE may not be representative, well MW-4 was installed under the same circumstances and presumably has provided samples of equal integrity.

2.2 Conclusions

Based on our observations in the field and results of analytical analyses, we have developed the following conclusions regarding site conditions.

- Ground water in proximity to well MW-4 contains the compounds PCE and TCE.

- The source of these compounds is unknown. If the method of transport to the property is ground water, the source probably is located south of the subject site. If chemicals were discharged directly on the surface of the property, the source will probably never be identified.

- Ground water in proximity to other monitoring wells during this assessment does not appear to contain PCE and TCE. The possible exception to this is ground water in the vicinity of MW-6, which was constructed, developed, and sampled in a very small amount of time.

2.3 Recommendations

The following recommendations are intended to verify the findings of this assessment.

First, we recommend that each well be resampled and analyzed. This is necessary to verify that the protocol followed during the assessment did not affect the integrity of ground water samples.

We also recommend that subsequent to receiving the analytical results from the well resampling, each well be properly abandoned. Abandonment should be completed in accordance with County of San Diego guidelines. The recommendation for well abandonment assumes that constituents are not detected after the second analysis.

Finally, we recommend that the County of San Diego Hazardous Materials Management Division, and the California Regional Water Quality Control Board be notified regarding the site conditions.

Remediation of the site conditions appears impractical at this time due to the limited area which has been affected. In addition, remedial action should probably not be attempted until after the results of this assessment are verified, and subsurface conditions south of the property line are investigated.

3.0 PROJECT DESCRIPTION AND BACKGROUND

3.1 Site Location and Description

The site is located southwest of the Las Posas Road and Armorlite Drive intersection in San Marcos, California (see Plate 3: Site Location Map). At the time of our assessment, the property consisted of a 10 acre parcel of undeveloped land. The most significant feature of the property was a large drainage basin which apparently collects surface run-off originating north of the property. Two 55-gallon drums apparently containing soil cuttings from a previous site investigation were located at the southwest and southeast corners of the property.

Topography across the site generally consists of a gradual slope from north to south, with the north-south trending drainage basin bisecting the property. Vegetation was generally sparse on elevated areas, consisting of dry grass and weeds. Within the drainage area, vegetation became thicker and consisted of grass and reeds.

Plate 2 presents an overview of the site. Also shown on Plate 3 is the area of property considered during this assessment.

3.2 Background Information

During a previous geotechnical and environmental investigation at the site in May 1988, ground water was encountered while completing soil sampling. A temporary monitoring well subsequently constructed at the location presently identified as MW-4 provided water samples containing TCE, PCE, and Dichlorethene (DCE). Re-sampling and analysis from the well again detected these compounds.

As a result of these findings, Kleinfelder was retained to assess the subsurface conditions in the vicinity of MW-4. The purpose of the assessment was to evaluate the extent of compound migration within the site ground water. To accomplish this task, the following scope of work was implemented:

- Records search for pertinent information on surrounding facilities;
- Installation of five ground water monitoring wells;
- Sampling and analysis of six ground water monitoring wells;
- Preparation of this report.

4.0 SOIL SAMPLING AND TEMPORARY MONITORING WELL INSTALLATION

Our field investigation was conducted on May 26 and 27, 1988, and consisted of drilling exploratory borings and installing five temporary ground water monitoring wells at the approximate locations shown on Plate 1.

4.1 Soil Boring and Sampling

A total of five soil borings were completed on the property. The borings were drilled using 8-inch outside-diameter continuous-flight hollow-stem augers, and were advanced to depths ranging from 20 feet to 25 feet below the existing ground surface. Soil samples were obtained from each boring by driving a modified Porter sampler containing three 6-inch long brass tubes in advance of the drilling operation. Soil samples intended for laboratory analysis were retained in the brass tubes sealed with Teflon-lined lids. The soil samples were analyzed immediately after collection at an on-site mobile laboratory. Further details of the soil sampling protocol followed during the investigation are outlined in Appendix I.

Each boring was visually logged by a Kleinfelder geologist under the supervision of a geologist registered with the State of California. Logs of each completed boring are provided in Appendix II. Soils encountered were monitored for organic vapors by placing a small amount of representative material in a sealed container. The concentration of volatiles which collected in the head space of the container was measured with a photoionization detector calibrated to the benzene molecule. Readings obtained at each sampling interval are provided on the boring logs.

4.2 Temporary Monitoring Well Installation

All borings were completed as temporary ground water monitoring wells using flush threaded, 2-inch nominal diameter, Schedule 40 PVC well casing. Monitoring well MW-4, installed during a previous investigation, was constructed using the same techniques described below.

After drilling to the total depth desired for each well, the PVC casing was lowered through the hollow-stem of the auger flights. The annulus between the casing and sidewall was filled with 8x30 graded sand to form a filter pack around the well screen. The auger flights were removed one section at a time while the sand was being introduced into the hole. The depth of backfill was monitored with a weighted tape measure. When the desired depth of sand backfill was reached, approximately 2 feet above the top of the slotted casing, a 3-foot bentonite pellet seal was installed. The remaining annular space, from the bentonite seal to the ground surface, was sealed with bentonite grout. Refer to the boring log-plates in Appendix II for individual well completion details.

During construction of each well it was necessary to add approximately 20 gallons of potable water to each boring. This was required to maintain a hydraulic head within the boring and prevent the collapse of formation material around the casing.

Following completion, each well was developed and sampled. Development was completed using an air lift development tool powered by a portable air compressor. This tool has a foot valve which prevents air from entering the well casing or formation. The air flow to the tool is cyclically interrupted, causing surging action in the filter pack. This action helps remove fine-grained material from the formation and filter pack. The well was developed for approximately one hour.

Subsequent to development, each well was sampled with a 2-inch diameter bladder-type pump driven by compressed air. The compressed air inflates the bladder and displaces water in a chamber through discharge lines to the surface. There is no contact between the compressed air and formation water. The pump discharge hose is made of Teflon. All ground water samples were obtained directly from the pump discharge hose.

The pump was lowered into the well and a minimum of three well volumes purged from the casing prior to sample collection. During the purging operation, pH, electrical conductivity, and temperature of the discharge water were continually monitored. When these parameters stabilized, a sample was collected.

Samples were preserved according to methods recommended by the U.S. EPA. All ground water samples were immediately analyzed by an on-site mobile laboratory.

Additional documentation describing the sampling protocol used for this project is presented in Appendix I.

5.0 LABORATORY ANALYSIS

Soil and ground water samples were analyzed immediately after collection through the use of a mobile laboratory located on-site. The laboratory was operated by Chemical Research Laboratories of Garden Grove, California, and is Department of Health Services Certified for the analyses performed.

Five soil samples and seven water samples were analyzed for Trichloroethene, Perchloroethene and Dichloroethene in accordance with EPA method 8010. Analytical results are presented in Table 1. Copies of laboratory reports and chain-of-custody documents are included in Appendix III.

TABLE 1: ANALYTICAL RESULTS
ANALYSIS BY EPA METHOD 8010

Sample I.D.	Location	Matrix	Depth (Ft.)	Compound[1]	Concentration[2] ppm
S-01-10	MW-1	Soil	10	DCE	ND.05
				TCE	ND.05
				PCE	ND.05
W-01-04	MW-1	Water	--	DCE	ND.004
				TCE	ND.004
				PCE	ND.004
W-01-05	MW-1	Water	--	DCE	ND.004
				TCE	ND.004
				PCE	ND.004
S-02-16	MW-2	Soil	16	DCE	ND.05
				TCE	ND.05
				PCE	ND.05
W-02-09	MW-2	Water	--	DCE	ND.004
				TCE	ND.004
				PCE	ND.004
Composite S-03-11/16	MW-3	Soil	11,16	DCE	ND.05
				TCE	ND.05
				PCE	ND.05
W-03-13	MW-3	Water	--	DCE	ND.004
				TCE	ND.004
				PCE	ND.004

TABLE 1 - CONTINUED

Sample I.D.	Location	Matrix	Depth (Ft.)	Compound[1]	Concentration[2] ppm
W-04-17	MW-3	Water	--	DCE	ND.004
				TCE	.043
				PCE	.078
Composite S-05-11/16	MW-5	Soil	11,16	DCE	ND.05
				TCE	ND.05
				PCE	ND.05
W-05-21	MW-5	Water	--	DCE	ND.004
				TCE	ND.004
				PCE	ND.004
Composite S-06-11/16	MW-6	Soil	11,16	DCE	ND.05
				TCE	ND.05
				PCE	ND.05
W-06-25	MW-6	Water	--	DCE	ND.004
				PCE	ND.004
				TCE	ND.004

1: DCE: 1, 1-Dichloroethene, TCE Trichloroethene, PCE Perchloroethene.

2: ppm: parts per million, solid: ppm = mg/kg, liquid ppm = mg/l.
ND: compound not detected in sample at concentration indicated.

6.0 GEOLOGIC OVERVIEW OF SITE

6.1 Overview

The project site is located in the province of the Bonsall Hydrographic subunit. The California Regional Water Quality Control Board Water Quality Control Plan indicates that beneficial ground water uses exist in this subunit for municipal, agricultural, and industrial supplies.

The general vicinity of the site is underlain by alluvium, sedimentary formational units, and crystalline basement rock of mesozoic age.

6.2 Local Conditions

The stratigraphy encountered at the site generally consisted of 30 feet of interstratified zones of clay, silt, clayey sand, and gravel. Each zone generally ranged from two to ten feet thick.

During the drilling operation a change in material from moist to wet was considered the depth to ground water. Ground water was encountered in each boring between a depth of 15 and 18 feet below ground surface. Taking the elevation change at the ground surface between well locations into consideration, ground water was encountered at essentially the same elevation in each boring. A rise in water level within each well was noted after completion.

Based on water level data obtained by Kleinfelder during a previous investigation at the site, the direction of ground water flow in the area is estimated to be from the southeast towards the northwest. Plate 1 presents the direction of flow in relation to the wells.

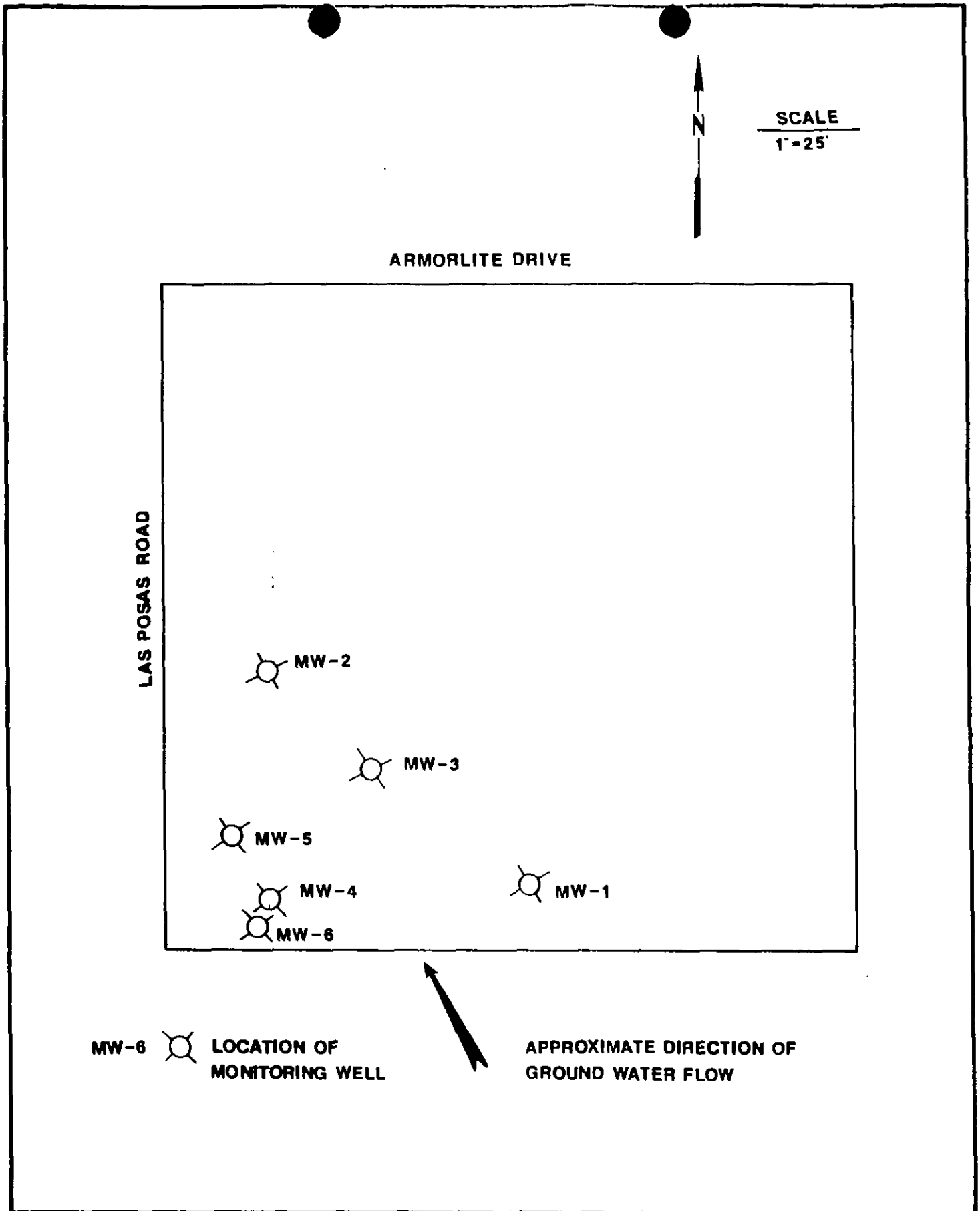
7.0 LIMITATIONS AND CONFIDENTIALITY

7.1 Limitations of Study

The results presented in any verbal or written reports are based on the information acquired during the investigation. It is possible that variations in the soil or ground water conditions could exist beyond the points explored in this investigation. Also, changes in conditions could occur at some time in the future due to variations in rainfall, temperature, regional water usage or other factors not apparent at the time of the field investigation.

7.2 Confidentiality

All specific data generated and reports written for this project are the proprietary information of our client and will be released only after receipt of written authorization from our client.

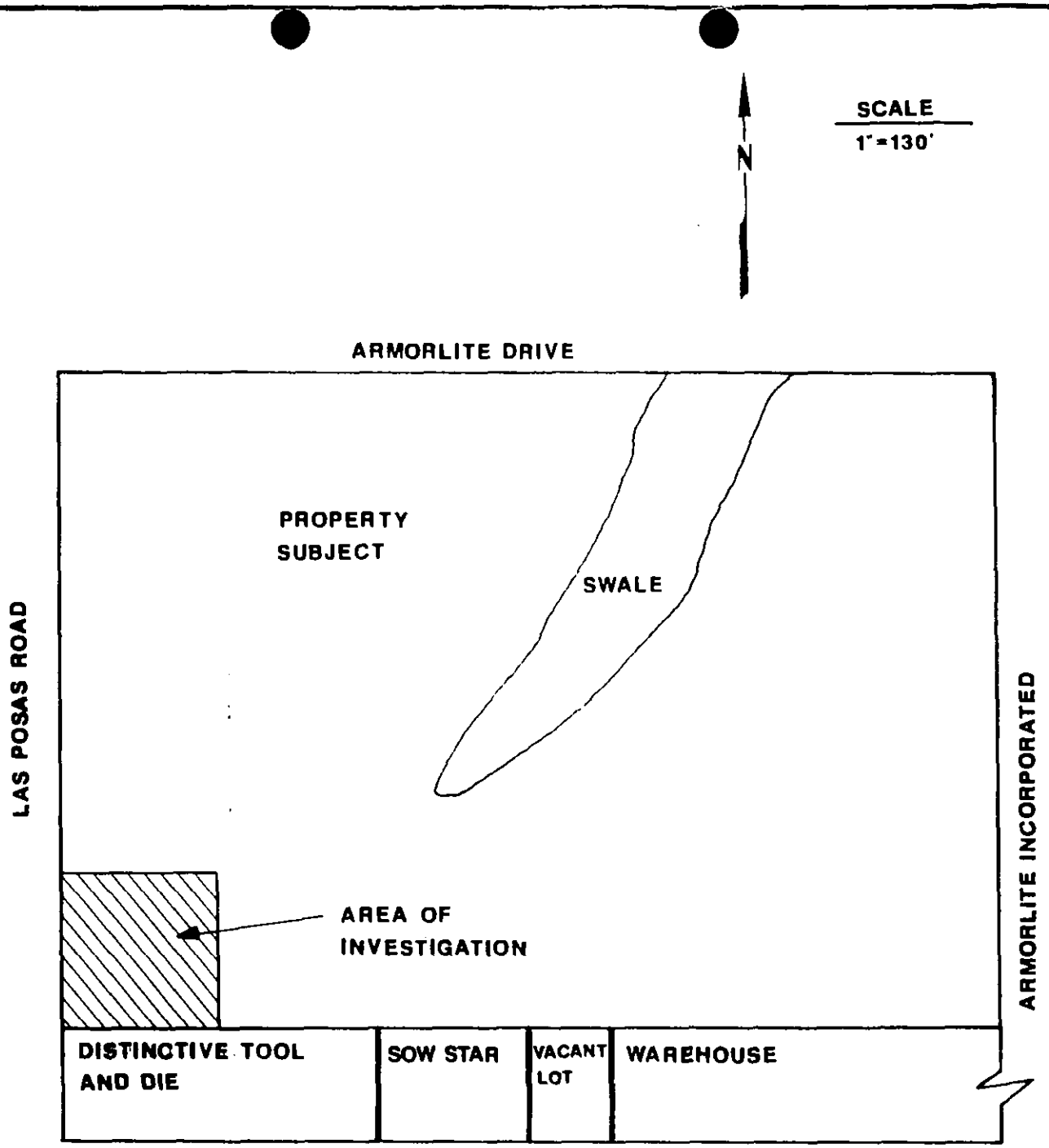


KLEINFELDER

PROJECT NO. **53-1088-1**

MONITORING WELL LOCATIONS

PLATE 1

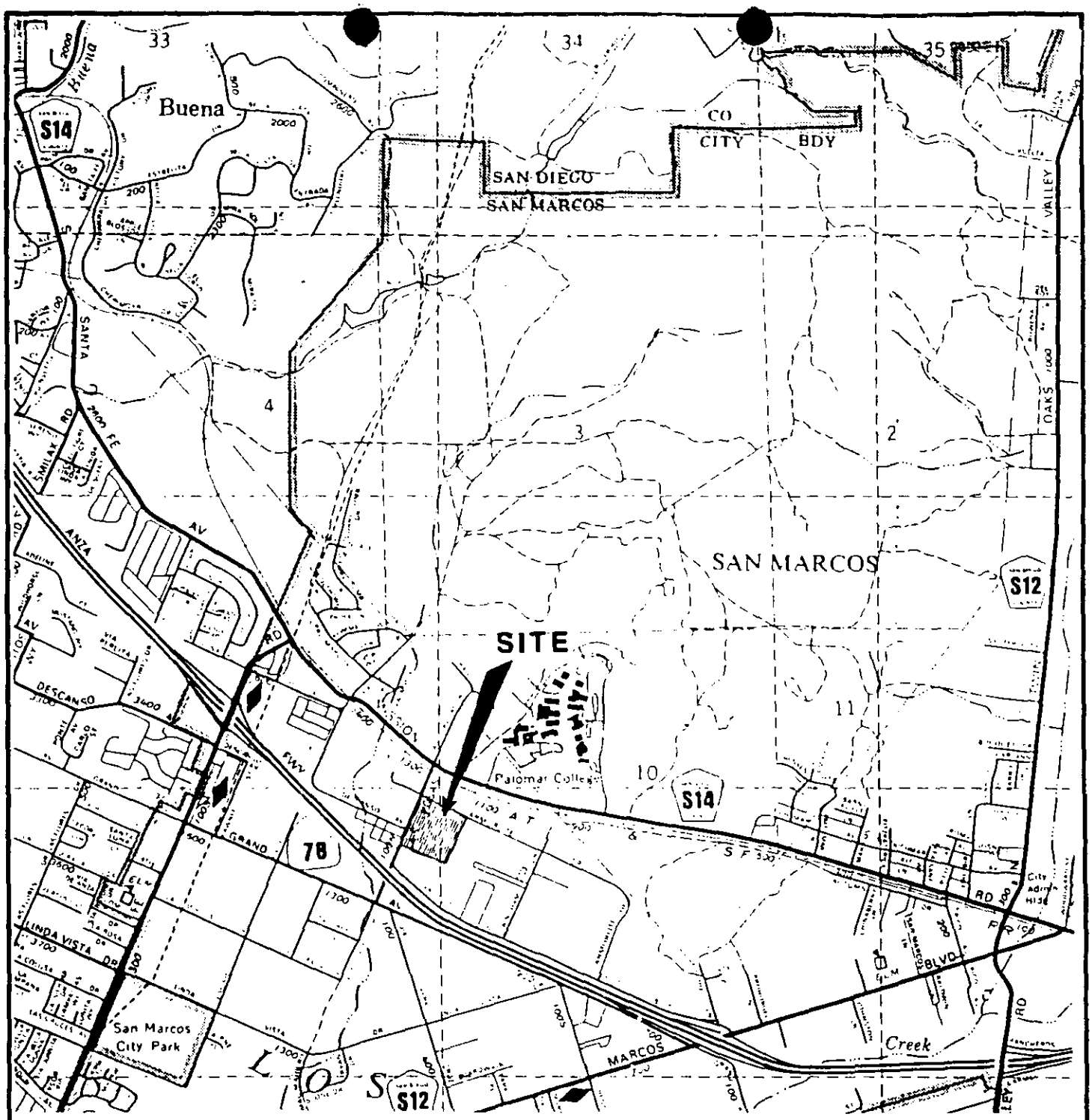


KLEINFELDER

SITE PLAN

PLATE
2

PROJECT NO. 53-1088-1



0 500 1500 3000 5000

scale feet

1" = 2000'

BASE MAP: Aerial Foto-Map Book
1986-87

KLEINFELDER

PROJECT NO. 53-1088-1

SITE LOCATION MAP

PLATE 3

APPENDIX

SOIL SAMPLING PROTOCOL

The following procedures are followed during soil sampling operations utilizing the hollow stem auger drilling technique.

A. Hollow Stem Auger

1. Soil borings drilled by the hollow stem auger utilize continuous flight hollow stem augers.

2. Augers, samplers, and all downhole equipment are steam cleaned prior to use and between borings to minimize the potential for cross-contamination.

3. The Kleinfelder geologist observes the work, visually logs the soils, and collects samples at appropriate intervals.

4. The Unified Soil Classification System is utilized to classify soils encountered. Additional geologic observation is noted as appropriate. A Munsell Soil Color Chart is used in documenting soil color. Rocks are classified by the Colorado School of Mines "Classification of Rocks" (Travis, 1955).

5. Soil samples destined for laboratory analysis are collected by either a modified Porter sampler or a modified Sprague & Henwood split barrel sampler. Both samplers use three 6-inch long by two-inch diameter (o.d.) tubes.

   Various tubes can be utilized to accommodate the type of analysis necessary:

   Brass - All organics and general analyses (not to be used for copper or zinc analyses)

   Stainless - All organics and metals analyses for copper and zinc (not to be used for chrome or nickel analyses)

   Plastic - All metals analyses (not to be used for organics)

6. The tubes are cleaned and prepared in the JHK laboratory. Tubes are scrubbed, inside and outside, with a brush and TSP. They are next steam cleaned, and packed in clean buckets with lids. Tubes are delivered to the drilling site in these closed buckets to preserve the state of cleanliness.

7. After the sample(s) have been removed from the sampler, the sampler is completely disassembled and scrubbed in TSP and tap water. It is then rinsed in two separate tap water baths and reassembled with three clean tubes.

8. Dirty tubes are field washed in TSP, rinsed with water, and placed in buckets for transport back to the JHK laboratory for cleaning and preparation.

9. The sampler is driven by a 140 pound hammer with a 30-inch free fall. Blow counts are recorded as number of blows per 6 inches of drive.

10. The sampler is driven 18 inches at each sampling interval. The first (or lowest) tube is generally retained as the sample for analysis. The other two tubes are retained for back-up or split samples when required.

11. A sand catcher is used in the sampler where loose soils are anticipated. This will prevent the soil from falling out of the sampler.

12. After retrieval, the sample is visually logged and immediately sealed with teflon film-lined caps, labeled, and chilled. Clean field ice chests and chemical ice ("blue ice") are used to keep the samples cold until delivered to the chemical laboratory.

13. Samples are delivered to the laboratory the same day they are collected, if physically possible. If the samples must be held until the next day, they are kept frozen in a secure freezer in the JHK facility.

14. Sample control is maintained by a Chain of Custody form which accompanies the sample. The form documents the time, date, and responsible person during each step in

the transportation process.

15. Soil samples are numbered in the following manner:

S-XX-Y

Where:

S - designates soils sample
XX - boring number
Y - footage depth of sample

For example, S-01-10 indicates a soil sample from Boring No. 1, from a depth of 10 feet.

16. The complete labeling of the soil sample tube includes:

a. Job number (client number) with appropriate phase number included after the dash (i.e., Q1101-1)

b. Sample number

c. Date

This information should be written as:

a. Q1101-2

b. S-01-10

c. 3-20-85

17. An indelible non-water soluble marking pen must be used to mark the tubes.

APPENDIX

PROTOCOL FOR MONITORING WELL SAMPLING

A. Decontamination

1. The following procedure details the routine that is employed in the decontamination of groundwater sampling equipment prior to sample collection.

2. Exterior surface of sampling tubes are decontaminated by steam-cleaning during withdrawal from very well.

3. Sample pump is disassembled and the used bladder removed.

4. All pump components are then steam-cleaned and rinsed in distilled water.

5. Pump is reassembled with a new bladder installed.

6. Teflon sampler lines are pressure washed with 5 to 10 gallons of clean hot water through direct connection to steam-cleaner.

7. Five gallons of distilled water are than pumped through entire system.

8. Prior to sample collection, a minimum of five well volumes are purged from the well to permit collection of a representative groundwater sample for the aquifer penetrated.

B. Purge Volume Determination

1. The following procedure is followed to determine the appropriate purging volume prior to well sampling.

2. The depth-to-water is measured by a clean electric water level indicator. Measurement datum is the top of fill ring or top or well protector.

3. Depth to the bottom of the well is measured by a clean tape and plumb bob. If possible, this is compared to the well construction log to determine inconsistencies, i.e. damaged casing, sediment in casing, etc.

4. Water volume is calculated by multiplying total water depth by the inside diameter of the casing. This

figure is one well volume.

C. Well Purging and Sampling

1. Prior to sampling, a minimum of three to five well volumes are purged from each well to ensure that water sampled is representative of the groundwater within the formation.

2. Measurements of pH, conductivity, and temperature are taken at frequent intervals during the purge. Stabilization of these values indicates that representative formation fluids are being removed from the well.

3. In the event that the well is pumped dry, an alternate procedure will be followed. Once a well is pumped dry, the water that enters the well during recovery is, by definition, representative formation water. The well will, therefore, be pumped dry and allowed to recover to 80% or more of the original water level.

4. Purge water is pumped directly into barrels on site until the proper method of disposal is determined.

5. Samples are pumped directly into sampling bottles prepared by the State-certified laboratory contracted for the particular job. They are labeled and placed in refrigerated coolers for transport to the laboratory.

6. Samples are delivered directly to the lab on the same day of sampling by courier, whenever practical. If next day delivery is necessary, the samples are kept refrigerated at 4_{oC} overnight and delivered to the laboratory the following morning.

7. Samples are accompanied by a Chain of Custody form which documents the time, date, and responsible person during each step of the transportation process.

8. The JHK coded sample numbering system allows identification of sample and client to JHK, while not revealing the client to the laboratory or other interested parties.

9. Water samples are numbered in the following manner:

W-XX-YY

Where:

W - designates water sample
XX - well number
YY - sequential sample number

For example, W-01-22 indicates a water sample from Well Number 1. The sample is the twenty-second water sample taken at the site.

10. The complete information on the sample label includes:

    - Date and time
    - Client job number (never client name)
    - Sample number
    - Initials of sampler
    - Analysis desired (if known)
    - Preservatives in sample bottle (usually noted by lab)

11. Each sample bottle is given a separate sequential number.

D. Quality Control

To monitor the precision and accuracy of the chemical data, the following quality assurance measures will be employed:

1. Duplicate samples will be taken at each sampling site. In the case of 40 ml VOA vials, two vials will be obtained per sample. This ensures that if breakage or trouble with the testing equipment occurs, there is a back-up sample for testing. This also allows a recheck on results if there is an inconsistency or if confirmation of results becomes necessary.

2. Split samples will be collected and analyzed on 25 percent of the monitoring well samples (one per site).

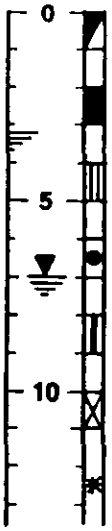
3. Trip blanks (distilled water) will be included by the laboratory to monitor quality control during transportation and testing of the samples.

4. Quality control (QC) samples will be collected to verify that cross-contamination between wells was not occurring during sampling. We propose to collect 2 QC samples per site--one prior to the first sample, and one in the middle of the sapling sequence.

UNIFIED SOIL CLASSIFICATION

Major Divisions			Group Symbols	Pattern	Typical Names
Coarse-grained soils more than 50% retained on No. 200 sieve	Gravels 50% or more of coarse fraction retained on No. 4 sieve	Clean Gravels	GW		Well-graded gravels and gravel-sand mixtures, little or no fines
			GP		Poorly graded gravels and gravel-sand mixtures, little or no fines.
		Gravels with fines	GM		Silty gravels, gravel-sand-silt mixtures.
			GC		Clayey gravels, gravel-sand-clay mixtures
	Sands more than 50% of coarse fraction passes No. 4 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.
			SP		Poorly graded sands and gravelly sands, little or no fines
		Sands with fines	SM		Silty sands, sand-silt mixtures
			SC		Clayey sands, sand-clay mixtures.
Fine grained soils 50% or more passes No. 200 sieve	Silts and Clays liquid limit 50% or less		ML		Inorganic silts, very fine sands, rock flower, silty or clayey fine sands.
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		Organic silts and organic silty clays of low plasticity
	Silts and Clays liquid limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts
			CH		Inorganic clays of high plasticity fat clays
			OH		Organic clays of medium to high plasticity
Highly organic soils			PT		Peat, muck and other highly organic soils

SYMBOLS



WATER SEEPAGE

WATER LEVEL

MODIFIED PORTER SAMPLER

MODIFIED CALIFORNIA SAMPLER

SHELBY TUBE SAMPLE

PITCHER SAMPLE

CONTINUOUS SAMPLE

GRAB SAMPLE

UNSUCCESFUL SAMPLING ATTEMPT (no recovery)

NOTE: The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only.

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & GROUNDWATER CONSULTANTS

Project Number 53-1088-1

BORING LOG EXPLANATION

PLATE 1

WELL CONSTRUCTION	CHEMICAL ANALYSES LABORATORY / FIELD: EPA 8010	PID	BLOWCOUNT	DEPTH (feet)	SAMPLE INTERVAL	SAMPLE NUMBER	LITHOLOGY SYMBOL	U.S.C.S. DESIGNATION	SOIL DESCRIPTION
2" PVC blank. Bentonite Grout. Bentonite Pellets. # 3 sand filter pack. 2" PVC .020 inch slot.	No compounds detected			0				CL	Stiff, moist, dark reddish, brown (5 yr. 3/3), slightly sandy clay.
		0	46	5		S-1-6		CL	Hard, moist, yellowish brown (10 yr. 5/4) slightly sandy clay.
									Stiff, moist, gray clay.
		0	63	10		S-1-10		SC	Dense, moist, very pale brown (10 yr. 7/3) clayey, fine - coarse - grained sand.
								CL	Stiff, moist, strong brown (7.5 yr. 5/8) slightly sandy clay. Grades to olive. ▽ 9:00 am 5/26/88
		0	92	15		S-1-16		SC	Dense, wet, white (1 yr. 8/2) slightly clayey fine - medium grained sand.
		0	84	20				SM	Dense wet reddish yel (7.5 yr. 6/8) silty fine to coarse grained sand.
									Driller reports encountering change in materials / loss of cuttings.
		0	43	25				CL	Hard, moist, pale yellow - olive (5 yr. 7/4) silty clay.
			30						
				30					Terminated drilling in clay: 9:50 am.
				35					
				40					
				45					
				50					

SURFACE ELEVATION: 550
TOTAL DEPTH: 29.5'
DATE DRILLED: 5/26/88

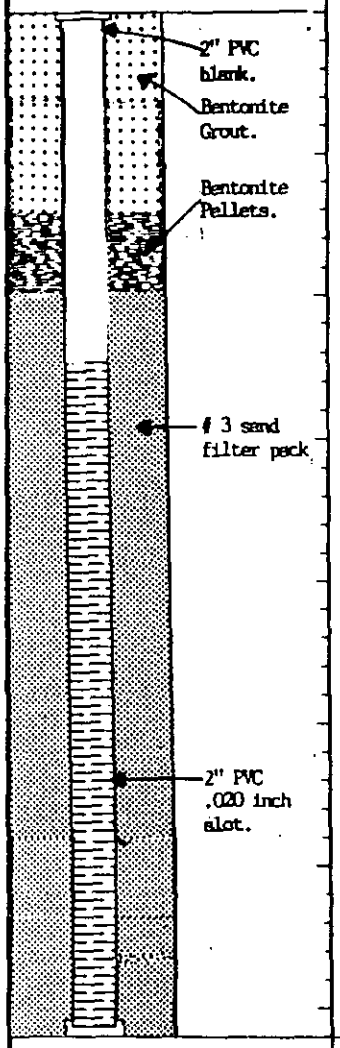
LOGGED BY: Alan Sprott
SUPERVISED BY: Randolph Harris R.G.
DIAMETER of BORING: 8"
WATER ENCOUNTERED AT: 15.5'

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING – LAND AND WATER RESOURCES

LOG of BORING
MW-1

PLATE 2

PROJECT NUMBER **53-1088-1**



WELL CONSTRUCTION	CHEMICAL ANALYSES LABORATORY / FIELD: EPA 8010	PID	BLOWCOUNT	DEPTH (feet)	SAMPLE INTERVAL	SAMPLE NUMBER	LITHOLOGY SYMBOL	U.S.C.S. DESIGNATION	SOIL DESCRIPTION
	No compounds detected			0			ML	ML	Medium dense, dry, yellowish-red (5 yr. 4/6) SILT
				5			GM	GM	Dense, dry, pinkish-gray (5 yr. 7/2) silty GRAVEL
							CL	CL	Stiff, moist, pinkish-gray (5 yr. 7/2) slightly sandy CLAY
				10			SC	SC	Dense, moist, very pale brown (10 yr. 7/3) clayey, fine-coarse grained SAND
		0	90				GM	GM	Silty GRAVEL
									▽ 9:00 pm 5/26/88
			51	15		S-2-16			12:40 p.m.
		0		20					Increasing CLAY, moist
		0	72	25			SC	SC	Dense, moist, yellowish-red (5 yr. 5/8) clayey, fine-coarsed grained SAND
				30					
							CL	CL	Stiff, moist-wet, yellowish-red (5 yr. 5/8) sandy CLAY
			54	35			CL	CL	Hard, moist, black (10 yr. 2/1) CLAY
				40					Add 40 gallons
				45					
				50					

SURFACE ELEVATION:
TOTAL DEPTH: 36 '
DATE DRILLED: 5/26/88

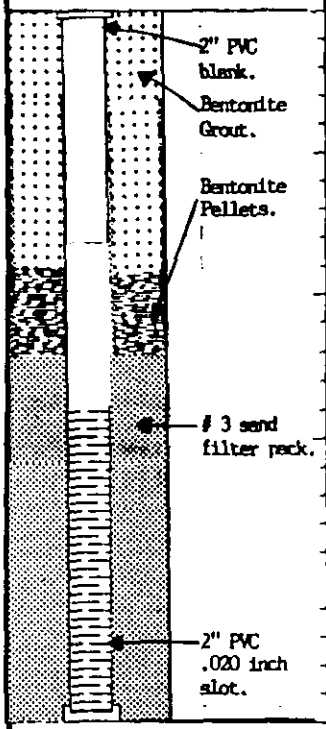
LOGGED BY: Allan Sprott
SUPERVISED BY: Randolph Harris R.G.
DIAMETER of BORING: 8 "
WATER ENCOUNTERED AT: 15 '

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING — LAND AND WATER RESOURCES

PROJECT NUMBER **53-1088-1**

LOG of BORING
MW-2

PLATE 3

WELL CONSTRUCTION	CHEMICAL ANALYSES LABORATORY / FIELD	PID	BLOWCOUNT	DEPTH (feet)	SAMPLE INTERVAL	SAMPLE NUMBER	LITHOLOGY SYMBOL	U.S.C.S. DESIGNATION	SOIL DESCRIPTION
	EPA 8010			0					
2" PVC blank.	No compounds detected							CL	Stiff, moist, yellowish-red (5 yr. 5/8) silty, CLAY
Bentonite Grout.				5				GM	Dense, dry silty GRAVEL
Bentonite Pellets.								CL	Stiff, moist, light brownish-gray (10 yr. 6/2 slightly sandy CLAY
		0	40	10		S-3-11		CL	Hard, moist, yellowish-red (5 yr. 4/6) slightly sandy CLAY ▽ 7:00 am 5/27/88
# 3 sand filter pack.		0	70	15		S-3-16		SC	Dense, moist, white (5 yr. 8/1) clayey fine-medium grained SAND ▽ 9:00 am 5/27/88
				20				CL	Stiff, wet, reddish-brown, sandy CLAY
2" PVC .020 inch slot.								SC	Fine to medium grained SAND TD 231
				25					
				30					
				35					
				40					
				45					
				50					

SURFACE ELEVATION:
TOTAL DEPTH: 25 '
DATE DRILLED: 5/26/88

LOGGED BY: Allan Sprott
SUPERVISED BY: Randolph Harris R.G.
DIAMETER of BORING: 8 "
WATER ENCOUNTERED AT: 18 '

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING — LAND AND WATER RESOURCES

PROJECT NUMBER **53-1088-1**

LOG of BORING
MW-3

PLATE 4

PAGE 1 of 1

WELL CONSTRUCTION	CHEMICAL ANALYSES LABORATORY: EPA 8010	CHEMICAL ANALYSES FIELD: PID	BLOWCOUNT	DEPTH (feet)	SAMPLE INTERVAL	SAMPLE NUMBER	LITHOLOGY SYMBOL	U.S.C.S. DESIGNATION	SOIL DESCRIPTION
2" PVC blank. Bentonite Grout. Bentonite Pellets. # 3 sand filter pack. 2" PVC .020 inch slot.				0			ML		Clayey silt, stiff, moist, dark brown
			81	5		S-07-03 S-07-3.5	GM		Gravelly
	TCE .043 ppm PCE .078 ppm		66	10		S-07-8 S-07-8.5	SC		Clayey medium SAND, dense, moist, yellowish-grey ▽ 9:00 am 5/27/88
				15			SC		Clayey SAND, moist, reddish-brown
				20			SC		Clayey SAND, moist, reddish-brown
									Sandy, CLAY, with some fine gravel, moist
				25					
				30					
				35					
				40					
				45					
				50					

SURFACE ELEVATION:
TOTAL DEPTH: 20 '
DATE DRILLED: 5/10/88

LOGGED BY: Ronald Kofron.
SUPERVISED BY: Randolph Harris. R.G.
DIAMETER of BORING: 8"
WATER ENCOUNTERED AT:

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING – LAND AND WATER RESOURCES

PROJECT NUMBER 53-1088-1

LOG of BORING
MW-4

PLATE 5

PAGE 1 of 1

WELL CONSTRUCTION	CHEMICAL ANALYSES LABORATORY / FIELD: EPA 8010	PID	BLOWCOUNT	DEPTH (feet)	SAMPLE INTERVAL	SAMPLE NUMBER	LITHOLOGY SYMBOL	U.S.C.S. DESIGNAT	SOIL DESCRIPTION
2" PVC blank. Bentonite Grout. Bentonite Pellets. # 3 sand filter pack. 2" PVC .020 inch slot.	No compounds detected			0				CL	Stiff, moist, yellowish-red (5 yr. 5/8) silty, CLAY
								GM	Dense, silty GRAVEL
		0	39	10		S-5-11		CL	Hard, moist, yellowish-red (5 yr. 4/6) slightly sandy CLAY
									▽ 3:00 pm 5/27/88
		9	31	15		S-5-16		CL	Hard, moist, olive, sandy CLAY
									▽ 11:00 am 5/27/88
				20					
				25					
				30					
				35					
				40					
				45					
				50					

SURFACE ELEVATION:
TOTAL DEPTH: ~~23~~ 17'
DATE DRILLED: 5/27/88

LOGGED BY: Allan Sproutt
SUPERVISED BY: Randolph Harris R.G.
DIAMETER of BORING: 8 "
WATER ENCOUNTERED AT: 17 '

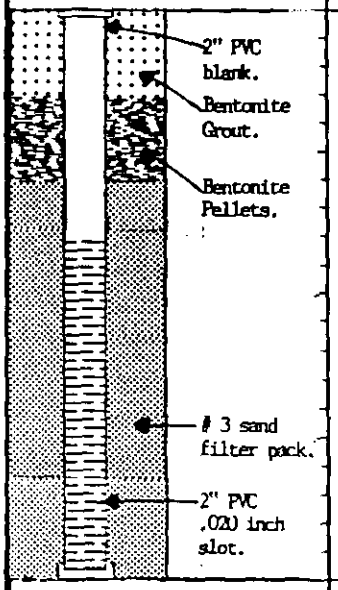
J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING — LAND AND WATER RESOURCES

PROJECT NUMBER 53-1088-1

LOG of BORING
MW-5

PLATE 6

PAGE 1 of 1

WELL CONSTRUCTION	CHEMICAL ANALYSES LABORATORY / FIELD: EPA 8010	PID	BLOWCOUNT	DEPTH (feet)	SAMPLE INTERVAL	SAMPLE NUMBER	LITHOLOGY SYMBOL	U.S.C.S. DESIGNAT	SOIL DESCRIPTION
				0					
2" PVC blank.	No compounds detected							CL	Soft, moist, brownish-red, slightly sandy CLAY
Bentonite Grout.								GM	Hard, moist, grey, silty GRAVEL
Bentonite Pellets.				5				SC	Dense, moist, olive-grey, fine-medium grained SAND
		0	31	10		S-6-11		CL	▽ Hard, moist, olive, CLAY ▽ 4:00 pm 5/27/88
# 3 sand filter pack.		0	47	15		S-6-16		SC	Dense, moist, yellowish-red, slightly clayey, fine-medium grained SAND ▽ 12:30 pm 5/27/88 wet
2" PVC .020 inch slot.				20					
				25					
				30					
				35					
				40					
				45					
				50					

SURFACE ELEVATION:
TOTAL DEPTH: 20'
DATE DRILLED: 5/27/88

LOGGED BY: Allan Sprott
SUPERVISED BY: Randolph Harris R.G.
DIAMETER of BORING: 8"
WATER ENCOUNTERED AT:

J.H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
MATERIALS TESTING — LAND AND WATER RESOURCES

PROJECT NUMBER 53-1088-1

LOG of BORING
MW-6

PLATE 7

PAGE 1 of 1

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

June 1, 1988

Kleinfelder
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
PROJECT: No. 53-1088-1, Los Posas & Armorlite, San Marcos

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO: B052788-1/12 shown above.

Six water samples and three soil samples were received by CRL in a chilled state, intact, and with a chain-of-custody attached.

ORGANIC ANALYSES QA/QC SUMMARY

Matrix: Soil

Date	Parameter (Method)	Average Recovery (%)	Recovery Limits (%)	Duplicate RPD (%)	RPD Limits (%)
5/27	1,1 DCE	103.	70 - 105	13.	30.
	t1,2 DCE	120.	70 - 105	5.	30.
	TCE	125.	73 - 99	8.	30.
	PCE	130.	70 - 97	8.	30.

Matrix: Water

5/27	1,1 DCE	92.	70 - 105	9.	30.
	t1, 2 DCE	100.5	70 - 105	19.	30.
	TCE	115.	73 - 99	9.	30.
	PCE	125.	70 - 97	8.	30.

Walter Ryan
Reviewed and Approved

6-4-88
Date

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-06-25

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	ND	ND	.004
Perchloroethene	ND	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-05-21

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	ND	ND	.004
Perchloroethene	ND	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-04-17

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	.043	ND	.004
Perchloroethene	.078	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCh: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-03-13

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	ND	ND	.004
Perchloroethene	ND	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-02-09

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	ND	ND	.004
Perchloroethene	ND	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-01-05

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
Trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	ND	ND	.004
Perchloroethene	ND	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Soil

SAMPLE IDENTIFICATION: S-6-11/16' comp.

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/kg

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.05
trans-1,1-Dichloroethene	ND	ND	.05
Trichloroethene	ND	ND	.05
Perchloroethene	ND	ND	.05

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Soil

SAMPLE IDENTIFICATION: S-5-11/16 comp.

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/kg

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.05
trans-1,1-Dichloroethene	ND	ND	.05
Trichloroethene	ND	ND	.05
Perchloroethene	ND	ND	.05

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052788-1/12
BATCH: B129
DATE SAMPLED: 5/27/88
DATE SAMPLE REC'D: 5/27/88
DATE ANALYZED: 5/27/88
SAMPLE TYPE: Soil

SAMPLE IDENTIFICATION: S-3-11/16 comp.

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/kg

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.05
trans-1,1-Dichloroethene	ND	ND	.05
Trichloroethene	ND	ND	.05
Perchloroethene	ND	ND	.05

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*

Phone:

SHIP TO:

ATTENTION:

Phone No.

SHIPPING INFORMATION

Shipper

Address

Date Shipped

Shipment Service

Airbill No.

Cooler No.

Relinquished by: *(Signature)*	Received by: *(Signature)*	Date/Time
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date/Time
Relinquished by: *(Signature)*	Received by: *(Signature)*	Date/Time
Relinquished by: *(Signature)*	Receive for laboratory by*: *(Signature)*	Date/Time

* Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return original (white) copy to J.H. KLEINFELDER & ASSOCIATES, 9771 Clairemont Mesa Boulevard, Suite G., San Diego, California 92124

Sample Number	Site Identification	Date Sampled	Analysis Requested	Sample Condition Upon Receipt

\B INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

(1) summary of analytical methodology and QA work (blanks, spikes, duplicates)
(2) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis
(3) detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated
(4)
(5)

White - J. H. Kleinfelder & Associates Canary - Laboratory Courtesy Copy Pink - Sampler

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seabcard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

June 1, 1988

Kleinfelder
9771 Clairemont Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Allan Sprott

ANALYSIS NO.: B052688-1/3
BATCH: B128
DATE SAMPLED: 5/26/88
DATE SAMPLE REC'D: 5/26/88
PROJECT: No. 53-1088-1, Los Posas & Armorlite, San Marcos

Enclosed with this letter is the report on the chemical and physical analyses for the samples from ANALYSIS NO: B052688-1/3 shown above.

One water sample and two soil samples were received by CRL in a chilled state, intact, and with a chain-of-custody attached.

ORGANIC ANALYSES QA/QC SUMMARY

Matrix: Soil

Date	Parameter (Method)	Average Recovery (%)	Recovery Limits (%)	Duplicate RPD (%)	RPD Limits (%)
5/26	1,1 DCE	78.8	70 - 105	6.5	30.
	t1,2 DCE	81.2	70 - 105	11.8	30.
	TCE	84.1	73 - 99	2.5	30.
	PCE	82.9	70 - 97	8.1	30.

Matrix: Water

5/26	1,1 DCE	95.7	70 - 105	2.3	30.
	t1,2 DCE	95.7	70 - 105	6.5	30.
	TCE	96.7	73 - 99	5.2	30.
	PCE	95.9	70 - 97	5.5	30.

Bill Grant
Reviewed and Approved

6/6/88
Date

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Alla Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052688-1/3
BATCH: B128
DATE SAMPLED: 5/26/88
DATE SAMPLE REC'D: 5/26/88
DATE ANALYZED: 5/26/88
SAMPLE TYPE: Soil

SAMPLE IDENTIFICATION: S-1-10'

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/kg

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.05
Trans-1,1-Dichloroethene	ND	ND	.05
Trichloroethene	ND	ND	.05
Perchloroethene	ND	ND	.05

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Alla Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052688-1/3
BATCH: B128
DATE SAMPLED: 5/26/88
DATE SAMPLE REC'D: 5/26/88
DATE ANALYZED: 5/26/88
SAMPLE TYPE: Soil

SAMPLE IDENTIFICATION: S-2-16'

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/kg

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.05
Trans-1,1-Dichloroethene	ND	ND	.05
Trichloroethene	ND	ND	.05
Perchloroethene	ND	ND	.05

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

Chemical Research Laboratories, Inc.
MOBILE DIVISION
11631 Seaboard Circle • Stanton, CA 90680
(714) 891-0405 • FAX: (714) 893-6709 • (800) LAB-1CRL

LABORATORY REPORT

TO:
KLEINFELDER
9771 Clairemont Mesa Blvd., Ste. G
San Diego, CA 92124
ATTN: Mr. Alla Sprott
PROJECT: No. 53-1088-1,
San Marcos

ANALYSIS NO.: B052688-1/3
BATCH: B128
DATE SAMPLED: 5/26/88
DATE SAMPLE REC'D: 5/26/88
DATE ANALYZED: 5/26/88
SAMPLE TYPE: Water

SAMPLE IDENTIFICATION: W-01-04

TEST: Chloroethylenes (SW846 - 8010 modified)

UNITS: mg/l

COMPOUND	RESULT	BLANK	DETECTION LIMIT
1,1-Dichloroethene	ND	ND	.004
Trans-1,1-Dichloroethene	ND	ND	.004
Trichloroethene	ND	ND	.004
Perchloroethene	ND	ND	.004

NOTE: All results are blank subtracted.
ND denotes compound was not detected at the detection limit indicated.

CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED ? ☐ YES ☐ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE 02/28/91 | CASE # H25926-001

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: TERESA STOVERN | PHONE: (619)338-2107 | SIGNATURE: [signature]

REPRESENTING ☒ LOCAL AGENCY ☐ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ OTHER _____

COMPANY OR AGENCY NAME: HMMD/DHS

ADDRESS: 1255 IMPERIAL AVE. (STREET) | S.D. (CITY) | CA (STATE) | 92138 (ZIP)

RESPONSIBLE PARTY

NAME: Coca cola and/or 3M ☒ UNKNOWN | CONTACT PERSON: Randolph C. Harris Reg. Geologist | PHONE: (619)541-1145

ADDRESS (STREET) (CITY) (STATE) (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Vacant lot | OPERATOR | PHONE ( )

ADDRESS (STREET) (CITY) (COUNTY) (ZIP)

CROSS STREET

IMPLEMENTING AGENCIES

LOCAL AGENCY: HMMD | AGENCY NAME | CONTACT PERSON: Alec Naugle | PHONE: (619)338-2373

REGIONAL BOARD: SDRWQCB | CONTACT PERSON: Jim Munch | PHONE: (619)265-5114

SUBSTANCES INVOLVED

(1) NAME: Trichloroethene | QUANTITY LOST (GALLONS) ☒ UNKNOWN

(2) Tetrachloroethene ☒ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 05/25/88 | HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☒ OTHER well permit

DATE DISCHARGE BEGAN ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED ? ☐ YES ☐ NO IF YES, DATE

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK
☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE
☒ OTHER _____

SOURCE/CAUSE

SOURCE OF DISCHARGE
☐ TANK LEAK ☒ UNKNOWN
☐ PIPING LEAK ☐ OTHER

CAUSE(S)
☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL
☐ CORROSION ☒ UNKNOWN ☐ OTHER _____

CASE TYPE

CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☒ NO ACTION TAKEN
☐ LEAK BEING CONFIRMED
☐ REMEDIATION PLAN
☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED
☐ PRELIMINARY SITE ASSESSMENT UNDERWAY
☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY)
☐ POLLUTION CHARACTERIZATION
☐ POST CLEANUP MONITORING IN PROGRESS
☐ CLEANUP UNDERWAY

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD)
☐ CONTAINMENT BARRIER (CB)
☐ VACUUM EXTRACT (VE)
☐ EXCAVATE & DISPOSE (ED)
☐ EXCAVATE & TREAT (ET)
☐ NO ACTION REQUIRED (NA)
☐ OTHER (OT) _____
☐ REMOVE FREE PRODUCT (FP)
☐ PUMP & TREAT GROUNDWATER (GT)
☐ TREATMENT AT HOOKUP (HU)
☐ ENHANCED BIO DEGRADATION (IT)
☐ REPLACE SUPPLY (RS)
☐ VENT SOIL (VS)

COMMENTS

H75

HSC 05 (11/89)

County of San Diego

DANIEL J. AVERA
DIRECTOR

LARRY T. AKER
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261
(619) 338-2222 FAX (619) 338-2377

SITE ASSESSMENT AND MITIGATION DIVISION

July 25, 1997

Ms. Ann McDonald
Coca Cola Enterprises-West
P.O. Box 4067
Oakland, CA 94614-4067

Dear Ms. McDonald:

VOLUNTARY ASSISTANCE PROGRAM

DEH FILE NO. H36816-001
LAS POSAS ROAD AND ARMORLITE DRIVE, SAN MARCOS, CA
AND
DEH FILE NO. H25926-001
199 LAS POSAS ROAD, SAN MARCOS, CA

Per your written request, received December 10, 1996, the San Diego County Department of Environmental Health (DEH) has completed review of the environmental documentation prepared by Smith Environmental, Kleinfelder, and Med-Tox Associates for the property referenced above.

DEH concurs with the recommendations presented by Smith Environmental (May 15, 1997) that no further action is required at the site and that the on site groundwater monitoring wells should be decommissioned in accordance with DEH requirements.

Please note that low concentrations of chlorinated solvents were detected in groundwater samples collected at the site. Since these concentrations exceed the State's Maximum Contaminant Level for Drinking Water, DEH has notified the San Diego Regional Water Quality Control Board of the conditions at the site.

Changes in the proposed use of the property may require reevaluation to determine if the change will pose a risk to public health. If contaminated soil is encountered during future site excavation work or utility trenching, the soil should be managed in accordance with the legal requirements at that time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or the Porter Cologne Water Quality Control Act. If previously unidentified

contamination is discovered which may affect public health, safety and/or water quality, additional site assessment and cleanup may be necessary.

Should you require additional assistance please contact Jim Schuck at (619) 338-2908 within 30 days, otherwise this letter will complete DEH's response to your request for assistance.

Sincerely,

CHUCK PRYATEL, Chief
Site Assessment and Mitigation Division

CP:ac

cc: William Madison, Smith Environmental Technologies, Inc.
W.L. MacFarlane, Janmac, Inc.
City of San Marcos, Planning Department

Case Closure Summary
Voluntary Assistance Program

I. AGENCY INFORMATION Date: July 18, 1997

Lead Agency: County of San Diego, Environmental Health, SAM P.O. Box 85261 San Diego, CA 92186-5261	Phone: (619) 338-2222 Fax: (619) 338-2315
DEH Staff Person: Jim Schuck	Title: Environmental Health Specialist

II. CASE INFORMATION

Case Nos. H36819-001 & H25926-001		
Site Name: Coca Cola Property		
Site Addresses: Las Posas Road and Armolite Drive, San Marcos, CA & 199 Las Posas Road, San Marcos, CA		
Property Owner: Coca Cola Enterprises Attn: Ms. Ann Mc Donald	Address: P.O. Box 4067 Oakland, CA 94614-4067	Phone: (510) 613-2717
Party Requesting Assistance: Ms. Ann McDonald	Address: P.O. Box 40673614 Oakland, CA 94614-4067	Phone: (510) 613-2717
Type of Case: Voluntary Assistance (Non Tank)		
RWQCB Approved DEH Oversight: November 13, 1996		

III. SITE CHARACTERIZATION AND/OR INFORMATION

Cause and Type of Contamination: During a 1988 environmental investigation of the property, chlorinated solvents (PCE & TCE) were detected in samples of groundwater.

Site Characterization Complete? Yes

Monitoring Wells Installed? Yes	Total Number: Five	Proper Screened Interval? Yes	Number of Decommissioned Wells: None
Range of Groundwater Levels on the Site? 13.22 to 14.81 feet below grade			Groundwater Flow Direction: south west

Most Sensitive Current Use:
The RWQCB Basin Plan designates groundwater in this area of San Marcos as beneficial for municipal uses

Are Drinking Water Wells Affected?	No	RWQCB Basin Number:	4.52 -- San Marcos HSA
Is Surface Water Affected?	No	Nearest Surface Water Name:	San Marcos Creek (>1000 feet to SW)

Off-Site Beneficial Use Impacts (addresses/locations): none identified

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
NA			

Non-LOP - Underground Storage Tank Oversight handled outside the LOP
Non-Tank - Voluntary Assistance Program

Case Closure Summary
Voluntary Assistance Program

H36819-001 & H25926-001

III. SITE CHARACTERIZATION AND/OR INFORMATION (Continued)

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- BEFORE AND AFTER CLEANUP

Contaminant	Soil(mg/kg)		Water (ug/l)		Contaminant	Soil (mg/kg)		Water (ug/l)	
	Before	After	Before	After		Before	After	Before	After
tetrachloroethene (PCE)	<0.0001	<0.0005	280	13	TPH, 8015	<0.0001	<0.0001	NA	NA
trichloroethene (TCE)	<0.0001	<0.0005	150	22	BTEX, 8020	<0.0001	<0.0001	NA	NA
trans 1,2-DCE cis 1,2 - DCE	<0.0001 <0.0001	<0.0005 <0.0005	<4.0 <4.0	3.6 3.5	TRPH	<50	<50	NA	NA

Comments: Visual evidence of surface contamination (15 square foot area) prompted the investigation of groundwater at the site. Chlorinated solvents, tetrachloroethene (PCE) and trichloroethene (TCE), were detected in groundwater at concentrations exceeding the State's Maximum Contaminant Level for Drinking Water (5 ug/l). Subsurface soil samples collected on site provided no analytical evidence of a source for the PCE and TCE detected in groundwater. The property is vacant with no structures and there is no evidence of past property uses.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin 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

Are there other issues DEH needs to follow up on: No

Site Management Requirements: Any contaminated soil excavated as part of subsurface construction work must be managed in accordance with the requirements of the local agency.

Should corrective action be reviewed if land use changes? Yes

Enforcement Action Taken: none

Enforcement Actions Rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Chuck Pryatel	Title: Chief Site Assessment and Mitigation
Signature:	Date: 7-24-97
Hydrogeologist Concurrence: KMA	Date: 7/24/97

VI. RWQCB NOTIFICATION

Date Submitted to the RWQCB: June 17, 1997	RWQCB Response: Concurs with DEH on 7/17/97
RWQCB Staff: John Anderson	Title: Chief

VII. ADDITIONAL COMMENTS, DATA, ETC.

There exist no environmental conditions on the property that would adversely impact the development of a roadway or the construction of buildings above grade. Subsurface dewatering during onsite construction work may require a waste water discharge permit from the RWQCB. A separate evaluation of the groundwater conditions may be required prior to establishing an on site well for drinking water purposes.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

APPENDIX F

INTERVIEW DOCUMENTATION

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

"Site" = Assessor's Parcel Numbers 219-161-17, -18, -19, and -21
San Marcos, CA

***Please answer *in good faith and to the best of your ability* and elaborate as much as possible on any question answered "yes." Please provide an answer to all questions. Answers of unknown or not applicable are acceptable.**

General Environmental

1) Describe the current uses of the site. How long has the site been used for these purposes?

RAW LAND

2) Describe the structures currently at the site and their usage/occupants and age.

NONE

3) When were the structures constructed, if known?

N/A

4) Were any structures located on the site in the past that are not currently there (i.e., have any structures been demolished)? If yes, what was their function/purpose?

[ ] Yes [ ] No [X] Unknown

5) What is the historical land use of the site? Describe the past uses, owners, and operators of the site. (Be as detailed as possible and note approximate time periods, if known.)

WE ALWAYS KEPT IT AS RAW LAND

6) What type of heating, ventilating, and air conditioning (HVAC) system is located at the site and how is the HVAC system powered? (e.g., roof-mounted electrical, natural gas, etc.)

N/A

7) Are you aware of any environmental issues associated with the site or of potential soil and/or groundwater contamination?

[ ] Yes [X] No

8) Have fill soils been brought to the property?

[ ] Yes [ ] No [X] Unknown

9) Has there been storage of hazardous materials or wastes on the property?

[ ] Yes [ ] No [X] Unknown

10) Have any of the following items been stored on the site in containers greater than 5 gallons?

Paint [ ] Yes [ ] No [X] Unknown
Chemicals [ ] Yes [ ] No [X] Unknown
Pesticides/Herbicides [ ] Yes [ ] No [X] Unknown
Automotive-Related Oils/Fuels [ ] Yes [ ] No [X] Unknown

11) Have there been any spills or releases of chemicals, hazardous substances, or wastes on the property?

[ ] Yes [ ] No [X] Unknown

12) Have any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials been dumped aboveground, buried, or burned on the site?

[ ] Yes [ ] No [X] Unknown

13) Is the site hooked up to a municipal sanitary sewer system or is there a septic tank/system?

[X] Sanitary Sewer [ ] Septic

14) Have there been any underground storage tanks or heating oil tanks on the site?

[ ] Yes [ ] No [X] Unknown

15) Are/were there any subsurface wastewater features, such as sumps, clarifiers, discharge systems, at the site?

[ ] Yes [ ] No [X] Unknown

16) Does the site discharge wastewater, other than domestic wastewater or storm water, into the sewer or onto another property?

[X] Yes [ ] No [ ] Unknown

17) Other than permission for domestic hookup, have any city, county, or other permits for wastewater discharge been issued to the site?

[ ] Yes [X] No [ ] Unknown

18) Is there a transformer, capacitor, or other equipment that may contain PCBs on the site?

[ ] Yes [X] No [ ] Unknown

19) Other than small quantities of legal pesticides used for landscape maintenance (e.g., Roundup), have pesticides, herbicides, or insecticides been applied on the site?

[ ] Yes [X] No [ ] Unknown

20) Are/were there any wells on the site (e.g., water supply wells, groundwater monitoring wells, etc.)

[ ] Yes [X] No [ ] Unknown

21) Are there currently, or were there previously, any pits, ponds, or lagoons on the site?

[ ] Yes [ ] No [X] Unknown

22) Are there currently, or were there previously, areas on the site with stained soil?

[ ] Yes [ ] No [X] Unknown

23) To your knowledge, have adjoining properties been used for industrial activities, such the following? (Please note that an adjoining property is a property that is contiguous with, or directly across the street from the site.)

Gasoline Station [X] Yes [ ] No [ ] Unknown
Printing Facility [ ] Yes [X] No [ ] Unknown
Metal Plating/Manufacturing [X] Yes [ ] No [ ] Unknown
Landfill [ ] Yes [ ] No [X] Unknown
Auto Repair Facility [X] Yes [ ] No [ ] Unknown
Dry Cleaners [ ] Yes [X] No [ ] Unknown
Junkyard [ ] Yes [X] No [ ] Unknown
Waste or Wastewater Treatment [ ] Yes [ ] No [X] Unknown
Storage, Disposal, or Recycling Facility [ ] Yes [ ] No [X] Unknown

24) Are there any known issues related to spills/contamination with adjoining or nearby properties?

[X] Yes [ ] No [ ] Unknown

Legal/Activity and Use Limitations

25) Are you aware of any previously prepared documentation for the site, such as:

- environmental sampling, compliance audit, or assessment reports
- environmental permits
- registrations for aboveground or underground storage tanks
- registrations for underground injections systems
- material safety data sheets (MSDS)
- community right-to-know plans,
- safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans
- geotechnical or hydrogeologic reports
- stormwater documents
- risk assessments
- hazardous waste generator notices?

[ ] Yes [X] No [ ] Unknown

(If yes, are they available for review?)

[ ] Yes [ ] No [ ] Unknown

26) Are you aware of any environmental cleanup liens or activity and use limitations such as engineering controls, land use or deed restrictions or institutional controls associated with the site that are filed or recorded under federal, tribal, state, or local law?

[ ] Yes [X] No

27) Are you aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

[ ] Yes [X] No

28) Are you aware of 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

29) Where did the soil and debris piles on the site come from? How long have they been on the site?
N/A

MIRKO MARRONE
NAME (IN PRINT)

07/08/11
DATE

SIGNATURE

[ ] Owner [ ] Occupant [X] Owner Representative [ ] Other:

***When complete, return questionnaire via email, fax, and/or mail to the following:**

Ms. Lisa Bestard
Senior Project Environmental Scientist
Ninyo and Moore
5710 Ruffin Road
San Diego, California 92123
lbestard@ninyoandmoore.com
(858) 576-1000 Office
(858) 576-9600 FAX

Lisa Bestard

From: Mirko Marrone [mmarrone@pacificaent.com]
Sent: Wednesday, July 13, 2011 10:33 AM
To: Lisa Bestard
Cc: Paul Metcalf; Steve Rosetta; Nick Biancamano; Wileen Mirafuente; Erika D'Agostini
Subject: RE: Follow Up Questions

Hi Lisa,

1) Question Number 16 – My apologies but I made a mistake. It should have been a "No".
2) Question Number 23 – We were told that the gas station to the south of the property had an auto repair component in the past. We don't know the extent of the auto repair work that was being done at the station.
3) Question Number 24 – I have attached a letter received from the county of San Diego.
4) Question Number 29 – We did not do any work at the site. I would assume that the soil and debris piles that you saw during of your visit is the result of illegal dumping.

Thank you.

Mirko Marrone
P A C I F I C A
Real Estate Services, Inc.
Director of Asset Management

From: Lisa Bestard [mailto:lbestard@ninyoandmoore.com]
Sent: Monday, July 11, 2011 2:50 PM
To: Mirko Marrone
Cc: Paul Metcalf; Steve Rosetta
Subject: Follow Up Questions

Mr. Maronne-
I am the environmental consultant working for Palomar Community College on the Phase I and II Environmental Site Assessments for the properties at North Las Posas Road and West Mission Road in San Marcos, California. Thank you for completing the property owner background questionnaire I provided. I reviewed your response and have a few follow up questions based on your responses.

1) Question Number 16: *"Does the site discharge wastewater, other than domestic wastewater or storm water into the sewer or onto another property?"* You responded "Yes." Can you please describe what other type of wastewater the site discharges and to where it discharges?

2) Question Number 23: *"To your knowledge, have adjoining properties been used for industrial activities, such as the following?"* You indicated that to your knowledge adjacent properties had been utilized for "Metal Plating/Manufacturing" and "Auto Repair Facility." Can you please indicate which adjacent properties where utilized for metal plating/manufacturing and auto repair? Also, please provide any additional information you have about these facilities and any environmental issues you are aware of, if any.

3) Question Number 24: *"Are there any known related to spills/contamination with adjoining or nearby properties?"* You responded "Yes." Can you please elaborate on which adjacent or nearby property(ies) you are aware of that have known spills/contamination and provide additional information you have about these facilities and any environmental issues you are aware of, if any.

4) Question Number 29: "Where did the soil and debris piles on the site come from? How long have they been there?" You responded "N/A," which I assumed to mean not applicable. However, during our site reconnaissance numerous piles of soil and debris, consisting of concrete, trash, burned wood, etc., were observed on the site, primarily in the northern portion. Do you know where these piles of soil and debris came from and how long they have been on the site?

Thank you for your time. Please feel free to e-mail me or call me at the number provided below if you have any questions or would like clarification on any of my questions.

Thank you,

Lisa Bestard
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 (x1279)
(858) 576-9600 (Fax)
lbestard@ninyoandmoore.com
Experience . Quality . Commitment

"Celebrating 25 Years"

Lisa Bestard

From: Lisa Bestard
Sent: Monday, July 18, 2011 9:22 AM
To: Lisa Bestard; 'Mirko Marrone'
Cc: 'Paul Metcalf'; 'Steve Rosetta'; 'Nick Biancamano'; 'Wileen Mirafuente'; 'Erika D'Agostini'
Subject: RE: Follow Up Questions

Mr. Maronne-
I wanted to check back in with you to see if you had any additional information regarding the metal plating/manufacturing facility you indicated was adjacent to the site. I have not been able to find any other documentation of such a facility adjacent to the site. I would like to be able to issue our report in the next day or two, so any information you can provide would be appreciated.

Thank you,

Lisa Bestard
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 (x1279)
(858) 576-9600 (Fax)
lbestard@ninyoandmoore.com
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"Celebrating 25 Years"

-----Original Message-----
From: Lisa Bestard
Sent: Wednesday, July 13, 2011 10:43 AM
To: 'Mirko Marrone'
Cc: Paul Metcalf; Steve Rosetta; Nick Biancamano; Wileen Mirafuente; Erika D'Agostini
Subject: RE: Follow Up Questions

Mr. Maronne-
Thank you again for your assistance. In regards to Question 23, you had marked metal plating/manufacturing as site use for adjoining properties. To which property were you referring and do you have any additional information regarding the facility?

Thank you,

Lisa Bestard
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 (x1279)
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Thank you.

Mirko Marrone
P A C I F I C A
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Sent: Monday, July 11, 2011 2:50 PM
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Thank you for your time. Please feel free to e-mail me or call me at the number provided below if you have any questions or would like clarification on any of my questions.

Thank you,

Lisa Bestard
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lbestard@ninyoandmoore.com
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"Celebrating 25 Years"

APPENDIX G

QUALIFICATIONS OF THE ENVIRONMENTAL PROFESSIONALS

LISA BESTARD, REA, OSHA

SENIOR PROJECT ENVIRONMENTAL SCIENTIST

EDUCATION

B.A., Biology, 2001, University of San Diego

REGISTRATIONS AND CERTIFICATIONS

REA 08319 (California)

40-Hour OSHA HAZWOPER Certification

First Aid/CPR Certification

Certified Niton XRF Spectrum Analyzer

Transportation Worker Identification Credential

Caltrans Water Pollution Control on Construction Sites Certification

EXPERIENCE HIGHLIGHTS

Centre City Development Corporation, On-Call Approved Consultant Contract

San Diego County Regional Airport Authority, On-Call Contract

Caltrans, Statewide Contract

San Diego Unified Port District, Environmental Contract

San Diego Unified School District, Environmental On-Call Contract

PROFESSIONAL AFFILIATIONS

San Diego Environmental Professionals

Women's Environmental Council

Association of Environmental Professionals

As a Senior Project Environmental Scientist for Ninyo & Moore and a California Registered Environmental Assessor, Ms. Bestard prepares cost estimates and project budgets; performs Phase I and II Environmental Site Assessments at a variety of sites (e.g., gas stations, maintenance yards, schools, industrial and residential properties, etc.); prepares work plans, permit requests, reports, and other documents; interfaces with regulatory agencies; conducts groundwater monitoring utilizing a variety of methods; and, provides project oversight for remediation projects.

REPRESENTATIVE PROJECT EXPERIENCE

Centre City Development Corporation, East Block of East Village Green, Phase I Environmental Site Assessments and Remediation Cost Estimates, San Diego, California: Prepared a Phase I Environmental Site Assessment report and subsequent updates for six parcels in downtown San Diego as part of the East Block of East Village Green development project. The reports were prepared in accordance with the clients specific scope of work, American Society of Testing and Materials Standard Practice E1527-05 and the United States Environmental Protection Agency's All Appropriate Inquiry. The project involved coordinating with multiple property owners and tenants and researching a long development history (pre-1900). After the Phase I Environmental Site Assessment reports were completed, letter reports were prepared for each property owner estimating the potential remediation costs the client may incur during redevelopment. The costs were utilized by the client to negotiate purchase prices for the properties. Services also included attending negotiation meetings with the client's attorney's and property owners.

Centre City Development Corporation, West Block of East Village Green, Phase II Environmental Site Assessment and Remediation Cost Estimates, San Diego, California: Based on the recommendations of the Phase I ESA, Ninyo & Moore performed geophysical surveys to evaluate the possible presence of underground storage tanks on two properties. Hand auger borings were also advanced and soil samples collected on four properties to evaluate shallow soil conditions. Based on the findings of the Phase I ESA, geophysical surveys, and soil sampling activities, Ninyo & Moore prepared remediation cost estimates for each property owner. Challenges of the project include interfacing with multiple property owners to gain site access and allocating costs by property owner. The goals of the assessment were to provide additional information to CCDC for remediation planning.

City of San Diego Sewer and Water Infrastructure Design Services, Design – Build 554 Water Projects, Water Groups 901, 902, 903, 904, and 905CI: Prepared five Initial Site Assessment (ISAs) reports for the proposed alignment, approximatley 40,000 linear feet, to identify facilities in the vicinity that had the potential to have impacted soil. Specific tasks performed included a review of readily available maps and environmental reports pertaining to the alignment, review of federal, state, and local regulatory agency databases and select files, site reconnaissance, review of historical documents, including historical aerial photographs and city directories, and impact analysis. Based on the results of the ISAs, Ninyo & Moore consulted with the client on the selection of boring locations. Twelve borings were advanced in areas throughout the alignment. Soil samples were collected and analyzed to evaluate the potential impacts to soil that may be encountered during construction activities. The results indicated that there was the potential to encounter impacted soil in four of the locations evaluated along the pipeline alignment. The project involved obtaining boring permits and traffic control permits and performing geophysical surveys of the selected locations to prevent potential utility conflicts.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

Centre City Development Corporation, San Diego, California: Prepared a Phase I Environmental Site Assessment report for an existing school property in the Little Italy neighborhood of downtown San Diego as part of a potential development project. The report was prepared in accordance with the clients specific scope of work, American Society of Testing and Materials Standard Practice E1527-05 and the United States Environmental Protection Agency's All Appropriate Inquiry. The project involved researching a long development history (early 1900s) with multiple properties of potential environmental concern in the site vicinity. A subsequent report was prepared summarizing additional research into the site vicinity requested by the clien'ts legal counsel. After the Phase I Environmental Site Assessment report was completed, a letter report was prepared estimating the potential remediation costs the client may incur during redevelopment. Services also included attending negotiation meetings with the client's attorney's and property owners. A Phase I Environmental Site Assessment update report is currently being prepared.

T.Y. Lin, Harbor Drive Pedestrian Bridge, San Diego, California: Prepared the initial site assessment, soil management plan, and community health and safety plan and provided construction oversight services for the project, which was within areas known to be impacted by a former burn site, manufactured gas plant, and oil pipelines. Project activities also included provided oversight for waste characterization and disposal, coordinated with the on-site contractor, provided regulatory agency interfacing, provided litigation support, and prepared a project closeout report.

Centre City Development Corporation, Soil Remediation and Export Monitoring Services, 6th and K Parkade, San Diego, California: Provided environmental services for the assessment and remediation of burn ash and petroleum hydrocarbon contamination in a one city block area adjacent to Petco Park. Soil excavation monitoring services included documenting the removal of approximately 9,000 tons of contaminated soil for off site disposal and 27,000 cubic yards of clean soil for off site reuse. A health risk assessment was also completed for the site using available contaminant data. A closure report summarizing the data collected was prepared for the County of San Diego Department of Environmental Health. Project responsibilities also included oversight of remedial excavation, segregation, profiling, disposal of soil with elevated concentrations of metals, polynuclear aromatic hydrocarbons, and petroleum hydrocarbons, and preparation of the Closure Report.

SDUSD, Normal Heights Elementary School, Preliminary Environmental Assessment (PEA) and Removal Action, San Diego, California: Provided environmental services to evaluate the potential impacts of lead-based paint to soil from the demolition and weathering of current and/or historical buildings at a proposed school site. A PEA recommending the excavation of lead-impacted soil at the site was submitted to the Department of Toxic Substances Control (DTSC) for review. Based on coordination with SDUSD and DTSC representatives, Ninyo & Moore prepared a Removal Action Work Plan (RAW) for the property. The RAW was approved and the removal action was completed. A completion report was submitted to the DTSC, which granted a determination of no further action with regard to lead in soil. Project responsibilities included the collection of soil samples, analysis of soil samples for lead using a Niton XRF, preparation of a PEA Report, preparation of the RAW, implementation and oversight of the removal action, and preparation of the closeout report. Soil excavation monitoring services included the documentation of the removal of approximately 3,000 tons of contaminated soil for disposal.

Jacobs, United States Federal Courthouse, Site Assessment and Remediation, San Diego, California: Assisted with the site assessment and remediation of the new Federal courthouse site. The goal of the assessment was to pre-characterize the soil for waste disposal profiling and develop a soil management plan (SMP) for use during the grading and excavation of site soils during construction. Site assessment data was utilized to develop the SMP that was incorporated into the bid specifications and provided to contractors to assist in the development of a dewatering system. Remediation oversight services were provided during excavation and grading of the site during two phases of work. Services during the first phase included marking out locations for excavation where contaminated soil was previously identified, segregating soil into separate stockpiles based on analytical results, collecting confirmation samples to verify that contaminated soil had been removed, completing waste profiles for each stockpile, and transporting soil under manifest to the appropriate off-site facilities. During the second phase services included performing pre-characterization sampling of previously inaccessible areas, providing remediation oversight and monitoring during grading and excavation activities, preparing and implementing a Community Health and Safety Plan, submitting a notice of intent to the Regional Water Quality Control Board under Conditional Waiver No. 8, and receiving approval for the unrestricted export and reuse of formational soil at the site. The second phase of work is currently ongoing.

STEPHAN A. BECK, PG, HG, CEG, EM, REA II

PRINCIPAL ENVIRONMENTAL GEOLOGIST

EDUCATION

M.A., Geology, 1981, California State University, Fresno

B.A., Geology, 1976, University of California at Santa Barbara

REGISTRATIONS AND CERTIFICATIONS

PG 4375 (California)

CEG 1512 (California)

HG 126 (California)

REA I 2181 (California)

REA II 20110 (California)

PG 33080 (Arizona)

EM 1545 (Nevada)

PG 2234 (Wyoming)

OSHA 40-hour Health and Safety Training (with annual updates)

OSHA 8-hour Health and Safety Supervisor Training

County of San Diego Environmental Consultant Certification

Data Quality Objectives/Data Quality Assessment, 1997, Naval Facilities Engineering Service Center

Professional Certificate, Hazardous Materials Management, 1989, University of California at San Diego

Hydrogen Sulfide Safety, 1987, ESSE International, Inc.

EXPERIENCE HIGHLIGHTS

Caltrans, District 11 Contract

San Diego Unified Port District, Environmental Contract

County of San Diego Burnsite Contract

San Diego County Regional Airport Authority On-Call Contract

PROFESSIONAL AFFILIATIONS

International Society of Environmental Forensics

National Groundwater Association

San Diego Association of Geologists

San Diego Environmental Professionals

Mr. Beck's project experience includes soil, soil vapor, sediment, sludge, surface water, groundwater and soil vapor surface and subsurface site assessments, hazardous building materials, human health and ecological risk assessments, remedial design, and remedial/removal actions involving volatile and semi-volatile organic compounds, polychlorinated biphenyls, metals, refined petroleum products, and pesticides, underground storage tanks, radiological surveys, and various phases of hydrologic/groundwater supply projects. Other experience includes site assessment investigations for real estate transfers, including Navy property, school sites, power and coal gasification plants, Brownfields, pipeline, transportation and railroad rights-of-way, regulatory compliance involving U.S. Environmental Protection Agency, California Department of Toxic Substances Control, California Fish and Game Department, Regional Water Quality Control Board, Department of Health Services, Air Pollution Control District, California Integrated Waste Management Board, State Water Resources Control Board, and California Coastal Commission, environmental construction management services, characterization at NPL sites, RCRA, SARA, CERCLA, TSCA, CWA, SWDA, and CIWMB projects, technical studies for inclusion in CEQA/NEPA documents, preliminary endangerment assessments, expert witness and litigation support, enhanced oil recovery projects, and extensive drilling in the U.S. and abroad.

REPRESENTATIVE PROJECT EXPERIENCE

Transportation Port, and Airport Authorities, Various Locations, California: Program Manager, Principal Environmental Geologist, QA/QC Manager, and Technical Advisor for task order contracts involving concurrent projects at multiple locations with the Metropolitan Transit Development Board, North County Transit District, Orange County Transportation Authority, Riverside County Transportation Commission, San Diego Unified Port District, Port of Los Angeles, Port of Long Beach, San Diego County Regional Airport Authority, and Los Angeles County Metropolitan Transit Authority. Mr. Beck has provided Program/Project management, technical input, data analysis and QA/QC, report preparation, and liaison and negotiation with regulatory agencies regarding Phase I and II assessments of soil, soil vapor and groundwater for acquisition of railroad rights-of-way, power generation facilities, and Navy property, geophysical surveys, preliminary endangerment assessments, fate and transport studies, soil and groundwater remediation, RI/FS, RAPs, removal actions, permitting, regulatory compliance, hazardous building material surveys and abatement, public participation plans, CEQA/NEPA technical studies, community and worker health and safety monitoring, construction dewatering, sheetpile cutoff walls, abandonment of hazardous materials pipelines, expert witness services, and litigation support.

Metropolitan Transit Development Board, On-Call 5-Year Environmental Services Contract, San Diego County, California: Contract Manager and Principal Environmental Geologist for this on-call contract. Mr. Beck's services have included third party review, regulatory liaison, site assessments, permitting, stormwater compliance, construction management services, hazardous materials management and disposal, and lead and asbestos abatement oversight. Most recently, Mr. Beck has been integrally involved in the Mission Valley East Light Rail Extension project, providing critical senior technical expertise and quality review on stormwater pollution prevention protocols.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

San Diego Unified Port District, San Diego, California: Since 1994, Mr. Beck has been Program Director, Project Manager, Technical Advisor, and QA/QC Manager on numerous Port District on-call site assessment contracts involving Phase I due diligence, Phase II investigation, National Contingency Plan, Preliminary Endangerment Assessment, Remedial Investigation, Feasibility Studies, Risk Assessment, Public Participation Plans, Remedial Action Plans, NEPA/CEQA studies, and dealing with regulatory compliance issues and public concerns. Mr. Beck's involvement on such projects as the San Diego Convention Center Expansion and the Naval Training Center Landfill, has led to the swift and successful completion of these high profile, environmentally sensitive projects. Mr. Beck continues to provide technical input, QA/QC management, and regulatory liaison and negotiation for the former Campbell Shipyard remediation (landside and sediment), the East Parking Lot remediation of coal gasification wastes, the Tow Basin PCB remediation, and the assessment of contamination at the future Spinnaker Hotel site.

Centre City Development Corporation (CCDC), On-call Environmental Consulting Services Contract, San Diego, California: Contract Manager and Principal Environmental Geologist on this on-call contract. Our services on this contract in the past years have included performing Phase I and Phase II Environmental Assessments on Downtown San Diego properties slated for purchase and redevelopment, third-party review of environmental consultants reports, and development and implementation of soil management protocols on construction sites within the CCDC jurisdiction. Mr. Beck performed complex third-party reviews and acted as Technical Liaison for the CCDC, working with stakeholders and regulators on complex urban redevelopment projects. As an example, Mr. Beck authored and has helped to implement the conclusions of a hazardous materials constraints analysis as part of the Downtown Community Plan Update and Master Environmental Impact Report. The analysis presented a summary of current downtown San Diego redevelopment trends in hazardous materials management from a regulatory and practical perspective, suggested methods that have proven effective in the identification, assessment, and mitigation of environmental issues, and provided general conclusions regarding the potential impact of hazardous materials releases on redevelopment in the 1500 acre downtown area. Mr. Beck was commended by the CCDC and other key downtown stakeholders for this concise and technically sound planning document.

San Diego County Regional Airport Authority (SDCRAA) On-Call Services Agreement, San Diego, California: Principal Environmental Geologist for this contract, provided technical input and services to SDCRAA regarding environmental issues pertaining to airport operations, maintenance, construction, and expansion.. Mr. Beck also is Principal Environmental Geologist and Contract Manager for the environmental constraints study for the final alternative sites that will considered as potential locations for either a new airport or the expansion of existing facilities.

California Integrated Waste Management Board (CIWMB) Closed, Illegal and Abandoned Disposal Site Investigation Program, Various Locations, California: Principal-in-Charge and Technical Advisor for the Closed, Illegal and Abandoned (CIA) Site Investigation Program. This contract includes subsurface investigations of illegal disposal sites, solid waste disposal and co disposal sites where further site characterization is necessary for monitoring, enforcement action, or site cleanup. Investigations have included excavating and logging trenches and test pits and drilling borings to characterize subsurface materials, delineation of the extent of burned wastes or other buried wastes to evaluate recommended remedial action. The disposal site projects have all been sites where there has been an identified potential risk to human health and the environment.

NTC Inactive Landfill, San Diego, California: Principal-in-Charge and Technical Advisor for the Naval Training Center Inactive Landfill. The project involved identifying, delineating and characterizing buried wastes, a geotechnical investigation, evaluating remedial action alternatives, providing cost estimates for implementing corrective action, extensive interfacing with the client, RWQCB, CIWMB and other agencies, and presentation of data at various meetings and to technical advisory boards. A subsequent subsurface investigation to delineate the extent of burned wastes within the site and in outlying areas and to characterize the burn material in accordance with LEA requirements. Principal reviewer of the remedial action plan to clean close the site by removing the wastes and affected media.

County of San Diego Burnsite and Landfill Engineering Services As-Needed Contract, Various Locations, San Diego County, California: Principal-in-Charge and Technical Advisor for an on-call environmental services to the County of San Diego Department of Public Works as part of its three year, $500,000, Burn Site and Landfill Engineering Services As-Needed Contract. The general scope of work for this contract focuses on conducting investigations and remedial action at County inactive solid waste disposal sites, most of which are former burn sites. The specific engineering services required by the County include characterizing and delineating former burn sites; preparing landfill closure and post-closure maintenance plans; preparing construction plans, specifications, and cost estimates for landfill maintenance projects; implementing remedial action plans, preparing of health and safety plans; value engineering; and assistance during the bidding process for construction activities.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

Bay to Bay Link Feasibility Study, San Diego, California: Principal Environmental Geologist for an environmental (hazardous material) assessment consulting services as part of a feasibility study for the Bay to Bay Link project. The redevelopment project consists of four alternative concepts: a 1.5-mile long, 15 to 20 foot deep, navigable boat channel from San Diego Bay to Mission Bay; a navigable boat channel with a link to San Diego Bay; an area of two 1.5-mile long, 10-foot deep, non-tidal boat channels; and an urban park linkage alternative. The waterway development concepts also involved marinas, bridge overpasses, underpasses at an existing highway, and modification of the San Diego River flood control levee. The alternative included pedestrian pathways, bikepaths, greenbelt strips, parks, utility relocations, and development. Mr. Beck provide review of agency files, in-house data, aerial photographs and other available documents, which were utilized to evaluate the location and characterization of underground storage tanks (UST's), old landfills, soil and groundwater contamination areas and potential sources of hazardous materials.

Former Campbell Shipyard Permit Support, San Diego, California: Principal Environmental Geologist for Former Campbell Shipyard Permit Support services. The project will consist of dredging 35,900 cubic yards (cy) of sediment, creation of a 1.6-acre shallow subtidal habitat area, demolition of the existing shipways and marine rails, retrofitting an existing mole pier, repair and reconstruction of 1,230 feet of existing seawall, and placement of rock revetment for seismic retrofit of the existing seawall. Mr. Beck provided technical review of a long-term monitoring plan for the sediment cap in accordance with the WDRs, the Army Corps permit, and a memorandum of understanding between the Bay Council (San Diego Baykeeper, Audubon Society, Sierra Club, and the Environmental Health Coalition) and the Port District. The long-term monitoring plan included the development of parameters of concern, measurement end points, methods to monitor the parameters such as visual dive inspections and cap probing, bathymetric surveys, sediment and pore water sampling, eelgrass monitoring, and bioaccumulation and infaunal studies. The plan was sent to the regulatory agencies (RWQCB, Army Corps, California Dept. of Fish and Game, US Fish and Wildlife Service) and the Bay Council. Mr. Beck also provided technical review of quality assurance project plan (QAPP) for the long-term monitoring of the sediment cap. The QAPP was prepared in general accordance with the United States Environmental Protection Agency Puget Sound Estuary Program, the QAPP template developed by the State Water Resources Control Board staff for the Surface Water Ambient Monitoring Program, and the Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8)

Chula Vista Bayfront Master Plan EIR, Chula Vista, California: Principal Environmental Geologist for a hazardous materials technical study (HMTS) for the Chula Vista Bayfront Master Plan. The technical report will be utilized in the preparation of an Environmental Impact Report (EIR), and is not intended for the purpose of design or construction. The project area consists of a number of parcels along the bayfront in the city of Chula Vista, California totaling approximately 550 acres under the ownership and jurisdiction of the San Diego Unified Port District, including land acquired from B.F. Goodrich, vacant and underutilized areas, and the existing South Bay Power Plant parcel.

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA APNS: 219-161-17, -18, -19, AND -21

PREPARED FOR:
Palomar Community College
1140 West Mission Road, Suite A-4A
San Marcos, California 92069

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
5710 Ruffin Road
San Diego, California 92123

July 8, 2011
Project No. 106088039

July 8, 2011
Project No. 106088039

Ms. Kelley Hudson-MacIsaac
Palomar Community College
1140 West Mission Road, Suite A-4A
San Marcos, California 92069

Subject: Limited Phase II Environmental Site Assessment
North Las Posas Road and West Mission Road
San Marcos, California
APNs: 219-161-17, -18, -19, and -21

Dear Ms. Hudson-MacIsaac:

In accordance with our proposal P-20308 dated June 7, 2011 and your written authorization to proceed dated June 15, 2011, Ninyo & Moore has performed a Limited Phase II Environmental Site Assessment of the above-referenced site. This report describes the field activities and presents soil and soil vapor sample analytical results, a human heath risk assessment, and our conclusions and recommendations.

We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE

Lisa Bestard, REA
Senior Project Environmental Scientist

Stephan A. Beck, PG 4375
Manager, Environmental Sciences Division

LB/SB/gg

Distribution: (1) Addressee (via e-mail)

TABLE OF CONTENTS

Appendices

1. INTRODUCTION

Palomar Community College retained Ninyo & Moore to conduct soil sampling and a soil vapor survey of four vacant parcels located at approximately the northeast corner of the intersection of North Las Posas Road and West Mission Road in San Marcos, California (site, Figure 1). The assessor's parcel numbers of the four site parcels are 219-161-17-, -18, -19, and -21 (Figure 2). This work was conducted in general accordance with our proposal P-20308 dated June 7, 2011 and the County of San Diego Department of Environmental Health (DEH) Site Assessment and Mitigation (SAM) Manual Guidelines (DEH, 2004).

2. PROJECT OBJECTIVE

The objective of this project was to evaluate potential impacts to the site parcels from an adjacent gasoline service station located at 1290 West Mission Road, which borders portions of the site on the south and west (Figure 2), and from historic agricultural land use.

3. BACKGROUND

A review of historic aerial photographs of the site and vicinity indicated that the site parcels may have been utilized for agricultural purposes from approximately 1939 until sometime between 1946 and 1953. Therefore, there is the potential that soil at the site may have been impacted by pesticides and arsenic from historical agricultural operations (Ninyo & Moore, 2011).

The gasoline service station adjacent to the site, located on the northeast corner of West Mission Road and North Las Posas Road, was constructed sometime between 1989 and 1994. An unauthorized release case was opened at the property in 2003 when a release of diesel fuel was identified during piping upgrade activities. Total petroleum hydrocarbons as gasoline and diesel were found in one sample each (i.e., D1 and D5) at concentrations of 125 and 10 mg/kg, respectively. Methyl tertiary butyl ether, toluene, ethylbenzene, and xylenes were detected in the sample collected from beneath dispenser 1 (D1), located on the eastern portion of the property at a depth of 5.5 feet below ground surface (bgs).

A review of regulatory agency files for the property was performed as part of a Phase I Environmental Site Assessment of the site prepared concurrently with this assessment (Ninyo & Moore, 2011). A hand written note to the property file, dated April 7, 2003, indicated that, "They did some overexcavation at the hot spot." However, additional information regarding the excavation work was not on file. A work plan to perform additional assessment work in the vicinity of D1 was conditionally approved by the DEH in 2008. However, a past due notice, dated May 21, 2011 indicated that the proposed work had not yet been completed. Based on this information, the site may have been impacted by the unauthorized release of fuel from the adjacent gasoline service station.

4. TOPOGRAPHIC, GEOLOGIC, AND HYDROGEOLOGIC CONDITIONS

The following sections summarize information regarding regional and site-specific topography, geology, and hydrogeology.

4.1. Regional Topography

Based on a review of the United States Geological Survey (USGS), San Marcos, California, 7.5-minute quadrangle map, the site is situated at an elevation of approximately 580 feet above means sea level. The topography at the site slopes to the south toward San Marcos Creek and San Marcos Lake (USGS, 1996).

4.2. Regional Geologic Setting

The project area is situated in the western portion of the Peninsular Ranges geomorphic province of southern California. The geomorphic province encompasses an area that extends 125 miles from the Transverse Ranges and the Los Angeles Basin, south to the Mexican border, and beyond another 775 miles to the tip of Baja California (Norris and Webb, 1990). The geomorphic province varies in width from 30 to 100 miles, most of which is characterized by northwest-trending mountain ranges separated by subparallel fault zones. In general, the mountain ranges are underlain by Jurassic-age metavolcanic and metasedimentary rocks and Cretaceous-age igneous rocks of what is known as the southern California batholith. The

western portion of the province, in which the site is located, generally consists of Upper Cretaceous, Tertiary, and Quaternary-age sedimentary rocks.

4.3. Site Geologic Conditions

Based on a review of the USGS Geologic Map of Oceanside 30 x 60 Quadrangle, the site is underlain by mid-Cretaceous undivided Tonalite, which is characterized as mostly massive, coarse-grained, light-gray hornblend-biotite tonalite ("granitic" rock) (Kennedy, M.P. and Tan, S.S., 2008).

During this assessment, fill soil was observed in the six soil borings advanced on the site to the maximum depth of exploration of 3.5 feet bgs. The fill soil was generally described as brown, dry, dense fine and silty fine sand with traces of coarse sand and sandy silt. Copies of the borings logs are included in Appendix A.

4.4. Regional Hydrogeologic Conditions

According to the Regional Water Quality Control Board (RWQCB) Water Quality Control Plan for the San Diego Basin, the site is situated within the Richland Hydrologic Subarea (904.52) of the San Marcos Hydrologic Area within the Carlsbad Hydrologic Unit. Groundwater within the Richland Hydrologic Subrea has potential beneficial uses for municipal, agricultural, and industrial service supply (RWQCB, 1994).

4.5. Site Hydrogeologic Conditions

The nearest bodies of water to the site are San Marcos Creek and Lake San Marcos, which are located approximately 1 and 1.5 miles south of the site, respectively (USGS, 1996). According to information obtained from the State Water Resources Control Board GeoTracker database, groundwater levels measured at a nearby industrial facility (located at 1001 Armorlite Drive) ranged from 1 to 12 feet bgs and flowed towards the south (Hargis & Associates, 2011). Note that the industrial facility is at an elevation approximately 20 to 25 feet lower than the site. The groundwater flow direction may vary due to hydrogeologic

properties such as soil porosity and permeability, groundwater extraction, and recharge by irrigation and rainfall.

5. SITE SPECIFIC HEALTH AND SAFETY PLAN

Ninyo & Moore prepared a site-specific health and safety plan (HASP) that identified the potential chemical and physical hazards that may be encountered during the field activities. In addition, the plan provided guidelines for use of personal protective equipment based on site-specific conditions, location and directions to the nearest hospital, and contingency plans. Ninyo & Moore's field activities were performed in accordance with the HASP, and field personnel signed copies of the employee acknowledgement and field health and safety meeting forms prior to the start of work each day.

6. FIELD ACTIVITIES

The following sections describe the field activities associated with soil sampling and the installation and sampling of temporary soil vapor probes at the site.

6.1. Permits and Notifications

Ninyo & Moore notified the client, the property owner, and Underground Service Alert a minimum of 48 hours prior to advancement, installation, and sampling of the temporary soil vapor probes. Boring permits were not required by the San Diego County DEH for this scope of services.

6.2. Boring Locations

The six on-site soil boring locations were placed to provide horizontal coverage of the site area to evaluate for potential impacts from previous agricultural land use. Eight soil vapor sample locations were placed directly along the site boundary with the adjacent gasoline service station and four soil vapor sample locations were stepped out from 40 to 80 feet be-

yond the locations along the boundary (Figure 3). The locations were selected to evaluate potential impacts to the site from the adjacent gasoline service station.

6.3. Geophysical Survey

On June 17, 2011, Subsurface Surveys & Associates assessed the soil vapor and soil boring locations at the site to mark potential buried utilities or other subsurface anomalies. A combination of electromagnetic induction, magnetometry, and ground penetrating radar was utilized. When underground utilities were identified in the vicinity of a boring location, the location was moved accordingly.

6.4. Soil Vapor Sampling

On June 21, 2011, Ninyo & Moore personnel observed the advancement of 12 temporary soil vapor probes (Figure 3). Soil vapor probe were advanced by H&P Mobile Geochemistry (H&P), a bonded, C-57 licensed drilling contractor, using a truck-mounted direct-push drill rig. Nine of the probes were advanced to 5 feet bgs (SV1 through SV3 and SV6 through SV12). Due to refusal, three soil vapor probes were terminated a depths of less than 5 feet bgs (i.e., SV4 and SV5 at 4 feet bgs and SV12 at 3 feet bgs). Temporary soil vapor probes were installed at the terminal depth of the boring. The soil vapor probes were installed in accordance with the 2003 California Environmental Protection Agency and RWQCB Soil Vapor Sampling Guidelines. After the soil vapor samples were collected, the probes were removed, and the borings were backfilled with hydrated granular bentonite.

Soil vapor samples were collected using the 2003 RWQCB Guidelines. An on-site mobile laboratory was utilized to complete a site-specific purge volume test, for 1, 3, and 7 purge volumes from SV-8 at 5 feet bgs. The purge volume test was completed at location SV-8 because it was anticipated that contaminant concentrations would be highest at this location due to its proximity to the source. Based on the analytical results of the purge volume test, one purge volume contained the highest detected concentration of contaminants and therefore, one purge volume was removed prior to collecting soil vapor samples from each temporary soil vapor probe (Table 1 and Figure 3). Soil vapor samples were collected using

glass syringes and submitted to a state certified, on-site mobile laboratory for analytical testing for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) test method 8260B.

6.5. Soil Sampling

Two soil borings, B3 and B4, were advanced to depths of 1.75 and 1.2 feet bgs utilizing a hand auger (Figure 4). The soil samples were colleted at the near surface and at the base of each boring by filling laboratory-supplied glass jars directly from the hand auger bucket. Due to difficult conditions, the remaining boring locations (B1, B2, B5, and B6) were advanced utilizing H&P's truck-mounted direct push rig to depths from 3 to 3.5 feet bgs (Figure 4). Soil samples were generally collected at depths near the surface, at 1.5 to 2 feet bgs, and at the base of each boring location. Soil samples were collected from the direct push rig by removing the sample sleeves from the sampler, cutting the sleeves to the appropriate sampling interval, capping the ends of the sleeves with Teflon sheets, and sealing the sleeves with plastic end caps. After soil samples were collected, the borings were backfilled with the soil cuttings (hand auger locations) or hydrated granular bentonite (direct push locations), and the surface was capped to match existing grade.

Soil samples were labeled with pertinent information and transported to a fixed-base, California-certified analytical laboratory to be analyzed for arsenic by USEPA test method 6010B and organochlorine pesticides (OCPs) by USEPA test method 8081A.

7. SUMMARY OF FINDINGS

This section summarizes the analytical results of the soil and soil vapor sampling. The soil vapor sample results are provided on Table 1 and Figure 3 and the soil sample results are provided on Table 2 and Figure 4. Copies of the analytical laboratory reports are provided in Appendix B.

7.1. Soil Gas Analytical Results

Benzene was detected in five of the soil vapor probes analyzed, SV4 and SV7 through and SV10 at concentrations ranging from 0.12 to 0.16 micrograms per liter (µg/ℓ). The soil vapor samples were collected at 5 feet bgs in SV7 through SV10 and at 4 feet bgs in SV4 (Table 1 and Figure 4). Other VOCs were not detected at or above the laboratory reporting limit in the samples analyzed.

7.2. Soil Sample Analytical Results

Arsenic was not detected in the soil samples analyzed at concentration at or above the laboratory reporting limit (Table 2). The OCP 4,4'-dichlorodiphenyltrichloroethane (DDT) was detected in five soil samples collected from four boring locations (B1, B2, B4, and B6) at concentrations ranging from 6.0 to 35 micrograms per kilogram (µg/kg) (Figure 4). Other OCPs were not detected in the soil samples analyzed at concentrations at or above the laboratory reporting limit.

8. HUMAN HEALTH RISK ASSESSMENT

A human health risk assessment (HHRA) was conducted to evaluate the potential excess carcinogenic risk (ECR) and the non-cancer hazard risk to site receptors based on the proposed future use of the site as a community college and on the contaminants of concern (COCs) detected in soil vapor and soil (i.e., benzene and DDT, respectively). The highest detected concentration of each COC was utilized to perform the risk calculation.

The soil vapor risk calculations were performed using the County of San Diego DEH SAM Manual, Vapor Risk Assessment Model dated November 1999, revised July 29, 2010. The soil risk calculations performed utilizing the Johnson & Ettinger model, DEH SAM defaults and toxicity criteria from the USEPA's Integrated Risk Information System and Health Effects Assessment Summary Tables. The model defaults were utilized to calculate the risk for an adult under a residential scenario, which would be considered to be the most conservative scenario.

A complete exposure pathway for chemicals on a site requires four elements: chemical sources, migration routes (i.e., environmental transport), an exposure point for contact (i.e., soil, air or water; or collectively, "media"), and human exposure routes (i.e., oral, dermal, inhalation). A pathway is not complete unless all four elements are present. The source-pathway-receptor relationships provide the basis for the quantitative exposure assessment. Only those complete source-pathway-receptor relationships were included in the toxicity assessment and risk characterization steps.

The complete or potentially complete exposure pathway for this risk assessment is inhalation of VOCs in vapor or DDT in soil particles and ingestion or dermal contact with soil containing DDT. For the inhalation of vapors pathway, diffusion of VOCs from soil vapor (or potentially contaminated groundwater) is the release and transport mechanism, and the exposure point is indoor air, where the receptor can potentially inhale the vapors. For the inhalation of airborne dust pathway, erosion of contaminated surface soil particles is the release mechanism, wind dispersion of the airborne particles is the transport mechanism, and the ambient air at the site is the exposure media. The exposure point is indoor or outdoor air, where the receptor can potentially inhale the contaminated particles. For incidental ingestion or dermal absorption of contaminated soil, direct contact is the release and transport mechanism, and the exposure point is the location where the receptor is exposed to the contaminated soil.

For purposes of the HHRA, it is assumed that potential plans for development of the property will utilize slab-on-grade construction and do not include sub-grade construction. The results of the HHRA for slab-on-grade construction indicate the maximum detected concentrations of COCs detected in soil vapor and in soil present the following cumulative risks for an adult in a residential scenario (Table 3):

- ECR: 1.42E-07 or 1 in 7 million
- Non-Cancer Hazard Index (HI): 0.002

Since the ECR value is less than the threshold cancer risk of 1.00E-06 or 1 in 1 million (SAM Manual), the cancer risk is considered less than significant. The calculated non-cancer HI value is less than the threshold non-cancer HI of 1.0; therefore, the non-cancer risk is considered to be less than significant. Copies of the risk calculation worksheets are provided in Appendix C.

9. CONCLUSIONS AND RECOMMENDATIONS

Soil sampling results indicate that soil at the site contains the OCP DDT at concentrations up to 35 µg/kg, but other OCPs and arsenic were not detected. In general, DDT was detected at depths of the less than 3 feet bgs; however, DDT was detected up to the total depth explored of 3.5 feet bgs in B6 (Figure 4). Since DDT was detected in soil on the site, if shallow soil were to be removed from the site, it may require special handling, reuse restrictions, and/or disposal requirements. However, based on the maximum concentration of DDT detected in the samples collected, it is not likely that the soil would be classified as a California or Federal hazardous waste for OCPs.

Benzene was detected in soil vapor samples at the site at a maximum concentration of 0.16 µg/ℓ; however, other VOCs were not detected in the soil vapor samples analyzed. The soil vapor probes in which benzene was detected were primarily located in southeastern portion of the site, which is closest to the underground storage tanks and dispenser islands and the area of the unauthorized release of fuel on the adjacent gasoline service station.

The HHRA presented in this report evaluated the cumulative potential health risks posed by the presence of benzene in soil vapor and DDT in shallow soil. The risk scenario evaluated was for an adult because the proposed future site use is for a community college and a residential setting was utilized because it is considered to be the most conservative. Based on the results of the cumulative risk calculations, the cancer and non-cancer health risks to an adult in a residential scenario are considered less than significant.

Based on this information and the results of the HHRA, Ninyo & Moore recommends a

- A site-specific HASP should be prepared for subsurface or soil disturbance activities at the site based on the potential to encounter contaminants such as those detected in the soil or soil vapor samples.
    - The HASP should be prepared in accordance with the requirements of Occupational Safety and Health Administration (OSHA) standards and regulations contained in Title 29, Code of Federal Regulations (CFR), Parts 1200, 1910, and 1926, including amendments as stated in Federal Register December 19, 1986: 45654-45675 (Interim Final Rule, 29 CFR 1910.120 “Hazardous Waste Operations and Emergency Response”). In addition, the HASP should comply with California OSHA requirements for

hazardous waste operations and emergency response regulations contained in Title 8, California Code of Regulations, Section 5144 and 5192A

- A soil management plan (SMP) should be prepared for subsurface or soil disturbance activities at the site. The objective of the SMP is to assist the contractor in the excavation, notification, monitoring, segregation, characterization, handling, and reuse and/or disposal (as appropriate) of wastes/contaminated soil that may be encountered during earthwork activities. The SMP should be prepared by a professional environmental consultant and in accordance with the DEH SAM Manual, RWQCB guidelines, and the standard of care of the industry.

- The HHRA be reevaluated should site development plans differ from the scenario presented in Section 8.

10. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines, and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of

California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

11. REFERENCES

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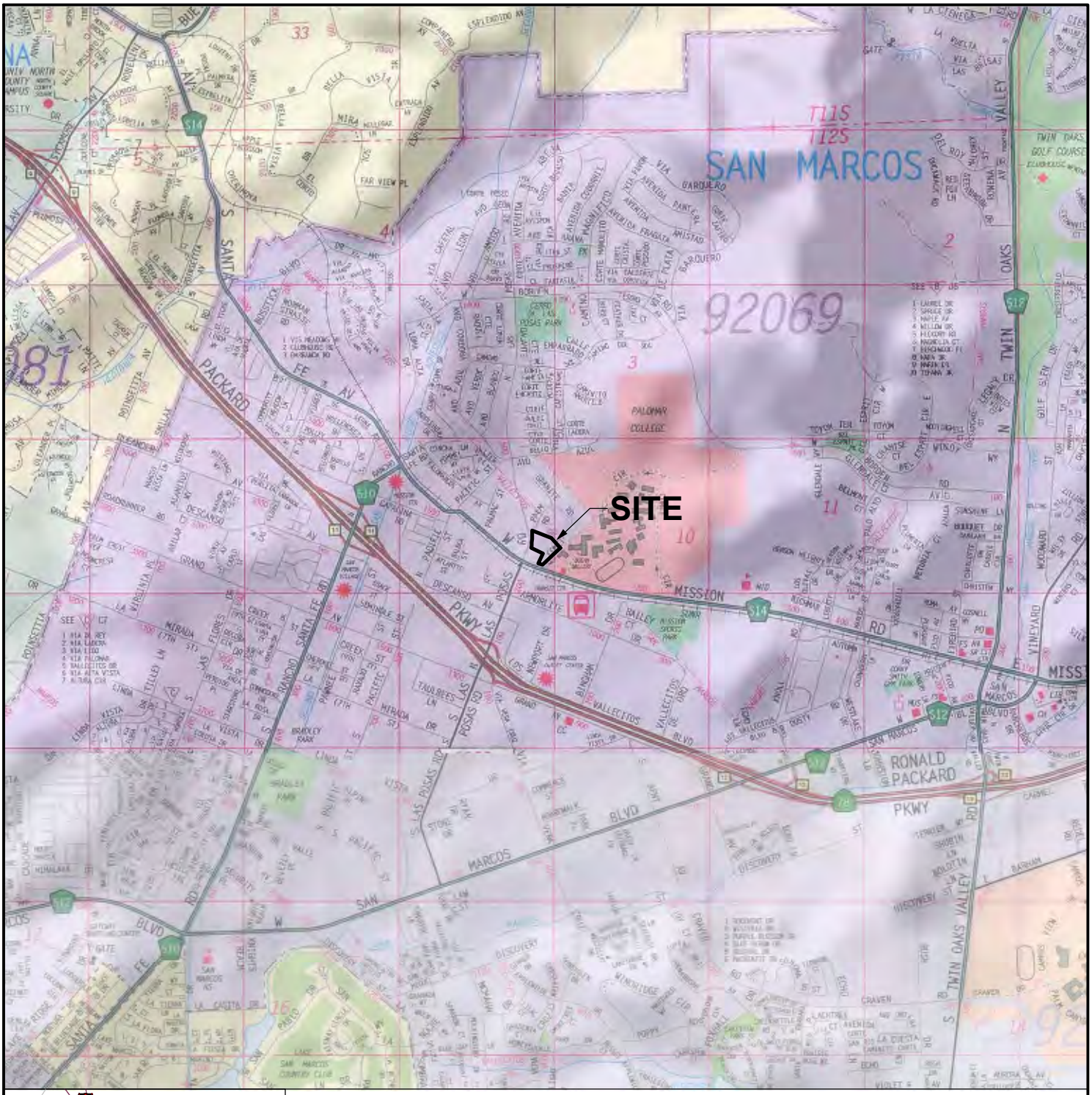
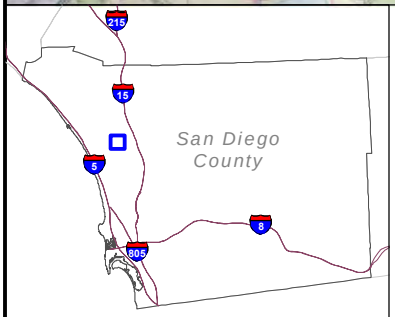


SOURCE: 2008 Thomas Guide for San Diego County, Street Guide and Directory; Map © Rand McNally, R.L.07-S-129



MAP EXTENT

SCALE IN FEET

0 1,200 2,400 4,800

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 106088039 / DATE 7/11	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	1

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LEGEND

B6	HAND AUGER BORING
SV12	SOIL VAPOR PROBE
	PARCEL BOUNDARY
219-161-21-00	PARCEL NUMBER

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

SCALE IN FEET

0 40 80 160

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE PLAN	FIGURE
PROJECT NO. / DATE	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	2
106088039 / 7/11		

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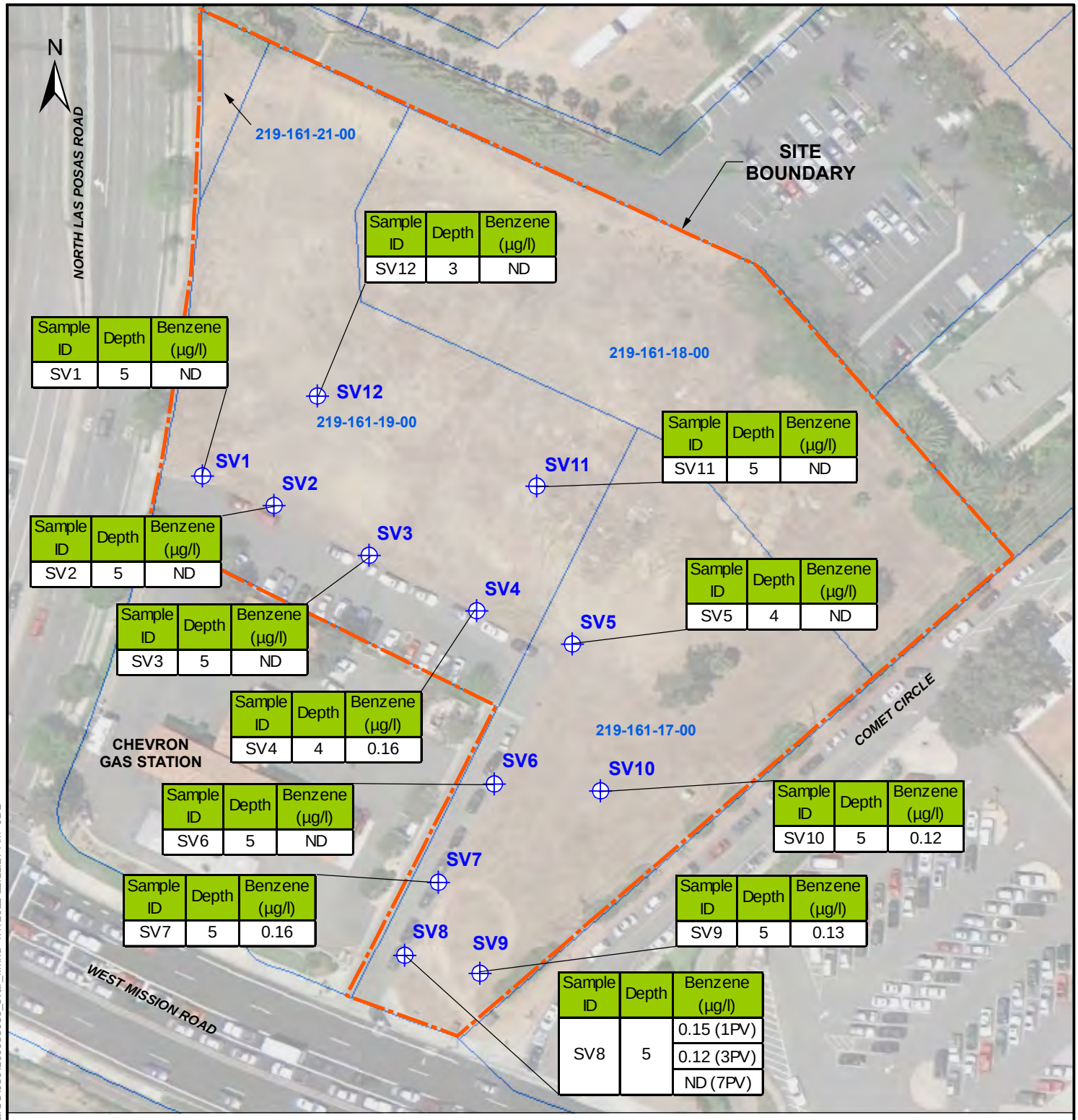

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

LEGEND

SV12 SOIL VAPOR PROBE

PARCEL BOUNDARY

219-161-21-00 PARCEL NUMBER

NOTES:
µg/l = micrograms per liter
ND = not detected
PV = purge volume
All samples collected at 1PV unless noted.

DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

SCALE IN FEET

0 40 80 160

Ninyo & Moore	SOIL VAPOR SAMPLE ANALYTICAL RESULTS	FIGURE
PROJECT NO. 106088039 / DATE 7/11	NORTH LAS POSAS ROAD AND WEST MISSION ROAD SAN MARCOS, CALIFORNIA	3

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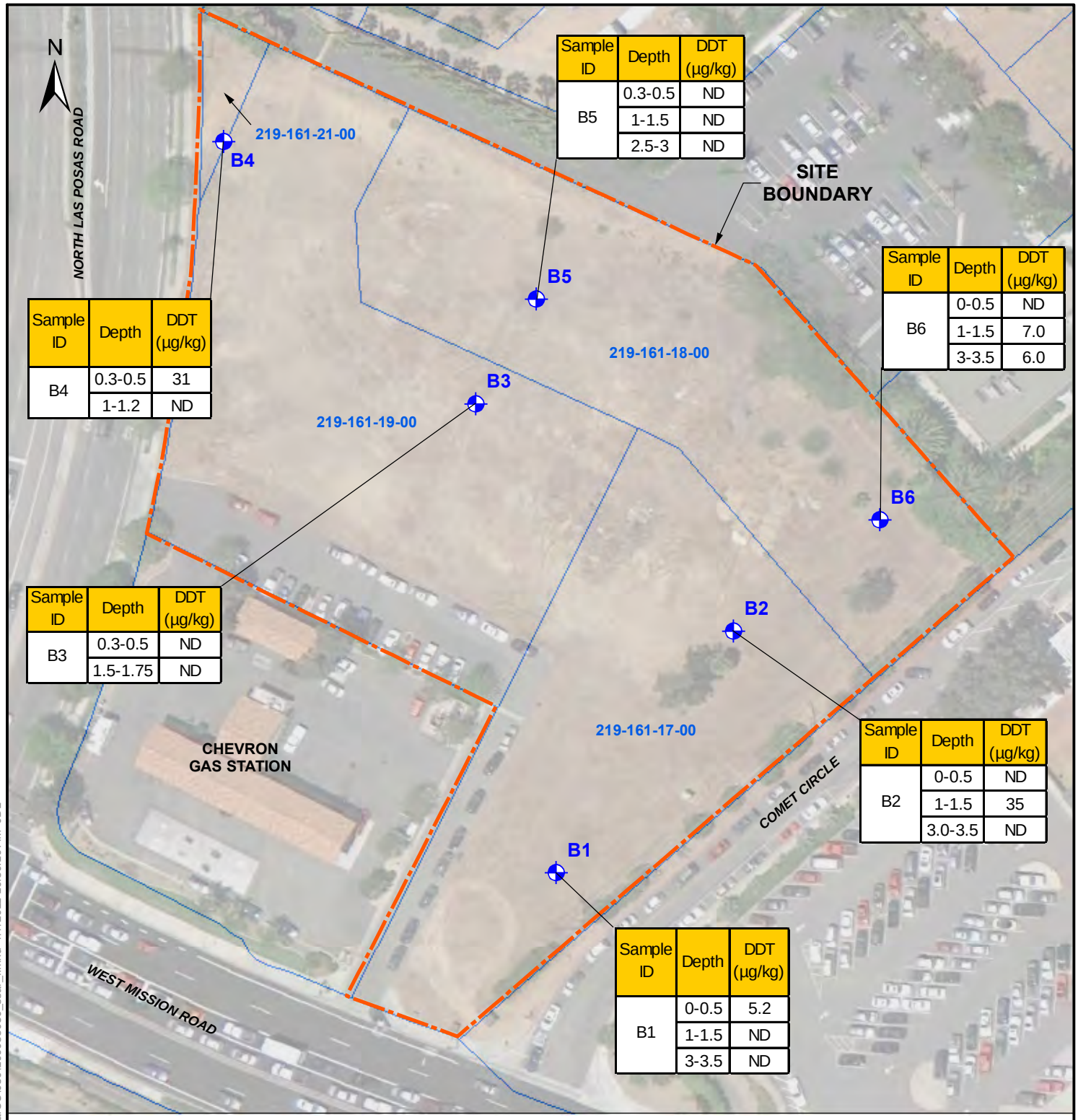


Sample ID	Depth	DDT (µg/kg)
B4	0.3-0.5	31
	1-1.2	ND

Sample ID	Depth	DDT (µg/kg)
B5	0.3-0.5	ND
	1-1.5	ND
	2.5-3	ND

Sample ID	Depth	DDT (µg/kg)
B6	0-0.5	ND
	1-1.5	7.0
	3-3.5	6.0

Sample ID	Depth	DDT (µg/kg)
B3	0.3-0.5	ND
	1.5-1.75	ND

Sample ID	Depth	DDT (µg/kg)
B2	0-0.5	ND
	1-1.5	35
	3.0-3.5	ND

Sample ID	Depth	DDT (µg/kg)
B1	0-0.5	5.2
	1-1.5	ND
	3-3.5	ND

SOURCE: Aerial Imagery - Photo Date: Aug, 2010; (c) Google Earth, 2011

LEGEND

B6 SOIL BORING

PARCEL BOUNDARY

219-161-21-00 PARCEL NUMBER

NOTES:
DDT = dichlorodiphenyltrichloroethane
µg/kg = micrograms per kilogram
ND = not detected

DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

SCALE IN FEET

0 40 80 160

Ninyo & Moore

SOIL SAMPLE ANALYTICAL RESULTS

FIGURE 4

PROJECT NO.	DATE
106088039	7/11

NORTH LAS POSAS ROAD AND WEST MISSION ROAD
SAN MARCOS, CALIFORNIA

S:\ArcGIS\Projects\100000_SD\106000-106999\106088_PalomarCC\039\106088039_ssar_r.mxd 7/7/2011 10:50:16 AM JDL

Table 1 - Summary of Soil Vapor Sample Analytical Results

Sample ID	Purge Volume	Depth (feet bgs)	Benzene (µg/ℓ)
SV1-5'	1	5	<0.10
SV2-5'	1	5	<0.10
SV3-5'	1	5	<0.10
SV3-5' DUP	1	5	<0.10
SV4-4'	1	4	**0.16**
SV5-4'	1	4	<0.10
SV6-5'	1	5	<0.10
SV7-5'	1	5	**0.16**
SV8-5'	1	5	**0.15**
	3	5	**0.12**
	7	5	<0.10
SV9-5'	1	5	**0.13**
SV10-5'	1	5	**0.12**
SV11-5'	1	5	<0.10
SV12-3'	1	3	<0.10

Notes:
µg/ℓ - micrograms per liter
bgs - below ground surface
1 Purge Volume = 111 cubic centimeters
Bold values indicated benzene was detected above the laboratory reporting limit of 0.10 µg/l.

Table 2 - Summary of Soil Sample Analytical Results

Sample ID	Depth (feet bgs)	Arsenic (mg/kg)	DDT (µg/kg)
B1-0-0.5	0-0.5	<2.0	**5.2**
B1-1.0-1.5	1-1.5	<1.0	<2.0
B1-3.0-3.5	3-3.5	<2.0	<2.0
B2-0-0.5	0-0.5	<1.0	<2.0
B2-1-1.5	1-1.5	<2.0	**35**
B2-3.0-3.5	3-3.5	<1.0	<2.0
B3-0.3-0.5	0.3-0.5	<2.0	<2.0
B3-1.5-1.75	1.5-1.75	<1.0	<2.0
B4-0.3-0.5	0.3-0.5	<2.0	**31**
B4-1.0-1.2	1-1.2	<2.0	<2.0
B5-0.3-0.5	0.3-0.5	<1.0	<2.0
B5-1-1.5	1-1.5	<1.0	<2.0
B5-2.5-3.0	2.5-3	<1.0	<2.0
B6-0-0.5	0-0.5	<1.0	<2.0
B6-1-1.5	1-1.5	<1.0	**7.0**
B6-3-3.5	3-3.5	<1.0	**6.0**

Notes:
mg/kg - milligrams per kilogram
µg/kg - micrograms per kilogram
bgs - below ground surface

Table 3 - Summary of Risk Calculations

Detected Analyte	Maximum Detected Concentration	ECR	HI
Benzene	0.16 µg/ℓ	1.31E-07	3.55E-04
4,4'-DDT	35 µg/kg	1.08E-08	1.21E-03
	Total Risk	**1.42E-07**	**0.002**
	Threshold Cancer Risk	**1.00E-06**	**1.0**

Notes:
µg/ℓ - micrograms per liter
µg/kg - micrograms per kilogram
DDT - dichlorodiphenyltrichloroethane
ECR - excess cancer risk
HI - non-cancer hazard index

APPENDIX A

BORING LOGS

BORING LOG EXPLANATION SHEET

DEPTH (feet)	SAMPLES: Bulk	SAMPLES: Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	
0	■							Bulk sample.
		■						Modified split-barrel drive sampler.
		⊠						No recovery with modified split-barrel drive sampler.
		▥						Sample retained by others.
		◪						Standard Penetration Test (SPT).
5		◫						No recovery with a SPT.
		▯	XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
		◪						No recovery with Shelby tube sampler.
		▥						Continuous Push Sample.
				⚲				Seepage.
10				▽				Groundwater encountered during drilling.
				▼				Groundwater measured after drilling.
						▦	SM	ALLUVIUM: Solid line denotes unit change.
								Dashed line denotes material change.
								Attitudes: Strike/Dip b: Bedding c: Contact j: Joint f: Fracture F: Fault cs: Clay Seam s: Shear bss: Basal Slide Surface sf: Shear Fracture sz: Shear Zone sbs: Sheared Bedding Surface
15								
								The total depth line is a solid line that is drawn at the bottom of the boring.
20								

Ninyo & Moore

BORING LOG

EXPLANATION OF BORING LOG SYMBOLS

PROJECT NO.	DATE	FIGURE
	Rev. 01/03	

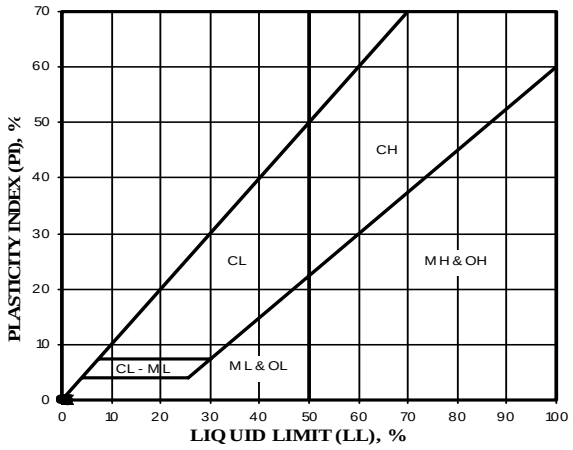
U.S.C.S. METHOD OF SOIL CLASSIFICATION

MAJOR DIVISIONS		SYMBOL	TYPICAL NAMES
COARSE-GRAINED SOILS (More than 1/2 of soil >No. 200 sieve size)	**GRAVELS (More than 1/2 of coarse fraction > No. 4 sieve size)**	GW	Well graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS (More than 1/2 of coarse fraction <No. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines
		SP	Poorly graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS (More than 1/2 of soil <No. 200 sieve size)	**SILTS & CLAYS Liquid Limit <50**	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean
		OL	Organic silts and organic silty clays of low plasticity
	SILTS & CLAYS Liquid Limit >50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS		Pt	Peat and other highly organic soils

GRAIN SIZE CHART

CLASSIFICATION	RANGE OF GRAIN SIZE	
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL	3" to No. 4	76.2 to 4.76
Coarse	3" to 3/4"	76.2 to 19.1
Fine	3/4" to No. 4	19.1 to 4.76
SAND	No. 4 to No. 200	4.76 to 0.075
Coarse	No. 4 to No. 10	4.76 to 2.00
Medium	No. 10 to No. 40	2.00 to 0.420
Fine	No. 40 to No. 200	0.420 to 0.075
SILT & CLAY	Below No. 200	Below 0.075

PLASTICITY CHART



Ninyo & Moore

U.S.C.S. METHOD OF SOIL CLASSIFICATION

DATE DRILLED 6/21/11 BORING NO. B1

GROUND ELEVATION N/A SHEET 1 OF 1

METHOD OF DRILLING Strataprobe/Direct Push

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY AO LOGGED BY AO REVIEWED BY SB

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		X					SP	FILL: Brown, dry, dense, poorly graded fine SAND with trace coarse sand.
		X						
		X					SM	Dark brown, dry, dense, silty fine SAND.
		X						
								Total Depth = 3.5 feet. Groundwater not encountered during drilling. Backfilled with granular bentonite shortly after drilling on 6/21/11. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5								
10								
15								
20								

REGISTERED PROFESSIONAL GEOLOGIST
STEPHAN A. BECK
No. 4375
Exp. 3/31/12
STATE OF CALIFORNIA

Ninyo & Moore

BORING LOG

LAS POSAS AND MISSION ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106088039	6/11	

DATE DRILLED 6/21/11 BORING NO. B2

GROUND ELEVATION N/A SHEET 1 OF 1

METHOD OF DRILLING Strataprobe/Direct Push

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY AO LOGGED BY AO REVIEWED BY SB

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SP	FILL: Brown, dry, dense, poorly graded fine SAND with trace coarse sand.
						ML	Light brown, damp, dense, sandy SILT; low plasticity.
5							Total Depth = 3.5 feet. Groundwater not encountered during drilling. Backfilled with bentonite shortly after drilling on 6/21/11. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
10							
15							
20							

REGISTERED PROFESSIONAL GEOLOGIST
STEPHAN A. BECK
No. 4375
Exp. 3/31/12
STATE OF CALIFORNIA

Ninyo & Moore

BORING LOG

LAS POSAS AND MISSION ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106088039	6/11	

DATE DRILLED 6/21/11 BORING NO. B3

GROUND ELEVATION N/A SHEET 1 OF 1

METHOD OF DRILLING Hand Auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY AO LOGGED BY AO REVIEWED BY SB

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■	⊠					SP	FILL: Light brown, dry, dense, poorly graded fine SAND. @ 1': Increasing fine gravel.
	■							
	■	⊠						
								Total Depth = 1.75 feet. Groundwater not encountered during drilling. Backfilled with native sand shortly after drilling on 6/21/11. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5								
10								
15								
20								

REGISTERED PROFESSIONAL GEOLOGIST
STEPHAN A. BECK
No. 4375
Exp. 3/31/12
STATE OF CALIFORNIA

Ninyo & Moore

BORING LOG

LAS POSAS AND MISSION ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106088039	6/11	

DATE DRILLED 6/21/11 BORING NO. B4

GROUND ELEVATION N/A SHEET 1 OF 1

METHOD OF DRILLING Hand Auger

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY AO LOGGED BY AO REVIEWED BY SB

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■	☒					SP	FILL: Light brown, dry, dense, poorly graded fine SAND.
	■	☒						Total Depth = 1.2 feet. Groundwater not encountered during drilling. Backfilled with native sand shortly after drilling on 6/21/11. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5								
10								
15								
20								

REGISTERED PROFESSIONAL GEOLOGIST
STEPHAN A. BECK
No. 4375
Exp. 3/31/12
STATE OF CALIFORNIA

Ninyo & Moore

BORING LOG

LAS POSAS AND MISSION ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106088039	6/11	

DATE DRILLED 6/21/11 BORING NO. B5

GROUND ELEVATION N/A SHEET 1 OF 1

METHOD OF DRILLING Strataprobe/Direct Push

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY AO LOGGED BY AO REVIEWED BY SB

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		X					SP	FILL: Light grayish brown, dry, very dense, poorly graded, fine SAND.
		X						
		X						
		X						
								Total Depth = 3 feet. Groundwater not encountered during drilling. Backfilled with granular bentonite shortly after drilling on 6/21/11. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5								
10								
15								
20								

REGISTERED PROFESSIONAL GEOLOGIST
STEPHAN A. BECK
No. 4375
Exp. 3/12
STATE OF CALIFORNIA

Ninyo & Moore

BORING LOG

LAS POSAS AND MISSION ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106088039	6/11	

DATE DRILLED 6/21/11 BORING NO. B6

GROUND ELEVATION N/A SHEET 1 OF 1

METHOD OF DRILLING Strataprobe/Direct Push

DRIVE WEIGHT N/A DROP N/A

SAMPLED BY AO LOGGED BY AO REVIEWED BY SB

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SP	FILL: Brown, dry, dense, poorly graded fine SAND with trace coarse sand.
						SM	Dark brown, dense, silty fine SAND.
5							Total Depth = 3.5 feet. Groundwater not encountered during drilling. Backfilled with bentonite shortly after drilling on 6/21/11. Note: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
10							
15							
20							

REGISTERED PROFESSIONAL GEOLOGIST
STEPHAN A. BECK
No. 4375
Exp. 3/31/12
STATE OF CALIFORNIA

Ninyo & Moore

BORING LOG

LAS POSAS AND MISSION ROAD
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
106088039	6/11	

APPENDIX B

ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

H&P Mobile Geochemistry Inc.

27 June 2011

Ms. Lisa Bestard
Ninyo & Moore - San Diego
5710 Ruffin Road
San Diego, CA 92123

H&P Project: NM062111-SB2
Client Project: 106088039 / NE Corner of Las Posas

Dear Ms. Lisa Bestard:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 21-Jun-11 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. operates under CA Environmental Lab Accreditation Program Numbers 2579, 2740, 2741, 2742, 2743, 2745 and 2754. National Environmental Laboratory Accreditation Conference (NELAC) Standards Lab #11845

2470 Impala Drive, Carlsbad, California 92010 ┌ 760.804.9678 — Fax 760.804.9159
1855 Coronado Avenue, Signal Hill, California 90755
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Mobile Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Ninyo & Moore - San Diego
5710 Ruffin Road
San Diego, CA 92123

Project: NM062111-SB2
Project Number: 106088039 / NE Corner of Las Posas
Project Manager: Ms. Lisa Bestard

Reported:
27-Jun-11 13:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV8-5', 1PV, P111cc	E106062-01	Vapor	21-Jun-11	21-Jun-11
SV8-5', 3PV, P333cc	E106062-02	Vapor	21-Jun-11	21-Jun-11
SV8-5', 7PV, P777cc	E106062-03	Vapor	21-Jun-11	21-Jun-11
SV7-5', P111cc	E106062-04	Vapor	21-Jun-11	21-Jun-11
SV6-5', P111cc	E106062-05	Vapor	21-Jun-11	21-Jun-11
SV5-4', P111cc	E106062-06	Vapor	21-Jun-11	21-Jun-11
SV9-5', P111cc	E106062-07	Vapor	21-Jun-11	21-Jun-11
SV10-5', P111cc	E106062-08	Vapor	21-Jun-11	21-Jun-11
SV11-5', P111cc	E106062-09	Vapor	21-Jun-11	21-Jun-11
SV1-5', P111cc	E106062-10	Vapor	21-Jun-11	21-Jun-11
SV2-5', P111cc	E106062-11	Vapor	21-Jun-11	21-Jun-11
SV3-5', P111cc	E106062-12	Vapor	21-Jun-11	21-Jun-11
SV3-5' Dup, P161cc	E106062-13	Vapor	21-Jun-11	21-Jun-11
SV4-4', P111cc	E106062-14	Vapor	21-Jun-11	21-Jun-11
SV12-3', P111cc	E106062-15	Vapor	21-Jun-11	21-Jun-11

H&P Mobile Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5', 1PV, P111cc (E106062-01) Vapor	**Sampled: 21-Jun-11**	**Received: 21-Jun-11**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	**0.15**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.6 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		"	"	"	"	

H&P Mobile Geochemistry Inc.

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5', 3PV, P333cc (E106062-02) Vapor	**Sampled: 21-Jun-11**	**Received: 21-Jun-11**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	**0.12**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.3 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV8-5', 7PV, P777cc (E106062-03) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.0 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.5 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV7-5', P111cc (E106062-04) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	**0.16**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.3 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.9 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*119 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV6-5', P111cc (E106062-05) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.3 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV5-4', P111cc (E106062-06) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93.7 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV9-5', P111cc (E106062-07) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	**0.13**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.6 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV10-5', P111cc (E106062-08) Vapor	**Sampled: 21-Jun-11**	**Received: 21-Jun-11**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	**0.12**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*92.8 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.9 %*	*75-125*		"	"	"	"	

H&P Mobile Geochemistry Inc.

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV11-5', P111cc (E106062-09) Vapor	**Sampled: 21-Jun-11**	**Received: 21-Jun-11**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.1 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV1-5', P111cc (E106062-10) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.3 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*106 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV2-5', P111cc (E106062-11) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93.2 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5', P111cc (E106062-12) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.9 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV3-5' Dup, P161cc (E106062-13) Vapor	**Sampled: 21-Jun-11**	**Received: 21-Jun-11**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.5 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV4-4', P111cc (E106062-14) Vapor Sampled: 21-Jun-11 Received: 21-Jun-11									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	**0.16**	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.8 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.5 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV12-3', P111cc (E106062-15) Vapor	**Sampled: 21-Jun-11**	**Received: 21-Jun-11**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EF12102	21-Jun-11	21-Jun-11	EPA 8260B	
Dichlorodifluoromethane (F12)	ND	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.05	"	"	"	"	"	"	
Chloroethane	ND	0.50	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	0.50	"	"	"	"	"	"	
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Chloroform	ND	0.10	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.10	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	0.10	"	"	"	"	"	"	
Benzene	ND	0.10	"	"	"	"	"	"	
Trichloroethene	ND	0.10	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.10	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*75-125*		"	"	"	"	

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Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF12102 - EPA 5030										
Blank (EF12102-BLK1)				Prepared & Analyzed: 21-Jun-11						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane (F12)	ND	0.50	"							
Vinyl chloride	ND	0.05	"							
Chloroethane	ND	0.50	"							
Trichlorofluoromethane (F11)	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
Methylene chloride (Dichloromethane)	ND	0.50	"							
1,1,2 Trichlorotrifluoroethane (F113)	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
cis-1,2-Dichloroethene	ND	0.50	"							
Chloroform	ND	0.10	"							
1,1,1-Trichloroethane	ND	0.50	"							
Carbon tetrachloride	ND	0.10	"							
1,2-Dichloroethane (EDC)	ND	0.10	"							
Benzene	ND	0.10	"							
Trichloroethene	ND	0.10	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.10	"							
Ethylbenzene	ND	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.50	"							
m,p-Xylene	ND	0.50	"							
o-Xylene	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Surrogate: Dibromofluoromethane	*2.52*		*"*	*2.50*		*101*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.36*		*"*	*2.50*		*94.4*	*75-125*			
Surrogate: Toluene-d8	*2.54*		*"*	*2.50*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.60*		*"*	*2.50*		*104*	*75-125*			

Mobile Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Volatile Organic Compounds by EPA Method 8260B Modified - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF12102 - EPA 5030										
LCS (EF12102-BS1)				Prepared & Analyzed: 21-Jun-11						
Dichlorodifluoromethane (F12)	2.18	0.50	ug/l	2.50		87.2	70-130			
Vinyl chloride	2.48	0.05	"	2.50		99.0	70-130			
Chloroethane	2.52	0.50	"	2.50		101	70-130			
Trichlorofluoromethane (F11)	2.12	0.50	"	2.50		84.7	70-130			
1,1-Dichloroethene	2.17	0.50	"	2.50		86.8	70-130			
Methylene chloride (Dichloromethane)	2.25	0.50	"	2.50		90.0	70-130			
1,1,2 Trichlorotrifluoroethane (F113)	2.08	0.50	"	2.50		83.3	70-130			
trans-1,2-Dichloroethene	2.29	0.50	"	2.50		91.6	70-130			
1,1-Dichloroethane	2.30	0.50	"	2.50		92.0	70-130			
cis-1,2-Dichloroethene	2.17	0.50	"	2.50		86.7	70-130			
Chloroform	2.17	0.10	"	2.50		86.9	70-130			
1,1,1-Trichloroethane	2.33	0.50	"	2.50		93.2	70-130			
Carbon tetrachloride	2.37	0.10	"	2.50		94.7	70-130			
1,2-Dichloroethane (EDC)	2.41	0.10	"	2.50		96.4	70-130			
Benzene	2.35	0.10	"	2.50		93.8	70-130			
Trichloroethene	2.42	0.10	"	2.50		96.9	70-130			
Toluene	2.29	1.0	"	2.50		91.8	70-130			
1,1,2-Trichloroethane	2.22	0.50	"	2.50		88.8	70-130			
Tetrachloroethene	2.50	0.10	"	2.50		100	70-130			
Ethylbenzene	2.53	0.50	"	2.50		101	70-130			
1,1,1,2-Tetrachloroethane	2.44	0.50	"	2.50		97.6	70-130			
m,p-Xylene	5.49	0.50	"	5.00		110	70-130			
o-Xylene	2.25	0.50	"	2.50		90.0	70-130			
1,1,2,2-Tetrachloroethane	2.40	0.50	"	2.50		96.1	70-130			
Surrogate: Dibromofluoromethane	*2.40*		*"*	*2.50*		*95.9*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.34*		*"*	*2.50*		*93.6*	*75-125*			
Surrogate: Toluene-d8	*2.53*		*"*	*2.50*		*101*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.53*		*"*	*2.50*		*101*	*75-125*			

Mobile Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

Ninyo & Moore - San Diego	Project: NM062111-SB2	
5710 Ruffin Road	Project Number: 106088039 / NE Corner of Las Posas	Reported:
San Diego, CA 92123	Project Manager: Ms. Lisa Bestard	27-Jun-11 13:11

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the Environmental Laboratory Accreditation Program (CA) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste for the following methods:

Certificate# 2741, 2743, 2579, 2754 & 2740 approved for EPA 8260 and LUFT GC/MS
Certificate# 2742, 2745, & 2741 approved for LUFT
Certificate# 2745 & 2742 approved for EPA 418.1

H&P Mobile Geochemistry, Inc. is approved as an Environmental Laboratory in conformance with the National Environmental Accreditation Conference Standards for the category Environmental Analysis Air and Emissions for the following analytes and methods:

1,2,4-Trichlorobenzene by EPA TO-15 & TO-14A
Hexachlorobutadiene by EPA TO-15 & TO-14A
1,2,4-Trimethylbenzene by EPA TO -14A
1,2-Dichlorobenzene by EPA TO-15 & TO-14A
1,3,5-Trimethylbenzene by EPA TO -14A
1,4-Dichlorobenzene by EPA TO-15 & TO-14A
Benzene by EPA TO-15 & TO-14A
Chlorobenzene by EPA TO-15 & TO-14A
Ethyl benzene by EPA TO-15 & TO-14A
Styrene by EPA TO-15 & TO-14A
Toluene by EPA TO-15 & TO-14A
Total Xylenes by EPA TO-15 & TO-14A
1,1,1-Trichloroethane by EPA TO-15 & TO-14A
1,1,2,2-Tetrachloroethane by EPA TO-15 & TO-14A
1,1,2-Trichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethane by EPA TO-15 & TO-14A
1,1-Dichloroethene by EPA TO-15 & TO-14A
1,2-Dichloroethane by EPA TO-15 & TO-14A
1,2-Dichloropropane by EPA TO-15 & TO-14A
Bromoform by EPA TO-15
Bromomethane by EPA TO-15 & TO-14A
Carbon tetrachloride by EPA TO-15 & TO-14A
Chloroethane by EPA TO-15
Chloroform by EPA TO-15 & TO-14A
Chloromethane by EPA TO-15 & TO-14A
cis-1,2-Dichloroethene by EPA TO-15
cis-1,2-Dichloropropene by EPA TO-15 & TO-14A
Methylene chloride by EPA TO -15 & TO-14A
Tetrachloroethane by EPA TO-15 & TO-14A
trans-1,2-Dichloroethene by EPA TO-15
trans-1,2-Dichloropropene by EPA TO-15 & TO-14A
Trichloroethene by EPA TO-15 & TO-14A
Vinyl chloride by EPA TO -15 & TO-14A
2-Butanone by EPA TO-15
4-Methyl-2-Pentanone by EPA TO-15
Hexane by EPA TO-15
Methyl tert-butyl ether by EPA TO-15
Vinyl acetate by EPA TO-15

This certification applies to samples analyzed in summa canisters.

Chain of Custody Record

H&P Mobile Geochemistry Inc.
☒ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 6/21/11
H&P Project #: NM062111-SB2
Outside Lab:

Client: Ninyo + Moore
Collector: Dave Pride
Page: 1 of 2
Address: 5710 Ruffin Rd. San Diego, CA 92123
Client Project #: 106088039
Project Contact: Lisa Bestard
Location: NE Corner Las Posas San Marcos, CA
Email: lbestard@ninyoandmoore.com; aoliveras@ninyoandmoore.com
Phone: 858-576-1000 x1279
Fax:
Turn around time: on-site

Geotracker EDF: Yes ☐ No ☐
Global ID:
Excel EDD: Yes ☐ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No ☒ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order #: E106062 EF12102

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	8260B Full List	8260B ☐ BTEX/OXY ☐ TPH gas	8015M TPH ☐ g ☐ d ☐ ext	418.1 TRPH	VOC's: Full List ☐ 8260B ☐ TO-15	VOC's: Short List/DTSC ☒ 8260B ☐ TO-15	VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	Naphthalene ☐ 8260B ☐ TO-15	Oxygenates ☐ 8260B ☐ TO-15	TPHv gas ☐ 8260B ☐ TO-15	Ketones ☐ 8260B ☐ TO-15	Other ☐ 8260B ☐ TO-15	Leak Check Compound ☒ 1,1 DFA ☐ OTHER	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
								SOIL/GW				SOIL VAPOR/AIR ANALYSIS										
SV8-5' 1PV	SV8	111cc	0909	6/21/11	Vapor	Glass Syringe	1						X							X		
SV8-5' 3PV	SV8	333cc	0910				1															
SV8-5' 7PV	SV8	777cc	0912				1															
SV7-5'	SV7	111cc	1027				1															
SV6-5'	SV6	111cc	1042				1															
SV5-4'	SV4	111cc	1051				1															
SV9-5'	SV9	111cc	1118				1															
SV10-5'	SV10	111cc	1127				1															
SV11-5'	SV11	111cc	1155				1															
SV1-5'	SV1	111cc	1217				1															

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Dave Pride	Ninyo + Moore	Dave Pride	H&P	6/21/11	1440
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

Chain of Custody Record

H&P Mobile Geochemistry Inc.
☒ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 1855 Coronado Ave., Signal Hill, CA 90755 • ph 800.834.9888

Date: 6/21/11
H&P Project # NM06211(-SB2
Outside Lab:

Client: Ninyo & Moore
Address: 5710 Ruffin Rd. San Diego, CA
Email: lbestard@ninyoandmoore.com; qdiverasa@ninyoandmoore.com
Collector: Dave Pride
Client Project # 106088039
Location: NE Corner Las Posas Rd. San Marcos, CA
Phone: 858-576-1000 x1279 Fax:
Page: 2 of 2
Project Contact:
Turn around time: ON site

Geotracker EDF: Yes ☐ No ☒
Global ID:
Excel EDD: Yes ☐ No ☐

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No ☒ N/A
Temperature: 20°C

Special Instructions:

Lab Work Order # E106062

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	Total # of containers	SOIL/GW: 8260B Full List	SOIL/GW: 8260B ☐ BTEX/OXY ☐ TPH gas	SOIL/GW: 8015M TPH ☐ g ☐ d ☐ ext	SOIL/GW: 418.1 TRPH	SOIL VAPOR/AIR ANALYSIS: VOC's: Full List ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: Short List/DTSC ☒ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: VOC's: SAM, 8260B ☐ SAM A ☐ SAM B	SOIL VAPOR/AIR ANALYSIS: Naphthalene ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Oxygenates ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: TPHv gas ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Ketones ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Other ____ ☐ 8260B ☐ TO-15	SOIL VAPOR/AIR ANALYSIS: Leak Check Compound ☒ 1,1 DFA ☐ OTHER	SOIL VAPOR/AIR ANALYSIS: Methane	SOIL VAPOR/AIR ANALYSIS: Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2
SV2-5'	SV2	111cc	1241	6/21/11	Vapor	Glass syringe	1						X							X		
SV3-5'	SV3	111cc	1307	↓	↓	↓	1						↓							↓		
SV3-5' Dup	SV3	161cc	1308				1															
SV4-4'	SV4	111cc	1329				1															
SV12-3'	SV12	111cc	1402				1						↓							↓		

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	Ninyo + Moore	David Pride	H&P	6/21/11	1440
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal ☐ Return to client ☐ Pickup

June 29, 2011

Lisa Bestard
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123

TEL: (858) 576-1000
FAX: (858) 576-9600

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 118586

RE: PCC / Las Posas Rd. & Mission Rd, 106088039

Attention: Lisa Bestard

Enclosed are the results for sample(s) received on June 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

Advanced Technology Laboratories

Date: *29-Jun-11*

CLIENT: Ninyo & Moore
Project: PCC / Las Posas Rd. & Mission Rd, 106088039
Lab Order: 118586
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
118586-001A	B1-0-0.5	Soil	6/21/2011 12:37:00 PM	6/22/2011	6/29/2011
118586-002A	B1-1.0-1.5	Soil	6/21/2011 12:40:00 PM	6/22/2011	6/29/2011
118586-003A	B1-3.0-3.5	Soil	6/21/2011 12:42:00 PM	6/22/2011	6/29/2011
118586-004A	B2-0-0.5	Soil	6/21/2011 12:25:00 PM	6/22/2011	6/29/2011
118586-005A	B2-1-1.5	Soil	6/21/2011 12:28:00 PM	6/22/2011	6/29/2011
118586-006A	B2-3.0-3.5	Soil	6/21/2011 12:32:00 PM	6/22/2011	6/29/2011
118586-007A	B3-0.3-0.5	Soil	6/21/2011 9:30:00 AM	6/22/2011	6/29/2011
118586-008A	B3-1.5-1.75	Soil	6/21/2011 10:10:00 AM	6/22/2011	6/29/2011
118586-009A	B4-0.3-0.5	Soil	6/21/2011 7:45:00 AM	6/22/2011	6/29/2011
118586-010A	B4-1.0-1.2	Soil	6/21/2011 9:15:00 AM	6/22/2011	6/29/2011
118586-011A	B5-0.3-0.5	Soil	6/21/2011 11:55:00 AM	6/22/2011	6/29/2011
118586-012A	B5-1-1.5	Soil	6/21/2011 12:00:00 PM	6/22/2011	6/29/2011
118586-013A	B5-2.5-3.0	Soil	6/21/2011 12:05:00 PM	6/22/2011	6/29/2011
118586-014A	B6-0-0.5	Soil	6/21/2011 12:15:00 PM	6/22/2011	6/29/2011
118586-015A	B6-1-1.5	Soil	6/21/2011 12:18:00 PM	6/22/2011	6/29/2011
118586-016A	B6-3-3.5	Soil	6/21/2011 12:20:00 PM	6/22/2011	6/29/2011
118586-017A	BG1-0.3-0.5	Soil	6/21/2011 11:05:00 AM	6/22/2011	6/29/2011
118586-018A	DUPLICATE	Soil	6/21/2011	6/22/2011	6/29/2011

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Analytical Comments for EPA 6010B

1. Samples 118586-001A, 118586-003A, 118586-005A, 118586-007A, 118586-009A, 118586-010A and 118586-017A, dilution was necessary due to internal standard failure.

Analytical Comments for EPA 8081A

1. Samples 118580-015AMS and 118580-015AMSD, Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B1-0-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:37:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 01:34 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC9_110624A	QC Batch: 73861			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
4,4´-DDE	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
4,4´-DDT	5.2	2.0		µg/Kg	1	6/25/2011 12:45 AM
Aldrin	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
alpha-BHC	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
beta-BHC	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
Chlordane	ND	8.5		µg/Kg	1	6/25/2011 12:45 AM
delta-BHC	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
Dieldrin	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
Endosulfan I	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
Endosulfan II	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
Endrin	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
Endrin ketone	ND	2.0		µg/Kg	1	6/25/2011 12:45 AM
gamma-BHC	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
Heptachlor	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/25/2011 12:45 AM
Methoxychlor	ND	5.0		µg/Kg	1	6/25/2011 12:45 AM
Toxaphene	ND	50		µg/Kg	1	6/25/2011 12:45 AM
Surr: Decachlorobiphenyl	68.8	31-107		%REC	1	6/25/2011 12:45 AM
Surr: Tetrachloro-m-xylene	66.3	35-108		%REC	1	6/25/2011 12:45 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B1-1.0-1.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:40:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-002A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B			**EPA 6010B**			
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:12 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B			**EPA 8081A**			
RunID: GC9_110624A	QC Batch: 73861			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
4,4´-DDE	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
4,4´-DDT	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
Aldrin	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
alpha-BHC	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
beta-BHC	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
Chlordane	ND	8.5		µg/Kg	1	6/25/2011 01:12 AM
delta-BHC	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
Dieldrin	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
Endosulfan I	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
Endosulfan II	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
Endrin	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
Endrin ketone	ND	2.0		µg/Kg	1	6/25/2011 01:12 AM
gamma-BHC	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
Heptachlor	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/25/2011 01:12 AM
Methoxychlor	ND	5.0		µg/Kg	1	6/25/2011 01:12 AM
Toxaphene	ND	50		µg/Kg	1	6/25/2011 01:12 AM
Surr: Decachlorobiphenyl	68.6	31-107		%REC	1	6/25/2011 01:12 AM
Surr: Tetrachloro-m-xylene	64.2	35-108		%REC	1	6/25/2011 01:12 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B1-3.0-3.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:42:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-003A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 01:38 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 06:40 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 06:40 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 06:40 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 06:40 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 06:40 PM
Surr: Decachlorobiphenyl	72.8	31-107		%REC	1	6/24/2011 06:40 PM
Surr: Tetrachloro-m-xylene	67.2	35-108		%REC	1	6/24/2011 06:40 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B2-0-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:25:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-004A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:19 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 06:54 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 06:54 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 06:54 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 06:54 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 06:54 PM
Surr: Decachlorobiphenyl	75.7	31-107		%REC	1	6/24/2011 06:54 PM
Surr: Tetrachloro-m-xylene	59.3	35-108		%REC	1	6/24/2011 06:54 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B2-1-1.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:28:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-005A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 01:41 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
4,4´-DDT	35	2.0		µg/Kg	1	6/24/2011 07:07 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 07:07 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 07:07 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 07:07 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 07:07 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 07:07 PM
Surr: Decachlorobiphenyl	68.2	31-107		%REC	1	6/24/2011 07:07 PM
Surr: Tetrachloro-m-xylene	67.0	35-108		%REC	1	6/24/2011 07:07 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B2-3.0-3.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:32:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-006A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:25 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 07:21 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 07:21 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 07:21 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 07:21 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 07:21 PM
Surr: Decachlorobiphenyl	74.8	31-107		%REC	1	6/24/2011 07:21 PM
Surr: Tetrachloro-m-xylene	71.3	35-108		%REC	1	6/24/2011 07:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out
E	Value above quantitation range
ND	Not Detected at the Reporting Limit
	Results are wet unless otherwise specified

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B3-0.3-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 9:30:00 AM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-007A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate:	6/27/2011	Analyst: **IL**
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 01:45 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate:	6/24/2011	Analyst: **HL**
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 07:34 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 07:34 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 07:34 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 07:34 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 07:34 PM
Surr: Decachlorobiphenyl	72.2	31-107		%REC	1	6/24/2011 07:34 PM
Surr: Tetrachloro-m-xylene	68.0	35-108		%REC	1	6/24/2011 07:34 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B3-1.5-1.75
Lab Order:	118586	**Collection Date:**	6/21/2011 10:10:00 AM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-008A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:38 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 07:48 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 07:48 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 07:48 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 07:48 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 07:48 PM
Surr: Decachlorobiphenyl	81.0	31-107		%REC	1	6/24/2011 07:48 PM
Surr: Tetrachloro-m-xylene	81.1	35-108		%REC	1	6/24/2011 07:48 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B4-0.3-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 7:45:00 AM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-009A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 01:48 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
4,4´-DDT	31	2.0		µg/Kg	1	6/24/2011 08:01 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 08:01 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 08:01 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 08:01 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 08:01 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 08:01 PM
Surr: Decachlorobiphenyl	82.8	31-107		%REC	1	6/24/2011 08:01 PM
Surr: Tetrachloro-m-xylene	73.9	35-108		%REC	1	6/24/2011 08:01 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B4-1.0-1.2
Lab Order:	118586	**Collection Date:**	6/21/2011 9:15:00 AM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-010A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 01:58 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 08:14 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 08:14 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 08:14 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 08:14 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 08:14 PM
Surr: Decachlorobiphenyl	87.0	31-107		%REC	1	6/24/2011 08:14 PM
Surr: Tetrachloro-m-xylene	80.1	35-108		%REC	1	6/24/2011 08:14 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B5-0.3-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 11:55:00 AM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-011A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:47 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 08:28 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 08:28 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 08:28 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 08:28 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 08:28 PM
Surr: Decachlorobiphenyl	83.2	31-107		%REC	1	6/24/2011 08:28 PM
Surr: Tetrachloro-m-xylene	70.2	35-108		%REC	1	6/24/2011 08:28 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ninyo & Moore
Lab Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 1060880
Lab ID: 118586-012A

Client Sample ID: B5-1-1.5
Collection Date: 6/21/2011 12:00:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:50 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 06:27 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 06:27 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 06:27 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 06:27 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 06:27 PM
Surr: Decachlorobiphenyl	85.5	31-107		%REC	1	6/24/2011 06:27 PM
Surr: Tetrachloro-m-xylene	82.1	35-108		%REC	1	6/24/2011 06:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B5-2.5-3.0
Lab Order:	118586	**Collection Date:**	6/21/2011 12:05:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-013A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:54 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 08:41 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 08:41 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 08:41 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 08:41 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 08:41 PM
Surr: Decachlorobiphenyl	87.9	31-107		%REC	1	6/24/2011 08:41 PM
Surr: Tetrachloro-m-xylene	82.8	35-108		%REC	1	6/24/2011 08:41 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B6-0-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:15:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-014A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 12:57 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 08:55 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 08:55 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 08:55 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 08:55 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 08:55 PM
Surr: Decachlorobiphenyl	86.7	31-107		%REC	1	6/24/2011 08:55 PM
Surr: Tetrachloro-m-xylene	80.6	35-108		%REC	1	6/24/2011 08:55 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ninyo & Moore
Lab Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 1060880
Lab ID: 118586-015A

Client Sample ID: B6-1-1.5
Collection Date: 6/21/2011 12:18:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 01:00 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
4,4´-DDT	7.0	2.0		µg/Kg	1	6/24/2011 09:08 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 09:08 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 09:08 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 09:08 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 09:08 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 09:08 PM
Surr: Decachlorobiphenyl	70.1	31-107		%REC	1	6/24/2011 09:08 PM
Surr: Tetrachloro-m-xylene	64.1	35-108		%REC	1	6/24/2011 09:08 PM

Qualifiers:

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified
DO	Surrogate Diluted Out

CLIENT:	Ninyo & Moore	**Client Sample ID:**	B6-3-3.5
Lab Order:	118586	**Collection Date:**	6/21/2011 12:20:00 PM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-016A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
EPA 3050B				**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 01:03 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
EPA 3550B				**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
4,4´-DDT	6.0	2.0		µg/Kg	1	6/24/2011 09:22 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 09:22 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 09:22 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 09:22 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 09:22 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 09:22 PM
Surr: Decachlorobiphenyl	75.1	31-107		%REC	1	6/24/2011 09:22 PM
Surr: Tetrachloro-m-xylene	65.7	35-108		%REC	1	6/24/2011 09:22 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	BG1-0.3-0.5
Lab Order:	118586	**Collection Date:**	6/21/2011 11:05:00 AM
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-017A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate:	6/27/2011	Analyst: **IL**
Arsenic	ND	2.0		mg/Kg	2	6/27/2011 02:02 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT:	Ninyo & Moore	**Client Sample ID:**	DUPLICATE
Lab Order:	118586	**Collection Date:**	6/21/2011
Project:	PCC / Las Posas Rd. & Mission Rd, 1060880	**Matrix:**	SOIL
Lab ID:	118586-018A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP8_110627A	QC Batch: 73883			PrepDate: 6/27/2011	Analyst: **IL**	
Arsenic	ND	1.0		mg/Kg	1	6/27/2011 01:15 PM
ORGANOCHLORINE PESTICIDES BY GC/ECD						
	EPA 3550B			**EPA 8081A**		
RunID: GC10_110624A	QC Batch: 73875			PrepDate: 6/24/2011	Analyst: **HL**	
4,4´-DDD	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
4,4´-DDE	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
4,4´-DDT	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
Aldrin	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
alpha-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
alpha-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
beta-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
Chlordane	ND	8.5		µg/Kg	1	6/24/2011 09:35 PM
delta-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
Dieldrin	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
Endosulfan I	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
Endosulfan II	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
Endosulfan sulfate	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
Endrin	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
Endrin aldehyde	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
Endrin ketone	ND	2.0		µg/Kg	1	6/24/2011 09:35 PM
gamma-BHC	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
gamma-Chlordane	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
Heptachlor	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
Heptachlor epoxide	ND	1.0		µg/Kg	1	6/24/2011 09:35 PM
Methoxychlor	ND	5.0		µg/Kg	1	6/24/2011 09:35 PM
Toxaphene	ND	50		µg/Kg	1	6/24/2011 09:35 PM
Surr: Decachlorobiphenyl	85.9	31-107		%REC	1	6/24/2011 09:35 PM
Surr: Tetrachloro-m-xylene	77.0	35-108		%REC	1	6/24/2011 09:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: Ninyo & Moore
Work Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 106088039

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-73883**	SampType: **MBLK**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **6/27/2011**	RunNo: **134432**
Client ID: **PBS**	Batch ID: **73883**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **6/27/2011**	SeqNo: **2197704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	1.0									

Sample ID: **LCS-73883**	SampType: **LCS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **6/27/2011**	RunNo: **134432**
Client ID: **LCSS**	Batch ID: **73883**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **6/27/2011**	SeqNo: **2197705**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.275	1.0	50.00	0	96.5	80	120				

Sample ID: **118617-001A-MS**	SampType: **MS**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **6/27/2011**	RunNo: **134432**
Client ID: **ZZZZZZ**	Batch ID: **73883**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **6/27/2011**	SeqNo: **2197719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	106.752	1.0	125.0	0.8100	84.8	49	106				

Sample ID: **118617-001A-MSD**	SampType: **MSD**	TestCode: **6010_S**	Units: **mg/Kg**	Prep Date: **6/27/2011**	RunNo: **134432**
Client ID: **ZZZZZZ**	Batch ID: **73883**	TestNo: **EPA 6010B**	**EPA 3050B**	Analysis Date: **6/27/2011**	SeqNo: **2197720**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	105.533	1.0	125.0	0.8100	83.8	49	106	106.8	1.15	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 106088039

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: **MB-73861** SampType: **MBLK** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **PBS** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197311**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	5.0									
Toxaphene	ND	50									
Surr: Tetrachloro-m-xylene	12.434		16.67		74.6	35	108				
Surr: Decachlorobiphenyl	12.667		16.67		76.0	31	107				

Sample ID: **LCS-73861** SampType: **LCS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **LCSS** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	13.114	1.0	16.67	0	78.7	59	105				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: **LCS-73861** SampType: **LCS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **LCSS** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dieldrin	12.976	2.0	16.67	0	77.8	56	112				
Endrin	11.758	2.0	16.67	0	70.5	53	116				
gamma-BHC	13.307	1.0	16.67	0	79.8	59	110				
Heptachlor	12.973	1.0	16.67	0	77.8	53	118				
Surr: Tetrachloro-m-xylene	12.994		16.67		78.0	35	108				
Surr: Decachlorobiphenyl	13.102		16.67		78.6	31	107				

Sample ID: **118580-015AMS** SampType: **MS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **ZZZZZZ** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	12.702	1.0	16.67	0	76.2	35	122				
Dieldrin	12.620	2.0	16.67	0	75.7	31	138				
Endrin	12.602	2.0	16.67	0	75.6	39	132				
Heptachlor	11.342	1.0	16.67	0	68.0	34	131				
Surr: Tetrachloro-m-xylene	9.206		16.67		55.2	35	108				
Surr: Decachlorobiphenyl	11.376		16.67		68.2	31	107				

Sample ID: **118580-015AMSD** SampType: **MSD** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **ZZZZZZ** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	15.081	1.0	16.67	0	90.5	35	122	12.70	17.1	20	
Dieldrin	14.932	2.0	16.67	0	89.6	31	138	12.62	16.8	20	
Endrin	14.614	2.0	16.67	0	87.7	39	132	12.60	14.8	20	
Heptachlor	13.169	1.0	16.67	0	79.0	34	131	11.34	14.9	20	
Surr: Tetrachloro-m-xylene	11.444		16.67		68.7	35	108		0	0	
Surr: Decachlorobiphenyl	13.033		16.67		78.2	31	107		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 106088039

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: **118580-015AMS** SampType: **MS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **ZZZZZZ** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/25/2011** SeqNo: **2197557**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	702.871	50	16.67	2724	-12100	38	130				S
gamma-BHC	61.688	25	16.67	46.88	88.9	36	126				
Surr: Tetrachloro-m-xylene	12.454		16.67		74.7	35	108				
Surr: Decachlorobiphenyl	9.250		16.67		55.5	31	107				

Sample ID: **118580-015AMSD** SampType: **MSD** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134418**
Client ID: **ZZZZZZ** Batch ID: **73861** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/25/2011** SeqNo: **2197558**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	694.125	50	16.67	2724	-12200	38	130	702.9	1.25	20	S
gamma-BHC	59.888	25	16.67	46.88	78.1	36	126	61.69	2.96	20	
Surr: Tetrachloro-m-xylene	12.071		16.67		72.4	35	108		0	0	
Surr: Decachlorobiphenyl	11.896		16.67		71.4	31	107		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: Ninyo & Moore
Work Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 106088039

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: **MB-73875** SampType: **MBLK** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134430**
Client ID: **PBS** Batch ID: **73875** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDD	ND	2.0									
4,4´-DDE	ND	2.0									
4,4´-DDT	ND	2.0									
Aldrin	ND	1.0									
alpha-BHC	ND	1.0									
alpha-Chlordane	ND	1.0									
beta-BHC	ND	1.0									
Chlordane	ND	8.5									
delta-BHC	ND	1.0									
Dieldrin	ND	2.0									
Endosulfan I	ND	1.0									
Endosulfan II	ND	2.0									
Endosulfan sulfate	ND	2.0									
Endrin	ND	2.0									
Endrin aldehyde	ND	2.0									
Endrin ketone	ND	2.0									
gamma-BHC	ND	1.0									
gamma-Chlordane	ND	1.0									
Heptachlor	ND	1.0									
Heptachlor epoxide	ND	1.0									
Methoxychlor	ND	5.0									
Toxaphene	ND	50									
Surr: Tetrachloro-m-xylene	12.874		16.67		77.2	35	108				
Surr: Decachlorobiphenyl	13.659		16.67		81.9	31	107				

Sample ID: **LCS-73875** SampType: **LCS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134430**
Client ID: **LCSS** Batch ID: **73875** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aldrin	13.335	1.0	16.67	0	80.0	59	105				

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ninyo & Moore
Work Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 106088039

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: **LCS-73875** SampType: **LCS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134430**
Client ID: **LCSS** Batch ID: **73875** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dieldrin	13.842	2.0	16.67	0	83.0	56	112				
Endrin	14.676	2.0	16.67	0	88.0	53	116				
gamma-BHC	13.530	1.0	16.67	0	81.2	59	110				
Heptachlor	13.480	1.0	16.67	0	80.9	53	118				
Surr: Tetrachloro-m-xylene	13.453		16.67		80.7	35	108				
Surr: Decachlorobiphenyl	14.210		16.67		85.2	31	107				

Sample ID: **118586-012AMS** SampType: **MS** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134430**
Client ID: **B5-1-1.5** Batch ID: **73875** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	17.023	2.0	16.67	1.062	95.7	38	130				
Aldrin	14.686	1.0	16.67	0	88.1	35	122				
Dieldrin	16.183	2.0	16.67	0	97.1	31	138				
Endrin	17.706	2.0	16.67	0	106	39	132				
gamma-BHC	15.287	1.0	16.67	0	91.7	36	126				
Heptachlor	14.616	1.0	16.67	0	87.7	34	131				
Surr: Tetrachloro-m-xylene	13.491		16.67		80.9	35	108				
Surr: Decachlorobiphenyl	14.586		16.67		87.5	31	107				

Sample ID: **118586-012AMSD** SampType: **MSD** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134430**
Client ID: **B5-1-1.5** Batch ID: **73875** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4´-DDT	17.073	2.0	16.67	1.062	96.1	38	130	17.02	0.298	20	
Aldrin	14.935	1.0	16.67	0	89.6	35	122	14.69	1.69	20	
Dieldrin	16.049	2.0	16.67	0	96.3	31	138	16.18	0.828	20	
Endrin	17.534	2.0	16.67	0	105	39	132	17.71	0.980	20	
gamma-BHC	15.525	1.0	16.67	0	93.1	36	126	15.29	1.54	20	
Heptachlor	14.899	1.0	16.67	0	89.4	34	131	14.62	1.91	20	

Qualifiers:

B Analyte detected in the associated Method Blank
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
E Value above quantitation range
R RPD outside accepted recovery limits
Calculations are based on raw values
H Holding times for preparation or analysis exceeded
S Spike/Surrogate outside of limits due to matrix interference

CLIENT: Ninyo & Moore
Work Order: 118586
Project: PCC / Las Posas Rd. & Mission Rd, 106088039

ANALYTICAL QC SUMMARY REPORT

TestCode: 8081_S

Sample ID: **118586-012AMSD** SampType: **MSD** TestCode: **8081_S** Units: **µg/Kg** Prep Date: **6/24/2011** RunNo: **134430**
Client ID: **B5-1-1.5** Batch ID: **73875** TestNo: **EPA 8081A** **EPA 3550B** Analysis Date: **6/24/2011** SeqNo: **2197640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Tetrachloro-m-xylene	13.561		16.67		81.4	35	108		0	0	
Surr: Decachlorobiphenyl	14.658		16.67		87.9	31	107		0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CHAIN OF CUSTODY RECORD

Pg 1 of 2 (MMD)

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

P.O.#: _____ Quote #: _____
Logged By: _____ Date: 6/23/11
NOTE: Please include your Quote No. to ensure proper pricing of your project.

FOR LABORATORY USE ONLY:

Method of Transport: ☐ Client ☑ ATL ☐ FedEx ☐ OnTrac ☐ GSO ☐ Other: _____

Sample Condition Upon Receipt: 3.6
1. CHILLED Y☑ N☐ 4. SEALED Y☐ N☑
2. HEADSPACE (VOA) Y☐ N☐ (2) 5. # OF SPLS MATCH COC Y☑ N☐
3. CONTAINER INTACT Y☑ N☐ 6. PRESERVED Y☐ N☑

Client: Ninyo & Moore
Attn: Lisa Bestard
Address: 5710 Ruffin Road
City: San Diego State: CA Zip Code: 92123
TEL: 858-576-1000
FAX: -9600

Project Name: PCC / Los Posas Rd & Mission Rd Project #: 1060088039
Sampler: (Printed Name) ADRIAN OLIVARES (Signature)

Relinquished by: (Signature and Printed Name)	Date: 6/22/11	Time: 1442	Received by: (Signature and Printed Name) FPDHL	Date: 6/22/11	Time: 1442
Relinquished by: (Signature and Printed Name) FPDHL	Date: 6/22/11	Time: 1815	Received by: (Signature and Printed Name)	Date: 6/22/11	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
ADRIAN OLIVARES (Print Name) _____ (Date)
(Signature)

Send Report To: Attn: CLIENT Co: Addr: City: State: Zip:

Bill To: Attn: CLIENT Co: Addr: City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested: 8081A (Pesticides); 8082 (PCB); 8260B (Volatiles); 8270C (BNA); 6010B (Total Metal); 8015B (GRO) / 8021 (BTEX); 8015B (DRO); TITLE 22 / CAM 17 (6010 / 7000); Arsenic (6010B)

SPECIFY APPROPRIATE MATRIX: SEDIMENT; SOLID; SOIL; DRINKING WATER; GROUND WATER; WASTEWATER; STORMWATER; AQUEOUS

Container(s): TAT; # ; Type

PRESERVATION

Q A / Q C: RTNE ☐ CT ☐ Legal ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample I.D. / Location	Date	Time	8081A	8082	8260B	8270C	6010B	8015B (GRO)/8021	8015B (DRO)	TITLE 22 / CAM 17 / Arsenic	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	#	Type	PRESERVATION	REMARKS
	118586-1	B1-0-0.5	6/21/11	1237	X							X			X						E	1	J	Ø	
	2	B1-1.0-1.5	6/21/11	1240	X							X			X								T		
	3	B1-3.0-3.5	6/21/11	1242	X							X			X								T		
	4	B2-0-0.5	6/21/11	1225	X							X			X								T		
	5	B2-1-1.5	6/21/11	1228	X							X			X								T		
	6	B2-3.0-3.5	6/21/11	1232	X							X			X								T		
	7	B3-0.3-0.5	6/21/11	0930	X							X			X								J		
	8	B3-1.5-1.75	6/21/11	1010	X							X			X								J		
	9	B4-0.3-0.5	6/21/11	0745	X							X			X								J		
	10	B4-1.0-1.2	6/21/11	0915	X							X			X								J		

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: ☐A= Overnight ≤ 24 hrs ☐B= Emergency Next workday ☐C= Critical 2 Workdays ☐D= Urgent 3 Workdays ☒E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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Sample Condition Upon Receipt
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Ninyo + Moore
Attn: Lisa Bestard
Address: 5710 Ruffin Road
City: San Diego State: CA Zip Code: 92123
TEL: (858) 576-1000
FAX: -9600

Project Name: PCC / Las Posas Rd + Mission Rd Project #: 106088039
Sampler: (Printed Name) ADRIAN OLIVARES (Signature)

Relinquished by: (Signature and Printed Name)	Date: 6/22/11	Time: 1442	Received by: (Signature and Printed Name)		Date: 6/22/11	Time: 1442
Relinquished by: (Signature and Printed Name)	Date: 6/22/11	Time: 1815	Received by: (Signature and Printed Name)		Date: 6/22/11	Time: 1815
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)		Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
ADRIAN OLIVARES
Print Name Date
Signature

Send Report To:
Attn: CLIENT
Co:
Addr:
City: State: Zip:

Bill To:
Attn: CLIENT
Co:
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City: State: Zip:

Special Instructions/Comments:

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

Q A / Q C
RTNE ☐
CT ☐
Legal ☐
SWRCB ☐
Logcode
OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal)	8015B (GRO) / 8021 (BTEX)	8015B (DRO)	TITLE 22 / CAM 17 (6010 / 7000)	Arsenic (6010B)	SEDIMENT	SOLID	SOIL	DRINKING WATER	GROUND WATER	WASTEWATER	STORMWATER	AQUEOUS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	118584-11	B5-0.3-0.5	6/21/11	1155	X								X		X							E	1	J	Ø	
	12	B5-1-1.5	6/21/11	1200	X								X		X									T		
	13	B5-2.5-3.0	6/21/11	1205	X								X		X									T		
	14	B6-0-0.5	6/21/11	1215	X								X		X									T		
	15	B6-1-1.5	6/21/11	1218	X								X		X									T		
	16	B6-3-3.5	6/21/11	1220	X								X		X									T		
	17	BG1-0.3-0.5	6/21/11	1105	X								X		X									J		Arsenic Only
	18	DUPLICATE	6/21/11	—	X								X		X									J		

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: ☐A= Overnight ≤ 24 hrs ☐B= Emergency Next workday ☐C= Critical 2 Workdays ☐D= Urgent 3 Workdays ☒E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=Hcl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

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Rachelle Arada

From: Adrian Olivares [aolivares@ninyoandmoore.com]
Sent: Friday, June 24, 2011 2:40 PM
To: Carmen Aguila
Cc: Lisa Bestard; Rachelle Arada
Subject: PCC/Las Posas Rd and Mission Rd. - 106088039

Carmen,

Margot called and notified me that the sample ID on the lid did not match the label and the chain of custody. Please use the ID on the label and chain in the lab report. The IDs on the lid were for internal use.

Also, I left some of your coolers by our sample fridge with a note for your courier to pick them up. For some reason he didn't. It would be nice if in the future you could take them back.

Adrian Olivares
Senior Staff Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 (x1257)
(858) 576-9600 (Fax)
aolivares@ninyoandmoore.com
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APPENDIX C

HEALTH RISK CALCULATION SPREADSHEETS

Case Name:
PCC/N.Las Posas and W.Mission

CHEMICAL OF CONCERN:

Enter Chemical Name = benzene

C11 benzene
C12 benzo(a)pyrene
C13 carbon tetrachloride
C14 chlorobenzene
C15 chloroethane (ethyl chloride)
C16 chloromethane (methyl chloride)
C17 1,2-dichlorobenzene
C18 1,3-dichlorobenzene
C19 1,4-dichlorobenzene
C20 1,1-dichloroethene (1,1-DCE)
C21 trans-1,2-dichloroethene
C22 1,1-dichloroethane (1,1-DCA)
C23 1,2-dichloroethane (1,2-DCA)

E11 dichloromethane (methylene chloride)
E12 ethylbenzene
E13 naphthalene
E14 methyl tertiary butyl ether (MTBE)
E15 tetrachloroethene (PCE)
E16 toluene
E17 1,1,1-trichloroethane
E18 1,1,2-trichloroethane
E19 trichloroethene (TCE)
E20 trichloromethane (chloroform)
E21 vinyl chloride
E22 xylene

Chemical Mixture (if app.) =

C27 Gasoline
C28 Kerosene
C29 Diesel

E27 Fuel Oil
E28 Waste Oil

If compound is not listed then data must be entered into the site-specific field.

SITE SPECIFIC INFORMATION			Site-Specific	Value Used
Mole fraction	dimensionless	MF		0.0000
Temperature	K	T		293
Water concentration (chemical)	ug/l	C_w		0
Soil concentration (chemical)	mg/kg	C_t		0
Soil concentration (TPH/TRPH)	mg/kg	C_t		0
Soil gas concentration (measured)	mg/m3 (ug/l)	$C_{sg}(m)$	0.16	0.16
Depth of contamination or Soil Gas	m	X	1.2192	1.2192

CHEMICAL PROPERTIES			Site Specific	Value Used
Henry's Law Constant	dimensionless	H		0.23
Vapor pressure	atm	VP		0.13
Molecular weight (chemical)	mg/mole	MW		78,110
Molecular weight (mixture)	mg/mole	MW(m)		#N/A
Universal gas constant	atm-m3/mole-K	R	XXXXXXXXXX	8.20E-05
Diffusion coefficient in air	cm2/sec	D_a		0.088
Organic carbon partitioning coef.	cm3/gm	K_{oc}		62
SOIL PROPERTIES				
Total porosity	dimensionless	θ		0.3
Air-filled porosity	dimensionless	θ_a		0.2
Water-filled porosity	dimensionless	θ_w	XXXXXXXXXX	0.1
Bulk density (dry)	gm/cc	r_b		1.8
Weight fraction of organic carbon	dimensionless	foc		0.01
BUILDING SPECIFICATIONS				
Floor area of building	m2	A		1
% of floor area that flux occurs	dimensionless			100%
Interior Height of building	m	R_h		2.44
Exchange rate of air	exchanges/hr	E		0.83
Slab Attenuation factor	dimensionless	S_b		0.1
OUTDOOR AIR COMPONENT				
Downwind contamination length	m	L		0
Wind speed	m/hr	u		16000
Height of building openings	m	h		2
EXPOSURE SCENARIO Default values are for Industrial Uses				
Body weight	kg	BW		70
Inhalation rate	m3/day	IR		20
Exposure duration	yrs	ED	30	30
Hours per day	hr/day		24	24
Days per week	days/week		7	7
Weeks per year	weeks/yr		52	52
HEALTH RISK FACTORS				
Reference dose	mg/kg-day	RfD		0.0086
Slope factor (potency)	1/(mg/kg-day)	SF		0.1

Case Name: PCC/N.Las Posas and W.Mission

Chemical: benzene

Variable Descriptions				**Units**
CALCULATION OF SOIL GAS CONCENTRATION				
A. SOURCE - Free Product/Soil>100mg/kg.				
Mole fraction	MF	=	0.00E+00	dimensionless
Molecular weight	MW	=	7.81E+04	mg/mole
Vapor pressure	VP	=	1.30E-01	atm
Universal gas constant	R	=	8.20E-05	atm-m3/mole-K
Temperature	T	=	2.93E+02	K
Calculated soil gas concentration	**C_{sg}(fp)**	=	**0.00E+00**	**mg/m3**
B. SOURCE - Groundwater				
Water contamination level	C_w	=	0.00E+00	ug/l
Henry's Law Constant	H	=	2.30E-01	dimensionless
Calculated soil gas concentration	**C_{sg}(gw)**	=	**0.00E+00**	**mg/m3**
C. SOURCE - Soil < 100 mg/kg				
Soil contamination level	C_t	=	0.00E+00	mg/kg
Henry's Law Constant	H	=	2.30E-01	dimensionless
Bulk density (dry)	ρ_b	=	1.80E+00	gm/cc
Air-filled porosity	θ_a	=	2.00E-01	dimensionless
Water-filled porosity	θ_w	=	1.00E-01	dimensionless
Soil/water distribution coef.	K_d	=	6.20E-01	cm3/gm
Calculated soil gas concentration	**C_{sg}(s)**	=	**0.00E+00**	**mg/m3**
D. SOURCE - Measured Soil Gas				
Measured soil gas concentration	**C_{sg}(m)**	=	**1.60E-01**	**mg/m3 (ug/l)**

E. SOIL GAS CONCENTRATION USED IN RISK CALCULATIONS >>>> 1.60E-01 mg/m3

DIFFUSIVE TRANSPORT UPWARD IN UNSATURATED ZONE				
Total porosity	θ	=	3.00E-01	dimensionless
Air-filled porosity	θ_a	=	2.00E-01	dimensionless
Diffusion coefficient in air	D_a	=	8.80E-02	cm2/sec
Effective diffusion coefficient	**D_e**	=	**4.60E-03**	cm2/sec
Depth of contamination or Csg	X	=	1.22E+00	m
Calculated Flux	**F_x**	=	**2.17E-04**	**mg/m2-hour**

Case Name: **PCC/N.Las Posas and W.Mission**

CALCULATING VAPOR CONCENTRATION IN BUILDING

A. INDOOR AIR COMPONENT

Floor area of building	A	=	1.00E+00	m2
% of floor area that flux occurs			1.00E+00	dimensionless
Slab Attenuation factor	S_b	=	1.00E-01	dimensionless
Flux area within building	Af	=	**1.00E-01**	m2
Interior Height of building	R_h	=	2.44E+00	m
Volume of building	V	=	**2.44E+00**	m3
Exchange rate of air	E	=	8.30E-01	exchanges/hr
Ventilation rate	Q	=	**2.03E+00**	m3/hr
Indoor air component	**C_i**	=	**1.07E-05**	**mg/m3**

B. OUTDOOR AIR COMPONENT

Downwind contamination length	L	=	0.00E+00	m
Wind speed	u	=	1.60E+04	m/hr
Height of building openings (or height of breathing zone)	h	=	2.00E+00	m
Outdoor air component	**C_o**	=	**0.00E+00**	**mg/m3**

C. TOTAL INDOOR AIR CONCENTRATION

C_t = **1.07E-05** **mg/m3**

EXPOSURE SCENARIO

Body weight	BW	=	7.00E+01	kg
Inhalation rate	IR	=	2.00E+01	m3/day
Exposure duration	ED	=	3.00E+01	yrs
Hours per day	conversion		2.40E+01	hr/day
Exposure time	ET	=	**1.00E+00**	hr/24 hours
Days per week	conversion		7.00E+00	days/week
Weeks per year	conversion		5.20E+01	weeks/yr
Exposure frequency	EF	=	**3.64E+02**	days/yr
Averaging Time (carc. risk)	AT	=	2.56E+04	days
Averaging Time (non-carc. risk)	AT	=	**1.10E+04**	days
Chemical Intake (carc. risk)	**IT_c**	=	**1.31E-06**	**mg/kg-day**
Chemical Intake (non-carc. risk)	**IT_{nc}**	=	**3.06E-06**	**mg/kg-day**

NON-CARCINOGENIC RISK (Chronic Risk)

Chemical Intake (non-carc. risk)	**IT_{nc}**	=	3.06E-06	mg/kg-day
Reference dose	RfD	=	8.60E-03	mg/kg-day
Hazard Index	**HI**	=	**3.55E-04**	

CARCINOGENIC RISK

Chemical Intake (carc. risk)	IT_c	=	1.31E-06	mg/kg-day
Slope factor (potency)	SF	=	1.00E-01	1/(mg/kg-day)
Cancer Risk	**Risk**	=	**1.31E-07**	

Table C-1 – Carcinogenic Risk Estimate

Exposure Pathway: Dermal Contact and Soil Ingestion														
Chemical	**Cs mg/kg**	*	**6.12E-07 mg/kg/day**	*	**SF_o mg/kg-day**	+	**SF_o mg/kg-day**	*	**Cs mg/kg**	*	**9.72E-06**	*	**ABS unitless**	=	**Excess Cancer Risk**
4,4'-DDT	0.035	*	6.12E-07	*	3.40E-01	+	3.40E-01	*	0.035	*	9.72E-06	*	0.03	=	1.08E-08
Total Soil Ingestion and Dermal Excess Cancer Risk:															**1.08E-08**

Exposure Pathway: Inhalation of Particulates (for non-volatiles)									
Chemical	**Cs mg/kg**	/	**1.32E+09 m^3/kg**	*	**0.149**	*	**SF_i mg/kg-day**	=	**Cancer Risk**
4,4'-DDT	0.035	/	1.32E+09	*	0.149	*	3.40E-01	=	1.34E-12
Total Inhalation of Particulates Excess Cancer Risk:									**1.34E-12**

Cumulative Cancer Risk:	**1.08E-08**

General Exposure Factors

Exposure Duration	(yrs)	30 adult
Body Weight	(kg)	70 adult
Averaging Time	(days)	25500

Ingestion Exposure Factors

Soil Ingestion Rate	(mg/day)	100 adult
Exposure Frequency	(days/yr)	365 adult

Dermal Exposure Factors

Skin Surface Area	(cm^2/day	5800 adult
Soil to Skin Adherence Factor	(mg/cm^2)	1 adult
Dermal Absorption Factor	(unitless)	0.03 4,4'-DDT
Exposure Frequency	(days/yr)	100 adult

Inhalation Exposure Factors

Inhalation Rate	(m3/day)	20 adult
Particulate Emission Factor	(m^3/kg)	1.32E+09

Notes:
Sfo = Cancer Slope Factor - oral
Sfi = Cancer Slope Factor - inhalation
Cs = Concentration soil

Table C-2 - Non-Cancer Risk Estimate

Exposure Pathway: Dermal Contact and Soil Ingestion														
Chemical	**Cs mg/kg**	/	**RfDo mg/kg/day**	*	**1.33E-05**	+	**Cs mg/kg**	/	**RfDo mg/kg/day**	*	**1.33E-04**	*	**ABS (unitless)**	=	**Hazard Index**
4,4'-DDT	0.035	/	5.00E-04	*	1.33E-05	+	0.035	/	5.00E-04	*	1.33E-04	*	0.03	=	1.21E-03
Total Soil Ingestion and Dermal Hazard Index :															**1.21E-03**

Exposure Pathway: Inhalation of Particulates									
Chemical	**Cs mg/kg**	/	**1.00E+09 m^3/kg**	/	**RfDi mg/kg/day**	*	**0.667**	=	**Hazard Index**
4,4'-DDT	0.035	/	1.00E+09	/	5.00E-04	*	0.667	=	1.05E-07
Total Inhalation of Particulates Hazard Index :									**1.05E-07**

Cumulative Hazard Index:	**1.21E-03**

General Exposure Factors

Exposure Frequency	(days/yr)	365
Exposure Duration	(yrs)	6
Body Weight	(kg)	15
Averaging Time	(days)	2190

Dermal Exposure Factors

Skin Surface Area	(cm^2/day	2000 child
Soil to Skin Adherence	(mg/cm^2)	1
Dermal Absorption	(unitless)	0.03
Exposure Frequency	(days/yr)	365

Ingestion Exposure Factors

Soil Ingestion Rate	(mg/day)	200
Exposure Frequency	(days/yr)	365

Inhalation Exposure Factors

Particulate Emission Factors	(m3/kg)	1.32 E+09
Inhalation Rate	m3/day	10 child

Notes:

RfD = Reference Dose

Cs = Concentration soil

APPENDIX E

GEOPHYSICAL EVALUATION

SEISMIC REFRACTION SURVEY
PROPOSED LAS POSAS PROJECT
PALOMAR COLLEGE
SAN MARCOS, CALIFORNIA

PREPARED FOR:
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123

PREPARED BY:
Southwest Geophysics, Inc.
8057 Raytheon Road, Suite 9
San Diego, CA 92111

May 13, 2015
Project No. 115196

SOUTHWEST GEOPHYSICS, INC.
YOUR SUBSURFACE SOLUTION

May 13, 2015
Project No. 115196

Ms. Christina A. Tretinjak
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123

Subject: Seismic Refraction Survey
Proposed Las Posas Project, Palomar College
San Marcos, California

Dear Ms. Tretinjak:

In accordance with your authorization, we have performed a seismic refraction survey for the proposed Las Posas project located on the Palomar College campus in San Marcos, California. Specifically, our survey consisted of performing two P-wave refraction traverses at the project site. The purpose of our study was to develop subsurface velocity profiles of the areas surveyed, and to assess the apparent rippability of the subsurface materials. This data report presents our survey methodology, equipment used, analysis, and results.

We appreciate the opportunity to be of service on this project. Should you have any questions related to this report, please contact the undersigned at your convenience.

Sincerely,
SOUTHWEST GEOPHYSICS, INC.

Afrildo Iko Syahrial
Project Geophysicist

Hans van de Vrugt, C.E.G., P.Gp.
Principal Geologist/Geophysicist

AIS/HV/hv
Distribution: Addressee (electronic)

REGISTERED GEOPHYSICIST
Hans van de Vrugt
No 1012
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STATE OF CALIFORNIA

TABLE OF CONTENTS

Page

1. INTRODUCTION

In accordance with your authorization, we have performed a seismic refraction survey for the proposed Las Posas project located on the Palomar College campus in San Marcos, California (Figure 1). Specifically, our survey consisted of performing two P-wave refraction traverses at the project site. The purpose of our study was to develop subsurface velocity profiles of the areas surveyed, and to assess the apparent rippability of the subsurface materials. This data report presents our survey methodology, equipment used, analysis, and results.

2. SCOPE OF SERVICES

Our scope of services included:

- Performance of two seismic P-wave refraction profiles in the project area.
- Compilation and analysis of the data collected.
- Preparation of this data report presenting our results, conclusions and recommendations.

3. SITE AND PROJECT DESCRIPTION

The project site is located near the northeast corner of the intersection between North Las Posas Road and West Mission Road in San Marcos (Figures 1 and 2). The study area is a gravel-covered parking lot, which gently slopes to the southeast. Outcrops of weathered granitic rock were observed to the north of the study area. Figures 2 and 3 depict the general conditions in the area of the seismic lines.

Based on our discussions with you, it is our understanding that the proposed project includes the construction of a new maintenance and operations facility. Preparation of the site will likely include cuts of up to approximately 15 feet deep.

4. SURVEY METHODOLOGY

A seismic P-wave (compression wave) refraction survey was conducted at the site to evaluate the rippability characteristics of the subsurface materials and to develop subsurface velocity profiles of the areas surveyed. The seismic refraction method uses first-arrival times of refracted seismic waves to estimate the thicknesses and seismic velocities of subsurface layers. Seismic P-waves

generated at the surface, using a hammer and plate, are refracted at boundaries separating materials of contrasting velocities. These refracted seismic waves are then detected by a series of surface vertical component geophones and recorded with a 24-channel Geometrics Geode seismograph. The travel times of the seismic P-waves are used in conjunction with the shot-to-geophone distances to obtain thickness and velocity information on the subsurface materials.

Two seismic lines (SL-1 and SL-2) were conducted in the study area. The general locations and lengths of the lines were selected by your office. Shot points (signal generation locations) were conducted along the lines at the ends, midpoint, and intermediate points between the ends.

The seismic refraction theory requires that subsurface velocities increase with depth. A layer having a velocity lower than that of the layer above will not generally be detectable by the seismic refraction method and, therefore, could lead to errors in the depth calculations of subsequent layers. In addition, lateral variations in velocity, such as those caused by core stones, intrusions or boulders can also result in the misinterpretation of the subsurface conditions.

In general, seismic wave velocities can be correlated to material density and/or rock hardness. The relationship between rippability and seismic velocity is empirical and assumes a homogenous mass. Localized areas of differing composition, texture, and/or structure may affect both the measured data and the actual rippability of the mass. The rippability of a mass is also dependent on the excavation equipment used and the skill and experience of the equipment operator.

The rippability values presented in Table 1 are based on our experience with similar materials and assume that a Caterpillar D-9 dozer ripping with a single shank is used. We emphasize that the cutoffs in this classification scheme are approximate and that rock characteristics, such as fracture spacing and orientation, play a significant role in determining rock rippability. These characteristics may also vary with location and depth. For trenching operations**,** the rippability values should be scaled downward. For example, velocities as low as 3,500 feet/second may indicate difficult ripping during trenching operations. In addition, the presence of boulders, which can be troublesome in a narrow trench, should be anticipated.

Table 1 – Rippability Classification	
Seismic P-wave Velocity	**Rippability**
0 to 2,000 feet/second	Easy
2,000 to 4,000 feet/second	Moderate
4,000 to 5,500 feet/second	Difficult, Possible Blasting
5,500 to 7,000 feet/second	Very Difficult, Probable Blasting
Greater than 7,000 feet/second	Blasting Generally Required

It should be noted that the rippability cutoffs presented in Table 1 are slightly more conservative than those published in the Caterpillar Performance Handbook (Caterpillar, 2011). Accordingly, the above classification scheme should be used with discretion, and contractors should not be relieved of making their own independent evaluation of the rippability of the on-site materials prior to submitting their bids.

5. RESULTS

As previously indicated, two seismic traverses were conducted as part of our study. The collected data were processed using SIPwin (Rimrock Geophysics, 2003), a seismic interpretation program, and analyzed using SeisOpt Pro (Optim, 2008). SeisOpt Pro uses first arrival picks and elevation data to produce subsurface velocity models through a nonlinear optimization technique called adaptive simulated annealing. The resulting velocity model provides a tomography image of the estimated geologic conditions. Both vertical and lateral velocity information is contained in the tomography model. Changes in layer velocity are revealed as gradients rather than discrete contacts, which typically are more representative of actual conditions.

Figures 4a and 4b present the velocity models generated from our study. The approximate locations of the seismic refraction traverses are shown on the Line Location Map (Figure 2). In general, the effective depth of evaluation for a seismic refraction traverse is approximately one-third to one-fifth the length of the spread.

6. CONCLUSIONS AND RECOMMENDATIONS

The results from our seismic survey revealed distinct layers/zones in the near surface that likely represent soil overlying granitic bedrock with varying degrees of weathering. Figures 4a and 4b

provide the velocity models calculated from SeisOpt Pro. Distinct vertical and lateral velocity variations are evident in the models. These inhomogeneities are likely related to the presence of remnant boulders, intrusions and differential weathering of the bedrock materials. Moreover, the models reveal that the depth to high velocity material is very shallow in some areas.

Based on the refraction results, variability in the excavatability (including depth of rippability) of the subsurface materials should be expected across the project area. Furthermore, blasting may be required depending on the excavation depth, location, and desired rate of production. In addition, oversized materials should be expected. A contractor with excavation experience in similar difficult conditions should be consulted for expert advice on excavation methodology, equipment and production rate.

7. LIMITATIONS

The field evaluation and geophysical analyses presented in this report have been conducted in general accordance with current practice and the standard of care exercised by consultants performing similar tasks in the project area. No warranty, express or implied, is made regarding the conclusions, recommendations, and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be present. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface surveying will be performed upon request.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Southwest Geophysics, Inc. should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document. This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said partiesô sole risk.

8. SELECTED REFERENCES

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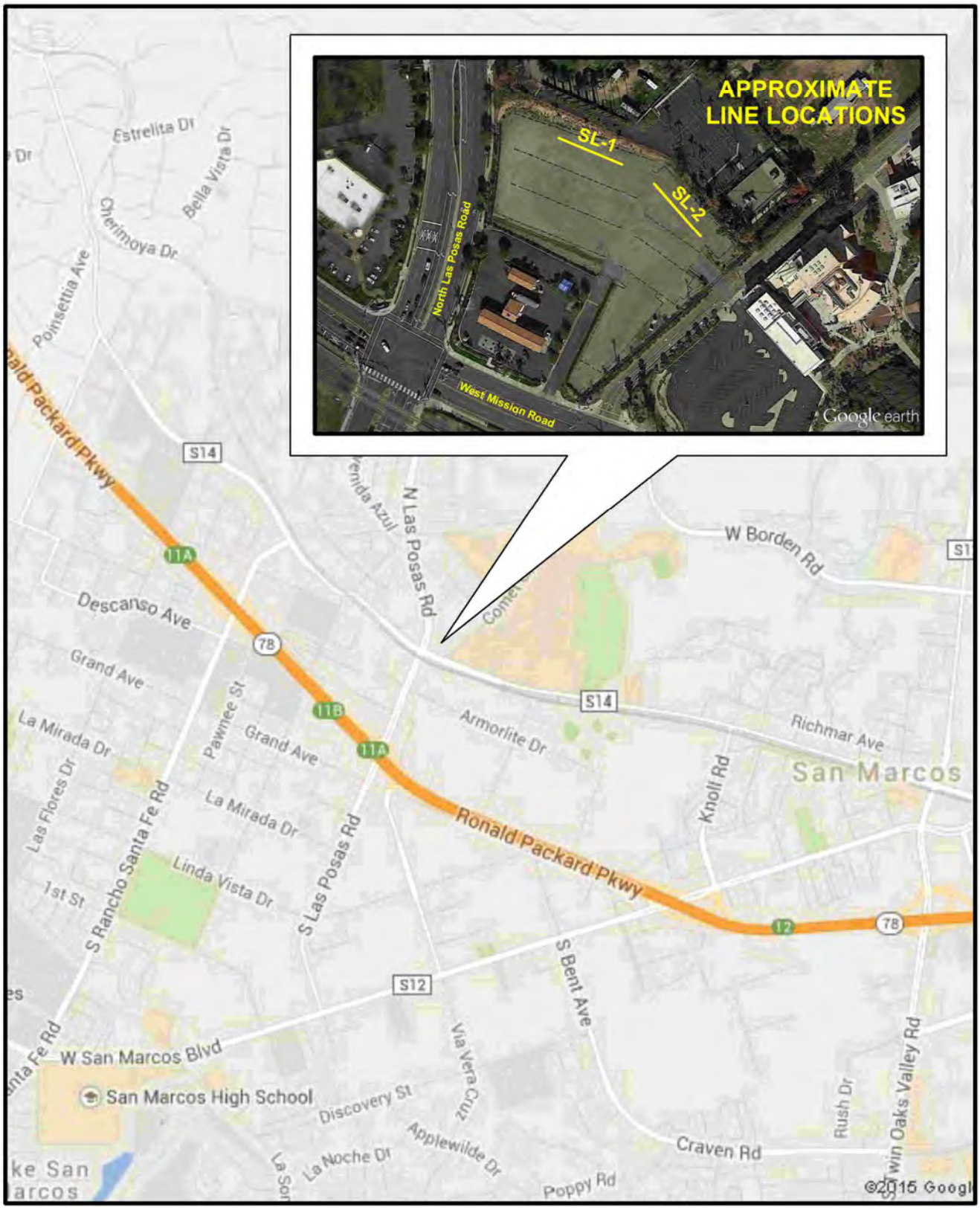


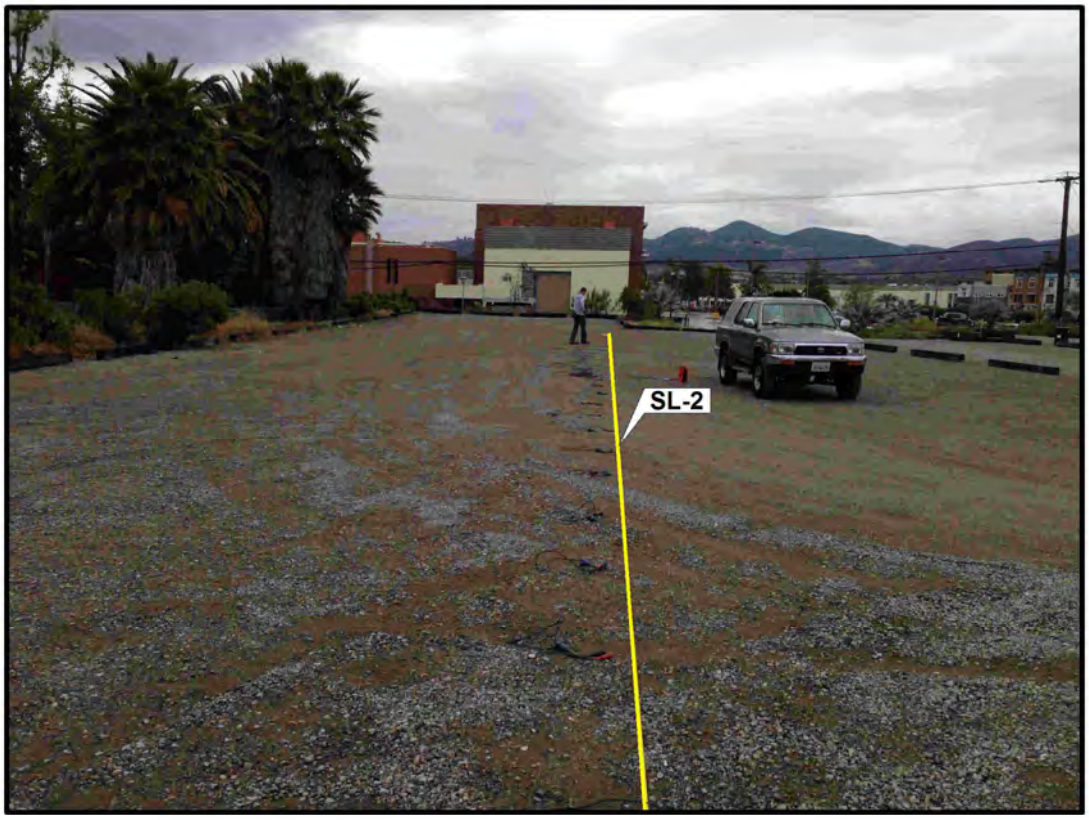
SITE LOCATION MAP	N	Proposed Las Posas Project Palomar College San Marcos, California	SOUTHWEST GEOPHYSICS INC.
		Project No.: 115196 Date: 05/15	Figure 1

LINE LOCATION MAP

Proposed Las Posas Project
Palomar College
San Marcos, California

Figure 2

0 100 200
approximate scale in feet



SITE PHOTOGRAPHS

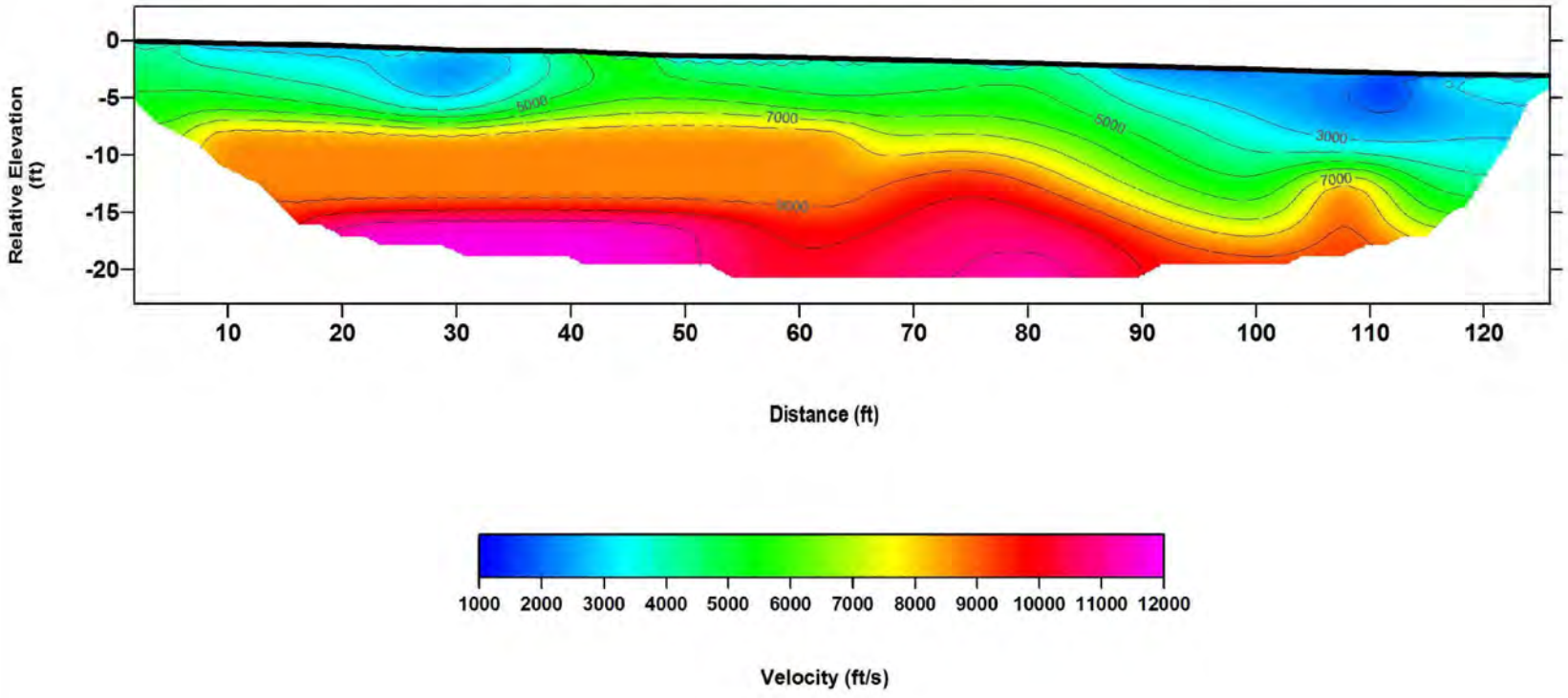
Proposed Las Posas Project
Palomar College
San Marcos, California

Project No.: 115196 | Date: 05/15

SOUTHWEST GEOPHYSICS INC.

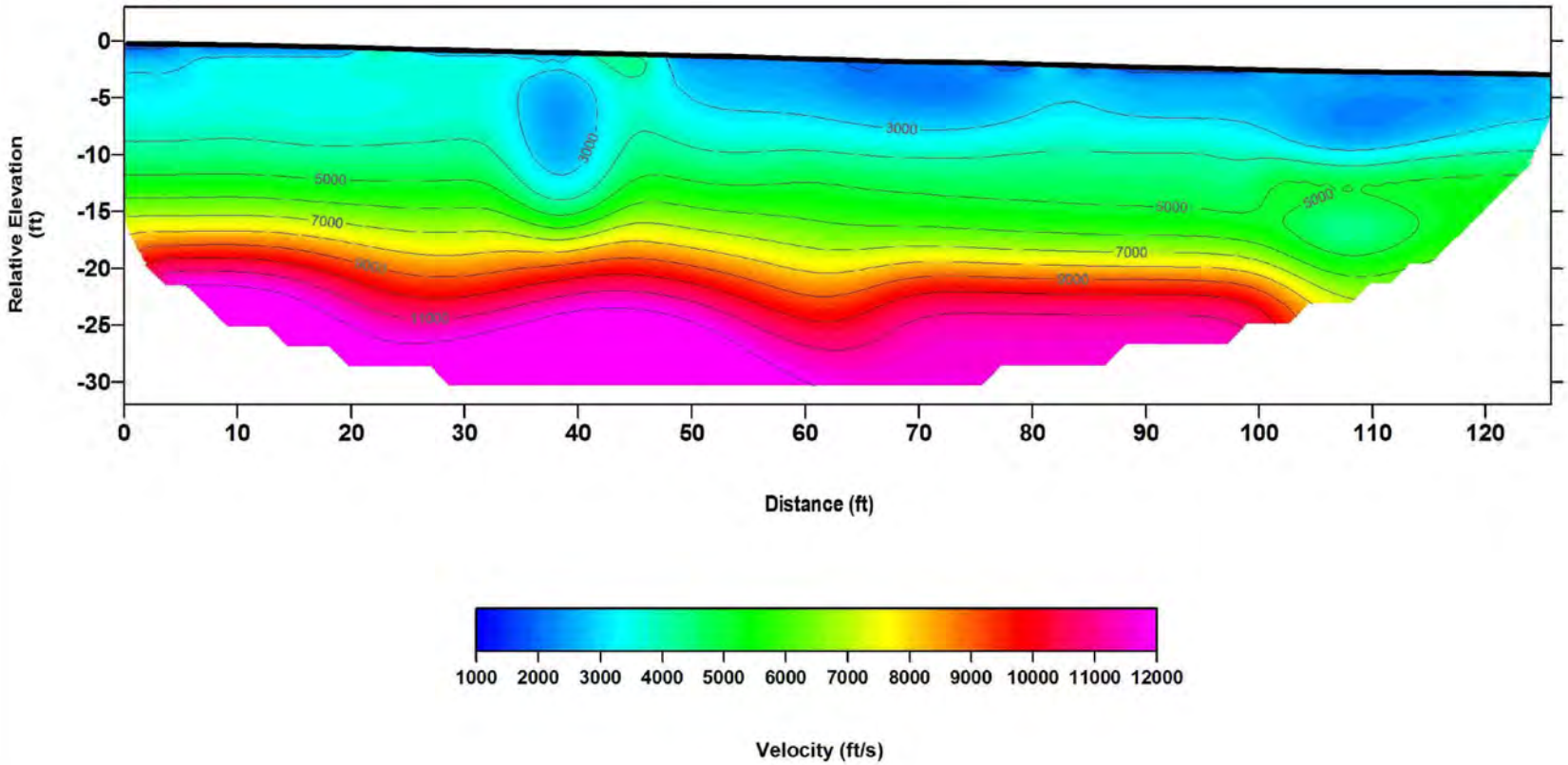
Figure 3

TOMOGRAPHY MODEL



SEISMIC PROFILE SL-1	Proposed Las Posas Project Palomar College San Marcos, California Project No.: 115196 Date: 05/15	SOUTHWEST GEOPHYSICS INC. Figure 4a	**Note: Contour Interval = 1,000 feet per second**

TOMOGRAPHY MODEL



SEISMIC PROFILE
SL-2

Proposed Las Posas Project
Palomar College
San Marcos, California

Project No.: 115196 | Date: 05/15

SOUTHWEST GEOPHYSICS INC.

Figure 4b

Note: Contour Interval = 1,000 feet per second