

**APPENDIX G.**  
**PHASE I ENVIRONMENTAL ASSESSMENT AND**  
**LIMITED PHASE II NEAR SURFACE SOIL INVESTIGATION**

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## Phase I Environmental Site Assessment

**36104 Oak Glen Road, 240 Acres (APN Numbers 0321-082-15; 0321-101-02; -12; And -20), Casa Blanca Ranch, City Of Yucaipa, San Bernardino County, California.**



**December 19, 2011  
J.N. 361-11**

**ELBERTA, LLC & SOCAL CASA BLANCA, LP  
C/O MERIDIAN LAND DEVELOPMENT  
19153 Town Center Drive, Suite 106  
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December 19, 2011  
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past + present + future  
*it's in our science*

Engineers, Geologists  
Environmental Scientists

**ELBERTA, LLC & SOCAL CASA BLANCA, LP  
C/O MERIDIAN LAND DEVELOPMENT**

19153 Town Center Drive, Suite 106  
Apple Valley, California, 92308

Attention: Mr. Jonathan Weldy

**Subject: Phase I Environmental Site Assessment, 36104 Oak Glen Road, 240 Acres (APN Numbers 0321-082-15; 0321-101-02; -12; and -20), Casa Blanca Ranch, City of Yucaipa, San Bernardino County, California.**

Dear Mr. Weldy:

The Environmental Division of Petra Geotechnical, Inc. (Petra) is pleased to present this Phase I Environmental Site Assessment for the above-referenced site. This investigation has been conducted in accordance with our Proposal No. 1347-11, dated October 21, 2011, and in conformance with the scope and limitations of the standards set forth in the American Society for Testing and Materials (ASTM) Practice E 1527-05 and the EPA's All Appropriate Inquiry (AAI) regulations 40 CFR Part 312. This assessment has revealed potential recognized environmental conditions within the subject site. These conditions and recommendations pertaining to them are discussed within this report.

This opportunity to be of service to you is sincerely appreciated. Please do not hesitate to call this office if you have questions pertaining to this report.

Respectfully submitted,

Petra Geotechnical, Inc.  
**ENVIRONMENTAL DIVISION**

  
Jonathan Cain  
Senior Project Geologist

  
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REA-I 1655

## EXECUTIVE SUMMARY

### PHASE I ENVIRONMENTAL SITE ASSESSMENT

**Casa Blanca Ranch,  
36104 Oak Glen Road,  
240 Acres (APN Numbers 0321-082-15; 0321-101-02; -12; and -20)  
City of Yucaipa, San Bernardino County, California.**

### INTRODUCTION

The information presented in this report includes the results of our recent field reconnaissance, a review of various federal, state, and local government agency records, and a review of historic aerial photographs and topographic maps for the site vicinity. Our field reconnaissance, data gathering and compilation was performed by Mr. Jonathan Cain, Senior Project Geologist, with oversight by Dr. Siamak Jafroudi President and Registered Environmental Assessor.

### SITE DESCRIPTION AND GENERAL INFORMATION

- The subject site is located at 36104 Oak Glen Road, northeast of the intersection of Oak Glen Road and Cherry Croft Drive, in the City of Yucaipa, San Bernardino County, California. The subject site is comprised of approximately 240 acres with four separate Assessor's Parcel Numbers (APN Numbers 0321-082-15; 0321-101-02; -12; and -20). At the time of our investigation, the site was a vacant ranch with hilltops and canyons used for agriculture.
- The subject site has a gentle to moderate gradient descending from the eastern to the western portion of the site. Steeper gradient were observed within the canyon areas. The main branch of Wilson Creek flows from the northeast corner of the subject site through the west-central portion of the site. The highest elevations within the property form gently sloping ridges with tributary canyons which dissect the ridge lines and flow to Wilson Creek.
- Several buildings are located within the southwest portion of the site which is the operation center of the ranch. The operation center includes the ranch house and mobile home, garage, caretaker's house, workshop with attached storage shed, and packing building. The workshop and attached storage shed contained drums and containers of oil, solvents, and gasoline along with fluorescent lights and various tools and equipment. Drums and containers were also observed within and around the packing building. Minor staining was noted on the concrete floor of the workshop and wooden floor of the attached storage shed. The workshop contained an approximate 3ft. x 3ft. x 3ft. sunken pit with a drain pipe that extended to the outside back of the building. Dark staining of soils was observed outside of the attached storage shed doors and along the northeast corner of the packing building.
- Two pole-mounted transformers were observed adjacent to the workshop with attached shed. No signs of release were noted below the transformers.
- South and east of the main residence are groves adjacent to Oak Glenn Road. A large, dry pond area was observed within the groves below the workshop area. A small pond is east-northeast of

the main residence close to the grove. A second grove area with adjacent smaller dry pond was observed just north of the packing building. The remainder of the site is agricultural fields and natural land with dirt access road throughout the property.

- A large water tank, owned and operated by Yucaipa Valley Water District is located within the southern portion of the property on a leased portion of the land.
- Farm and household trash and debris were observed throughout the site.
- Based on information obtained during this investigation, the site appears to have been predominantly a farm used for agriculture from at least the early 1900's until present. From approximately 1938 through present different portions of the land were brought into cultivation and planted with groves and fields for agriculture. It has been reported that one water well (inactive) and two water tunnels exist on the site. The well and tunnels were not observed during our site reconnaissance. Historic information dating back to 1901 was reviewed during this investigation.
- No vicinity sites were identified in our search of various government agency database records, which appear to have impacted the soils or groundwater beneath the subject site.

### **RECOGNIZED ENVIRONMENTAL CONDITIONS**

Recognized environmental conditions are defined by the American Society of Testing and Materials (ASTM) as any hazardous substance or petroleum product under conditions that indicate an existing, past, or material threat of release into the structures, ground, groundwater, or surface water at the subject site. If the presences of recognized environmental conditions are identified on a subject site, it may warrant additional research, site investigation, and/or action.

The following areas represent a potential recognized environmental condition with regards to the subject site.

1. Workshop with attached shed: staining of the concrete, soils and the contents within and surrounding the area.
2. Packing building: staining of the soils and the contents within and surrounding the area.
3. Old buildings: potential for lead based paint and termiticides, based on the age of the buildings (over 50 years old).
4. Two pole-mounted transformers: potential for PCB's.
5. Grove areas, agriculture fields, drainage channels and ponds: pesticide residues.

**OTHER SITE CONSIDERATIONS**

Items, if presented below, are not considered recognized environmental conditions in accordance with ASTM 1527-05. Although these items may warrant consideration in conjunction with any planned development activities, they are not recognized environmental conditions. The information regarding possible actions relative to these items has been provided as guidance.

1. In the event the well and water tunnels are not intended for future use, it is recommended that they be abandoned in accordance with the California Well Standards as published by the California Department of Water Resources (Bulletin 74-81 and 74-90), with oversight provided by the appropriate agencies.
2. If the transformers are to be removed, it is recommended that the removal be completed by a licensed contractor or the utility company responsible for the transformers.
3. There are septic tanks and leach fields on the site. During development, it is recommended that they be removed in accordance with current regulations.
4. It is unknown if asbestos-containing materials are present in the structures located on the site. If the structures are to be renovated or demolished, it is recommended that they be assessed for asbestos-containing materials. If present, asbestos-containing materials should be abated prior to demolition in accordance with current regulations.
5. Based on the age of the buildings (over 50 years old), it is likely that lead-based paints are present. If the structures are to be renovated or demolished, it is recommended that they be assessed for lead-based paints. If present, lead-based paints should be abated prior to demolition in accordance with current regulations.
6. It is recommended that all trash and debris observed on the site be removed and disposed in accordance with current regulations.
7. Disposal of fluorescent lights and ballasts.

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**ELBERTA, LLC and SOCAL CASA BLANCA, LP**  
**c/o MERIDIAN LAND DEVELOPMENT**  
*Casa Blanca Ranch, 36104 Oak Glen Road/Yucaipa*  
*240 Acres (APN Numbers 0321-082-15; 0321-101-02; -12; and -20)*

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## PHASE I ENVIRONMENTAL SITE ASSESSMENT

**Casa Blanca Ranch,  
36104 Oak Glen Road,  
240 Acres (APN Numbers 0321-082-15; 0321-101-02; -12; and -20)  
City of Yucaipa, San Bernardino County, California.**

### INTRODUCTION

The information presented in this report includes the results of our recent field reconnaissance, a thorough review of various federal, state, and local government agency records, and a review of historic aerial photographs and topographic maps for the site vicinity. This report includes a summary of our findings, our opinion as to the current environmental condition of the site, and recommendations for additional work, if needed.

#### Purpose

This investigation was conducted to determine if any recognized environmental conditions exist on the subject site. Recognized environmental conditions are defined by the American Society for Testing and Materials (ASTM) as any hazardous substance or petroleum product under conditions that indicate an existing, past, or material threat of release into the structures, ground, groundwater, or surface water at the subject site.

This investigation is also intended to satisfy the requirement for conducting all appropriate inquiries into the previous ownership and uses of a property for the purposes of meeting the all appropriate inquiries provisions necessary to qualify for certain landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

We have performed this investigation in conformance with the scope and limitations of the standards set forth in the ASTM Practice E 1527-05 and the EPA's All Appropriate Inquiry (AAI) regulations 40 CFR Part 312.

#### Involved Parties

This report was prepared by the Environmental Division of Petra Geotechnical, Inc. (Petra), at the request of Meridian Land Development for their exclusive use. Use of this report or reliance thereon by other parties or projects is not authorized. This report may not be suitable for other parties or other purposes

### SCOPE OF INVESTIGATION

The scope of this investigation included the following:

1. Performing a site reconnaissance to identify the current conditions and land use of the subject site and adjoining properties. Visual evidence of prior uses of the subject site and adjoining properties were noted. The site reconnaissance included a visual inspection of the site surface and the site perimeter.
2. Researching historical land use of the subject site and vicinity by reviewing available historical aerial photographs, United States Geologic Survey (USGS) topographic maps, fire insurance maps, city directories, and other reasonably ascertainable maps and data.
3. Conducting a search for environmental liens and Activities and Use Limitations (AULs) for the property.
4. Performing a literature study to identify local and regional geological conditions as they pertain to commenting of recognizes environmental conditions for the site.
5. Obtaining and reviewing a search of pertinent federal, state, and local regulatory agency databases concerning environmental conditions on and in the vicinity of the site. As specified in the ASTM and AAI standards, the following databases were searched using, at a minimum, the recommended search radius:
  - Federal National Priority List (NPL) site list,
  - Federal Delisted NPL site list,
  - Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) site list,
  - Federal CERCLIS- No Further Remedial Action Planned (CERC-NFRAP) site list,
  - Federal Resource Conservation and Recovery Act Information (RCRA) Corrective Action Report (CORRACTS) facilities list,
  - Federal RCRA non-CORRACTS Treat, Store and Dispose (RCRA-TSD) facilities list,
  - Federal RCRA generators list,
  - Federal institutional control/engineering control registries,
  - Federal Emergency Response Notification System (ERNS) list,
  - State and tribal lists of hazardous waste sites identified for investigation or remediation including: State- and tribal-equivalent NPL, State, and tribal-equivalent CERCLIS lists,
  - State and tribal landfill and/or solid waste disposal site lists,
  - State and tribal leaking storage tank lists,
  - State and tribal registered storage tank lists,
  - State and tribal institutional control/engineering control registries,
  - State and tribal voluntary cleanup sites, and
  - State and tribal Brownfield sites.

In the interest of thoroughness, numerous non-ASTM and non-AAI required databases were also searched. These databases are listed and discussed in the database search included within this report.

6. Contacting and interviewing knowledgeable persons, such as property owners, managers, and representatives of local government agencies regarding historical site use and current site conditions, if possible.
7. Evaluating the presence of recognized environmental conditions at the subject site through visual observation and research of reasonably ascertainable records. Recognized environmental conditions may include the presence of hazardous materials, petroleum products, underground storage tanks, above ground storage tanks, drums, chemical containers, polychlorinated biphenyls, liquid or solid wastes, oil wells, and areas indicative of potential contamination including stained soils and/or pavement, stressed vegetation, drains, sumps, pits, ponds, lagoons, odors, and septic systems.
8. In addition to those items discussed above, several items outside the scope of ASTM Practice E 1527-05 and EPA regulation 40 CFR Part 312 have been addressed in this investigation. The non-scope items include:
  - Visual examination of the site for the potential presence of asbestos containing materials.
  - Visual examination of the site for the potential presence of lead-based paint.
9. Preparing a report presenting the results of our investigation.

Unless listed above, this investigation does not include any testing or sampling of materials (such as an assessment for the potential presence of methane or radon, asbestos or lead-based paints, or the sampling and testing of soil, air, surface water, or groundwater). This investigation does not include evaluating the site for the presence of wetlands, regulatory compliance, or other items beyond the scope of ASTM E 1527-05 or 40 CFR Part 312, nor is it an assessment for vapor intrusion as defined by ASTM E 2600-08.

### SITE OVERVIEW

According to the photorevised 1988 topographic map of the Yucaipa Quadrangle, prepared by the USGS, the site is located in portions of Sections 29 and 30, Township 1 South, Range 1 West, San Bernardino Base and Meridian. The site elevation ranges from approximately 3040 to 3240 feet above mean sea level (msl). A site location map is included as Figure 1.

The subject site is located approximately 850 feet east-northeast of the intersection of Oak Glenn Road and Cherry Croft Drive in Yucaipa, California. The subject site is comprised of approximately 240 ± acres. At the time of our investigation, the northern and eastern portions of the site were agriculture fields. The main branch of Wilson Creek flows from the northeast corner of the subject site through the west-central portion of the site. The main residence and operation center are located within the southwestern

portion of the site and are vacant. A map showing the current configuration of the site is included as Figure 2.

### **PREVIOUS LAND USE**

Based on information obtained during this investigation, the site appears to have been predominantly a farm used for agriculture from at least the early 1900's until present. From approximately 1938 through present different portions of the land were brought into cultivation and planted with groves and fields for agriculture. Historical information reviewed during this investigation includes aerial photographs (dating back to 1938), USGS topographical maps (dating back to 1901), city directories an environmental lien search and interviews. EDR reports that there is no Sanborn™ Map coverage for the site vicinity.

### **PREVIOUS REPORTS**

No previous reports were provided to Petra for review during this investigation.

### **ENVIRONMENTAL SETTING**

The following sections provide an overview of the regional and local geologic setting and include information pertaining to groundwater conditions in the vicinity of the subject site. Geotechnical hazard information (faults, landslides, etc.) is not part of this investigation. This section does not constitute a geotechnical investigation of the subject site and should not be taken as such.

#### **Geology**

The subject property is situated within the San Gabriel Mountains Block (upper plate of the San Vincent thrust) within the northern part of the Peninsular Ranges Geomorphic Province. The San Gabriel Mountains Block is underlain by granitic and metamorphic crystalline rock that are Cretaceous in age or older. The block is bounded on the east-northeast by the San Andreas Fault Zone and the San Bernardino Mountains, and on the south-southwest by the Banning Fault and on the north-northwest by the Vincent Thrust. In closer proximity, the subject site is located with an area of northeast trending thrust faulting associated with the Vincent Thrust and the Crafton Hills Fault Zone. The site lies less than 2 mile east of the Crafton Hills, approximately 0.7 mile north of the Yucaipa Ridge, and approximately 0.5 mile south-southwest of the San Bernardino Mountains.

The site is located on a narrow alluvial valley located between the Crafton Hills, Yucaipa Ridge and the San Bernardino Mountains. These Quaternary alluvial deposits extend southwest into the Yucaipa basin

from the flanks of the San Bernardino Mountains. The active alluvial drainage Wilson Creek flows from the northeast corner of the subject site through the west-central portion of the site.

### **Surface Water**

No indication of surface water was observed on the site at the time of this investigation.

### **Groundwater**

Groundwater depth varies within the area due to water being pumped from nearby wells. Flow direction beneath the subject site is toward the southwest and the Yucaipa basin. Multiple groundwater wells were listed within the same section as the subject site on the CDWR historic groundwater level database (CDWR, 2010). Although Wilson Creek stream bed was dry during our site investigation, periodic surface water flow will be present within the stream.

## **RESULTS OF INVESTIGATION**

The results of our site reconnaissance and inspection of adjacent sites, agency database review, and historical land use study are presented in the following sections.

### **Site Inspection**

Petra conducted a reconnaissance of the subject site on August 30, 2010. Site photographs are included as Plate A and a completed Site Inspection Checklist is located in Appendix A. Our site observations are summarized below.

1. Access to the site was obtained from Cherry Croft Drive along a gated, dirt road.
2. The subject site has a gentle to moderate gradient descending from the eastern to the western portion of the site. Steeper gradient were observed within the canyon areas. The main branch of Wilson Creek flows from the northeast corner of the subject site through the west-central portion of the site. The highest elevations within the property form gently sloping ridges with tributary canyons which dissect the ridge lines and flow to Wilson Creek.
3. Several buildings are located within the southwest portion of the site, which is the operation center of the ranch. These include the following:
  - Main ranch house which is vacant. A septic tank and leach fields are associated with this residences. The house contains five 1-gallon paint cans, and an oil burning furnace within the cellar. Along the south side of the house are an air conditioning unit and a 240-gallon steel heating oil tank.

- Mobile home located to the south of the main residence is vacant and non-accessible. On the back porch are two 5-gallon propane tanks, household trash and debris. Along the east side of the mobile home is a small heating oil tank.
  - Detached garage which contains four 5-gallon drums of paint and primer, approximately forty-three 1-gallon cans of paint and primer, two boxes of joint compound, three small cans of paint, two 25-ounce cans of sealer, one bottle of spreader sticker and one bag of peat. The garage contains fluorescent lighting and there are areas of staining on the concrete floor.
  - One corrugated metal workshop building containing a metal wood burning stove, miscellaneous pieces of equipment and tools, nine tires, one steel 55-gallon motor oil drum and, one plastic 5-gallon valvoline hydraulic oil bucket and one metal air filter. The shop contains fluorescent lighting and there are areas of staining on the concrete floor. There was also an approximate 3ft. x 3ft. sunken pit with a drain pipe that extended to the outside (back) of the building
  - Attached to the east side of the workshop is a small shed containing one steel drum with a sticker for mobile, approximately seven steel 5-gallon racing gasoline drums, nine plastic 5-gallon hydraulic oil drums and five rusted unmarked cans and trash. There are areas of staining on the wooden floor.
  - Caretaker's house which is vacant. A septic tanks and leach field are associated with this residence along the west side.
  - A corrugated metal packing building containing one large fill top freezer, two steel 55-gallon drums one that is empty the other containing a small amount of unknown liquid, one 5-gallon plastic drum of tractor fluid, two 1-gallon paint cans and assorted household cleaning supplies of bleach and soaps. Along the outside of the packing building there were one 55-gallon drum used as a fire pit, one 55-gallon drum of unknown substance, two 5-gallon plastic container of oil, an oil drain pan, one 5-gallon steel drum with unknown substance, twelve tires and a trailer.
4. Two pole-mounted transformers were observed adjacent to the workshop with attached shed. No staining was observed below the transformers.
  5. The main branch of Wilson Creek flows from the northeast corner of the subject site through the west-central portion of the site. Three areas were observed where trash had been dumped. The trash included pieces of wood and metal, chairs, carpet, one cooler and several tires. Also within the northeast portion of Wilson creek was a small wooden blind with empty shotgun shells trash and a camper shell.
  6. South and east of the main residence are groves adjacent to Oak Glenn Road. A large, dry pond area was observed within the groves below the workshop area. A small pond is east-northeast of the main residence close to the grove. A second grove area with adjacent smaller dry pond was observed just north of the packing building. The remainder of the site is agricultural fields and natural land with dirt access road throughout the property.

7. A large water tank, owned and operated by Yucaipa Valley Water District is located within the southern portion of the property on a leased portion of the land.

#### **Adjacent Site and Vicinity Observations**

The site is situated in an area mixed land use. Our specific observations are noted below:

North To the north of the subject site is natural open land, possibly some agricultural land and the San Bernardino Mountains.

East To the east of the subject site is ranch land and residential use beyond.

South To the south of the subject site is Oak Glenn Road with natural open land and residences beyond.

West To the west of the subject site is Cherry Croft Drive with natural open land and residences beyond.

#### **Government Agency Database Research**

A search of federal, state, and local government listings was performed by Environmental Data Resources, Inc. (EDR) for the purposes of this report. The search radius used for all government databases meets or exceeds the standard search distance adopted by ASTM and AAI.

#### **Results of Agency Records Search**

A data search of the various government agency records listed in Appendix B revealed no listings for the subject site. The EDR reported no mapped sites within the requested search radii. Six orphan sites (sites with inadequate address information to be mapped by EDR) were identified during the agency database search. Refer to the EDR Report in Appendix C for the search radii completed for this investigation.

Orphan Sites: Orphan sites are unable to be located due to lack of complete address information. Six orphan sites are listed in the EDR report. Orphan sites may appear on more than one database. None of the orphan sites listed in the EDR report are considered recognized environmental conditions, with regards to the subject site, due to the nature of the listings and/or their distance from the subject site.

Local Agencies

Petra reviewed information held by the agencies listed below during the course of this investigation.

A. San Bernardino County

The San Bernardino County Hazardous Permits Department maintains Environmental Case Listings related to underground storage tanks and tank cleanup sites in the County of San Bernardino. Records held by this agency were accessed by EDR during the government database search. No listings for the subject site were reported by EDR.

B. California Regional Water Quality Control Board

The California Regional Water Quality Control Board-Santa Ana Region (RWQCB) maintains records of leaking underground storage tank sites and groundwater cleanups for sites in the County of San Bernardino. Records held by the RWQCB were accessed by EDR during the government database search. No listings for the subject site were reported by EDR.

C. Geotracker

The Geotracker website maintains a record of environmental data for regulated facilities in California. No database listings for the subject site were reported on Geotracker.

D. California Division of Oil, Gas, and Geothermal Resources

According to the California Division of Oil, Gas, and Geothermal Resources (DOGGR), Map W 1-7 there are no active or abandoned oil, or gas wells located on the subject site. Further, there were no indications of any such wells found during our reconnaissance of the subject site. A copy of this map is included in Appendix B.

Evaluation of Records Search Results

In summary, based upon evaluation of an agency records search, no sites were identified in various government agency database records, which may have impacted the soils or groundwater beneath the subject site.

Results of Aerial Photo Analysis

Although aerial photographs can often be a valuable source of information in the assessment of historical land usage, it should be understood that information extrapolated from photographic images is strictly interpretation and not necessarily fact. For this reason, it may not be appropriate to draw conclusions regarding previous site activities based solely upon aerial photograph analysis.

In order to provide a complete updated assessment of historical land usage on and in the vicinity of the subject site, aerial photographs with coverage of the subject site and vicinity were obtained from EDR and viewed by a representative of this firm. Photographs from the years 1938, 1953, 1966, 1980, 1990, 1995, and 2005 were provided by EDR. A summary of the information obtained during the aerial photograph review follows. Copies of the aerial photographs obtained from EDR are included in Appendix C.

### 1938

In the 1938 photograph, the main residence and garage are in the southwest portion of the site. One large building is located within the present day operation center located northeast of the main residence. South and east of the main residence are groves adjacent to Oak Glenn Road. A small pond is east-northeast of the main residence close to the grove. Wilson Creek is visible crossing the site from the northeast toward the west-central portion of the site with tributaries extending from the east. Dirt access roads are visible throughout the site. The remainder of the site is agricultural land with canyon areas left natural. The eastern portion of the subject site is not visible in the photograph.

### 1953

In the 1953 photograph, the small pond east-northeast of the main residence is barely visible and another small pond is located north of the large building in the operation center. Three new small buildings have been constructed within the operation center. The remainder of the site appears basically the same as observed in the 1938 photograph. The eastern portion of the subject site is not visible in the photograph.

### 1966

In the 1966 photograph, both small ponds appear to be dry and the remainder of the site is agricultural land with canyon areas left natural. The eastern portion of the subject site is not visible in the photograph.

### 1980

In the 1980 photograph, the small pond located north of the large building in the operation center has reappeared and a large pond is observed east-northeast of the main residence within the groves. The remainder of the site is agricultural land with canyon areas left natural. The eastern portion of the subject site is not visible in the photograph.

1990

In the 1990 photograph, another building has been placed just south of the main residence and the southern most building within the operation center has been removed. Groves have been planted between the main residence and Wilson Creek just west of the operation center. The small pond located north of the operation center appears to be dry and not visible. The existing Yucaipa Valley Water Districts water tank is visible within the southern portion of the property. The remainder of the site is agricultural land with canyon areas left natural. The eastern portion of the subject site is not visible in the photograph.

1995

In the 1995 photograph, the large pond observed east-northeast of the main residence within the groves appears to be dry and the groves south of the pond appear to be reduced in size. The groves between the main residence and Wilson Creek have been reduced in size to just an area north-northeast of the operation center. The remainder of the site is agricultural land with canyon areas left natural. The eastern portion of the subject site is not visible in the photograph.

2005

In the 2005 photograph, the small pond located north of the operation center appears to be in use again. Farming equipment is visible along the northeast portion of the operation center. What appear to be crates of some sort are visible within the Wilson Creek flood plain adjacent a dirt access road. Overall the site and vicinity appear similar to that observed during Petra's site inspection.

**Historical USGS Topographic Maps**

Petra reviewed the historical USGS topographic maps of the site and vicinity provided by EDR (1901, 1954, 1967, 1973, 1980, 1988, and 1996). No land use is shown for the subject site on the maps dated 1901 and 1904. Maps dated from 1954 and later show land use for groves within portions of the subject site. A pond located north-northeast of the main residence appears on the 1954 maps only. The existing pond within the southwestern portion of the site and east of the main residence first appears on the 1988 map. These maps generally support observations made from the aerial photographs reviewed. Copies of the maps reviewed are provided in Appendix C.

### **Environmental Liens and Activity and Use Limitations**

Environmental Liens and Activity and Use Limitations (AUL) indicate restrictions on a property, which may represent a recognized environmental condition for the subject site. A search for Environmental Liens and AULs was conducted by EDR as part of this investigation. The results from this search indicated that there were no recorded Environmental Liens or AULs listed for the subject site. A copy of the lien and AUL search report is provided in Appendix D.

### **Fire Insurance Maps and City Directories**

Fire Insurance Maps provide information on structure locations and operations, which were present at the time of the survey. These maps were completed for most major cities and metropolitan areas, dating from 1867, and provide information into past usage of buildings and how commercial and industrial zoning has changed over time. Sanborn™ Fire Insurance maps were requested for this study. EDR reports that no Sanborn™ Fire Insurance map coverage is available for the site. The memorandum documenting this inquiry is included in Appendix C.

City Directories provide information for a specific address at a specific time. A search of city directories, dating back to 1974 was conducted by EDR for this investigation. The search was conducted for the target property. The only listings for the site address were for the present-day residence and dated back to 1974. No listings, which would indicate a potential concern for the subject site based on the name of the listing, was included in the EDR city directory abstract. EDR reports that the address researched were not identified in the research source. A copy of this search is presented in Appendix C.

### **Interviews**

Petra contacted Mr. Tom Webster co-owner of the subject site. According to Mr. Webster, the site has been a farming ranch from 1907 to the present day. Mr. Webster reports that he is aware of petroleum product on site. Mr. Webster also provided the following information:

1. To his knowledge, there are no notices or other correspondence from any government agency relating to past or current violations of environmental laws.
2. To his knowledge, there are no pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject site.

3. To his knowledge, there are no notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

A copy of the complete interview questionnaire is provided in Appendix D.

### **Client Knowledge**

In compliance with AAI, Petra interviewed the client, Mr. Jonathan Weldy (Meridian Land Development), regarding his knowledge of the subject site. A summary of the questions is provided below.

1. According to the client, he does not have any specialized knowledge or experience related to the property or nearby properties.
2. According to the client, the property has a history of agricultural uses.
3. According to the client, based on his knowledge and experience related to the property, there are obvious indicators that point to the presence of likely presence of contamination at the property. Specifically soil staining around the shop and packing shed.

A copy of the complete client questionnaire is provided in Appendix D.

### **Data Failures and Data Gaps**

In the event that data gaps are identified, the Environmental Professional (EP) will endeavor to comment on the significance of those data gaps. However, the EP cannot, and does not warrant or guarantee that no significant events, releases, or conditions arose, during periods such as data gaps.

Petra reviewed several sources for historical information regarding the subject site. These sources included a government agency database search, a city directory search, a review of historical aerial photographs and historical USGS topographic maps, and interviews with people knowledgeable about the site. No fire insurance maps are reported to be available for the site.

No data gaps were identified during this investigation with understanding the site history. The extent of impact is unknown, if any, to near surface soils from the potential Recognized Environmental Conditions discussed in this report.

### **DISCUSSION OF POTENTIAL ENVIRONMENTAL CONCERNS**

The following discussions of potential environmental concerns are presented to inform the client as to the existence, or lack thereof, of recognized environmental conditions present on the subject site.

#### **Regulatory Actions**

Based upon a thorough search of available federal, state, and local records, no known current regulatory action is pending with respect to the subject site.

#### **Adjacent and Nearby Properties**

No information has been obtained during this investigation which would indicate the presence of recognized environmental conditions adjacent to the subject site that are considered likely to pose a significant impact to soils or groundwater beneath the subject site.

#### **Polychlorinated Biphenyls**

Two pole-mounted transformers were observed by the repair shop within the operation center for the site. No staining was observed below these transformers. If the transformers are to be removed, it is recommended that the removal be completed by a licensed contractor or the utility company responsible for the transformers. Fluorescent light fixtures were present within the buildings on site. Based on the age of the building it is possible that the light fixture ballasts contain PCBs. Additionally, fluorescent light tubes contain trace amounts of mercury.

#### **Underground Storage Tanks**

No information has been obtained during this investigation, which would indicate fuel underground storage tanks (USTs) to be located on the subject site currently nor are USTs reported to have been located on the site in the past. Further, no surface indications of USTs were observed on the subject site during the site reconnaissance.

### **Above Ground Storage Tanks**

No information has been obtained during this investigation, which would indicate above ground fuel storage tanks (ASTs) to be located on the subject site currently, nor are ASTs reported to have been located on the site in the past.

### **Storm Water/Waste Water Discharge**

Storm water/waste water discharge from the site appears to include storm water runoff and water from the onsite water wells and irrigation pipes.

There are septic tanks and leach fields on the site. During development, it is recommended that they be removed in accordance with current regulations.

### **Pesticide Residues**

Based on information obtained during this investigation, the site appears to have been used for agriculture from at least the early 1900's until present. It is unknown if there are any pesticide or herbicide residues remaining in the near surface soils.

### **Asbestos-Containing Materials**

It is unknown if asbestos-containing materials are present in the structures located on the site. If the structures are to be renovated or demolished, it is recommended that they be assessed for asbestos-containing materials. If present, asbestos-containing materials should be abated prior to demolition in accordance with current regulations.

### **Lead-Based Paints**

Based on the age of the buildings (over 50 years old), it is likely that lead-based paints are present. If the structures are to be renovated or demolished, it is recommended that they be assessed for lead-based paints. If present, lead-based paints should be abated prior to demolition in accordance with current regulations.

### **Landfills**

The EDR report does not list any known landfills within the search radius conducted for this investigation. Therefore, landfills do not appear to represent a recognized environmental condition with regards to the subject site.

### **Water Supplies**

Based on information from several sources obtained during this investigation there is one inactive water well and two water tunnels located on the subject site. In the event the wells are not intended for future use, it is recommended that they be abandoned in accordance with the California Well Standards as published by the California Department of Water Resources (Bulletins 74-81 and 74-90), with oversight provided by the appropriate agencies.

### **Waste Generation and Storage**

Debris was observed on the site and included primarily scrap metal; Styrofoam; containers of gas, oil, solvents and chemicals; paint cans and old tires. It is recommended that the debris be removed and disposed, in accordance with current regulations.

## **CONCLUSIONS**

### **General Site Information**

- The subject site is located at 36104 Oak Glen Road, northeast of the intersection of Oak Glen Road and Cherry Croft Drive, in the City of Yucaipa, San Bernardino County, California. The subject site is comprised of approximately 240 acres with four separate Assessor's Parcel Numbers (APN Numbers 0321-082-15; 0321-101-02; -12; and -20). At the time of our investigation, the site was a vacant ranch with hilltops and canyons used for agriculture.
- The subject site has a gentle to moderate gradient descending from the eastern to the western portion of the site. Steeper gradient were observed within the canyon areas. The main branch of Wilson Creek flows from the northeast corner of the subject site through the west-central portion of the site. The highest elevations within the property form gently sloping ridges with tributary canyons which dissect the ridge lines and flow to Wilson Creek.
- Several buildings are located within the southwest portion of the site which is the operation center of the ranch. The operation center includes the ranch house and mobile home, garage, caretaker's house, workshop with attached storage shed, and packing building. The workshop and attached storage shed contained drums and containers of oil, solvents, and gasoline along with fluorescent lights and various tools and equipment. Drums and containers were also observed within and around the packing building. Minor staining was noted on the concrete floor of the workshop and

wooden floor of the attached storage shed. The workshop contained an approximate 3ft. x 3ft. x 3ft. sunken pit with a drain pipe that extended to the outside back of the building. Dark staining of soils was observed outside of the attached storage shed doors and along the northeast corner of the packing building.

- Two pole-mounted transformers were observed adjacent to the workshop with attached shed. No signs of release were noted below the transformers.
- South and east of the main residence are groves adjacent to Oak Glenn Road. A large, dry pond area was observed within the groves below the workshop area. A small pond is east-northeast of the main residence close to the grove. A second grove area with adjacent smaller dry pond was observed just north of the packing building. The remainder of the site is agricultural fields and natural land with dirt access road throughout the property.
- A large water tank, owned and operated by Yucaipa Valley Water District is located within the southern portion of the property on a leased portion of the land.
- Farm and household trash and debris were observed throughout the site.
- Based on information obtained during this investigation, the site appears to have been predominantly a farm used for agriculture from at least the early 1900's until present. From approximately 1938 through present different portions of the land were brought into cultivation and planted with groves and fields for agriculture. It has been reported that one water well (inactive) and two water tunnels exist on the site. The well and tunnels were not observed during our site reconnaissance. Historic information dating back to 1901 was reviewed during this investigation.
- No vicinity sites were identified in our search of various government agency database records, which appear to have impacted the soils or groundwater beneath the subject site.

### **Recognized Environmental Conditions**

Recognized environmental conditions are defined by the American Society of Testing and Materials (ASTM) as any hazardous substance or petroleum product under conditions that indicate an existing, past, or material threat of release into the structures, ground, groundwater, or surface water at the subject site. If the presences of recognized environmental conditions are identified on a subject site, it may warrant additional research, site investigation, and/or action.

The following areas represent a potential recognized environmental condition with regards to the subject site.

1. Workshop with attached shed: staining of the concrete, soils and the contents within and surrounding the area.
2. Packing building: staining of the soils and the contents within and surrounding the area.
3. Old buildings: potential for lead based paint and termiticides; based on the age of the buildings (over 50 years old).
4. Two pole-mounted transformers: potential for PCB's.
5. Grove areas, agriculture fields, drainage channels and ponds: pesticide residues.

### **RECOMMENDATIONS**

The following recommendations are made with regards to additional work to be conducted at the subject site.

1. Based on the use of the site for agriculture from the early 1900's until present, Petra recommends collecting near-surface soil samples to evaluate the site for pesticide residues.
2. Due to the age of the structures on site, Petra recommends collecting near-surface soil samples to evaluate the site for termiticides and lead from lead based paints.
3. Based on the contents within containers and dark soil staining adjacent the workshop with attached shed and the packing building, Petra recommends collecting near-surface soil samples to evaluate the site for hydrocarbons.
4. Though there was no staining below the two pole-mounted transformers at the time of this investigation, Petra recommends collecting near-surface soil samples to evaluate the area for PCB's.

### **OTHER SITE CONSIDERATIONS**

Items, if presented below, are not considered recognized environmental conditions in accordance with ASTM 1527-05. Although these items may warrant consideration in conjunction with any planned development activities, they are not recognized environmental conditions. The information regarding possible actions relative to these items has been provided as guidance.

1. In the event the well and water tunnels are not intended for future use, it is recommended that they be abandoned in accordance with the California Well Standards as published by the California Department of Water Resources (Bulletin 74-81 and 74-90), with oversight provided by the appropriate agencies.

2. If the transformers are to be removed, it is recommended that the removal be completed by a licensed contractor or the utility company responsible for the transformers.
3. There are septic tanks and leach fields on the site. During development, it is recommended that they be removed in accordance with current regulations.
4. It is unknown if asbestos-containing materials are present in the structures located on the site. If the structures are to be renovated or demolished, it is recommended that they be assessed for asbestos-containing materials. If present, asbestos-containing materials should be abated prior to demolition in accordance with current regulations.
5. Based on the age of the buildings (over 50 years old), it is likely that lead-based paints are present. If the structures are to be renovated or demolished, it is recommended that they be assessed for lead-based paints. If present, lead-based paints should be abated prior to demolition in accordance with current regulations.
6. It is recommended that all trash and debris observed on the site be removed and disposed in accordance with current regulations.

#### **LIMITATIONS**

This investigation is based upon the project as described and the environmental data obtained from the field reconnaissance and research performed as outlined in this report. This report has not been prepared for use by parties or projects other than those named or described in this report, additional studies may be required.

Since our investigation is based upon a review of available data and visual inspection of the site, without any invasive investigation, the conclusions presented herein are professional opinions. These opinions have been derived in accordance with current standards of practice, and no warranty is expressed or implied.

This firm's evaluation of previous reports and/or subconsultant reports focuses on the completeness of the information presented in the document, in accordance with applicable rules and regulations, and does not include the establishment of data sufficiency or accuracy.

**QUALIFICATIONS**

Resumes for the staff who contributed to this report are presented in Appendix E.

“We the undersigned declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in § 312.10 of 40 CFR 312. We have the specific qualification based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”



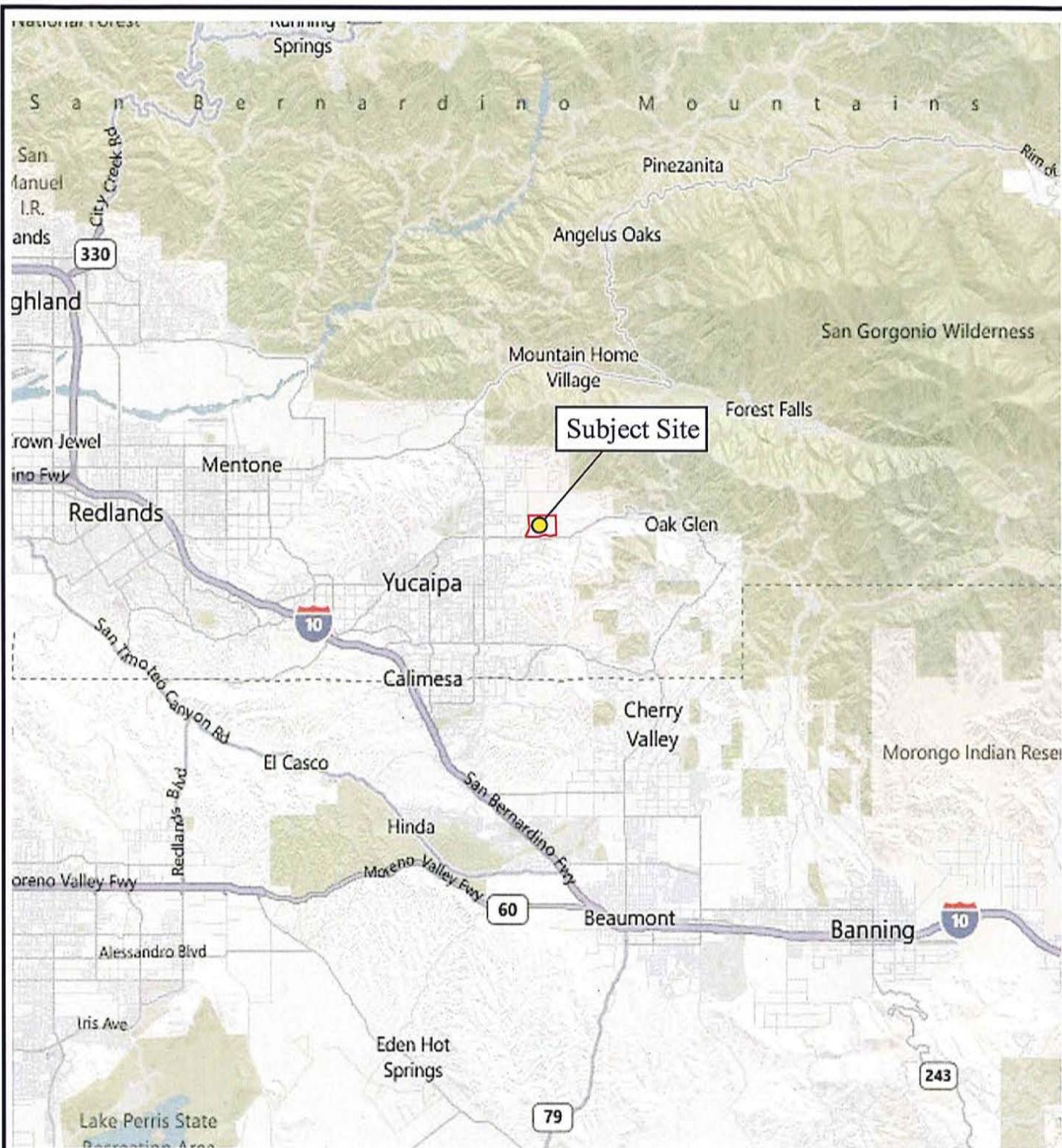
Jonathan Cain  
Senior Project Geologist



Siamak Jafroudi, PhD, GE  
President  
REA-I 1655

**REFERENCES**

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- USGS, 1988, 7.5-Minute Topographic Map, Yucaipa Quadrangle, California, scale 1:24,000
- USGS, 2003, Geologic Map Of The Yucaipa 7.5-Minute Quadrangle, San Bernardino and Riverside Counties, California, scale 1:24,000



Reference: Bing Maps



**PETRA GEOTECHNICAL, INC.**

40880 County Center Drive, Suite R  
Temecula, California 92591  
PHONE: (951) 600-9271

COSTA MESA    TEMECULA    PALM DESERT    SAN DIEGO    SANTA CLARITA

**SITE LOCATION MAP**

Meridian Land Development Project  
Casa Blanca Ranch  
City of Yucaipa, CA

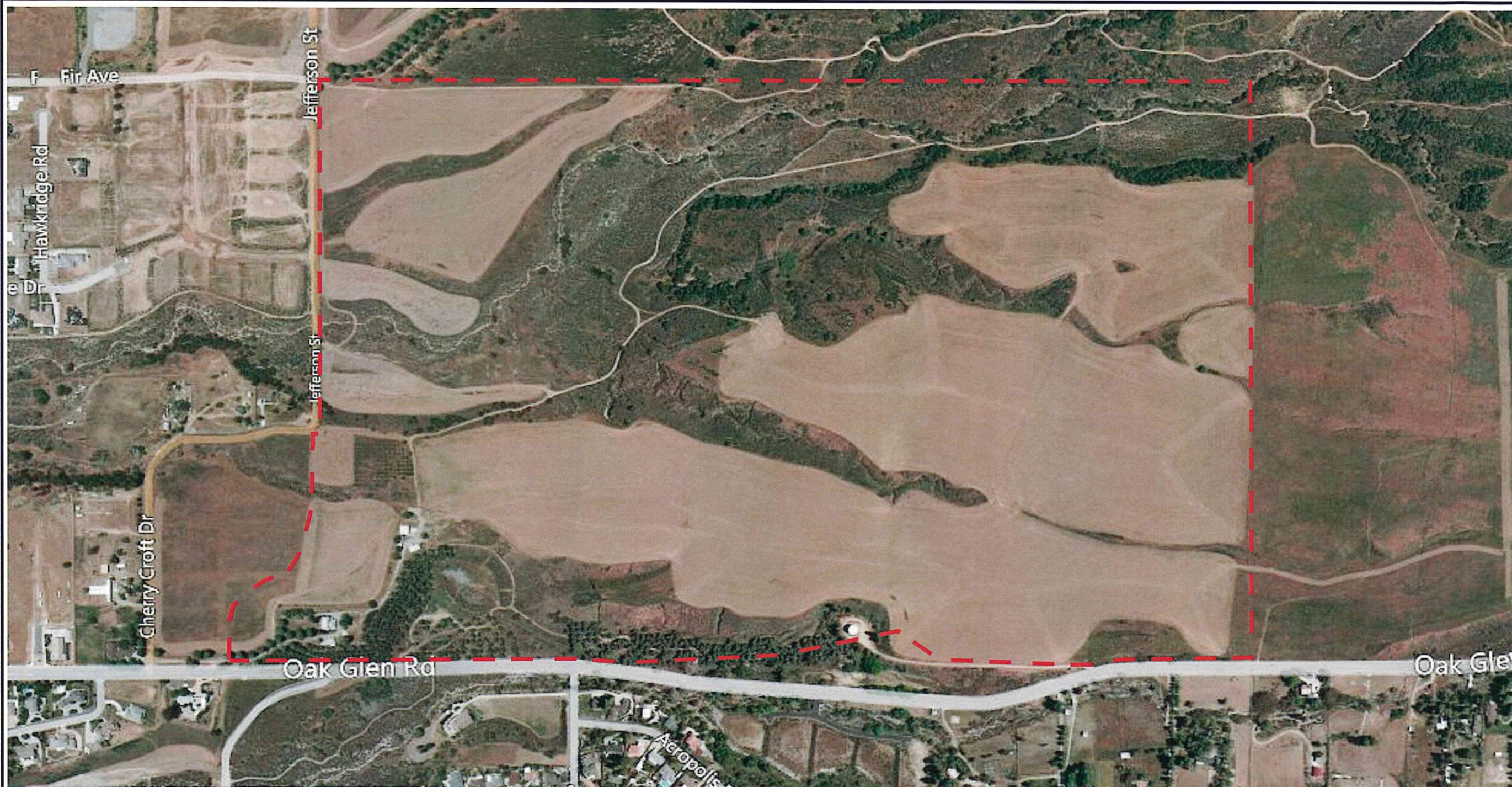
DATE: Dec 2011

J.N.: 361-11

DWG BY: JC

SCALE: None

**Figure 1**



**EXPLANATION**



Approximate Location of Site Boundry



Reference: Bing Maps

**PETRA GEOTECHNICAL, INC.**  
 40880 County Center Drive, Suite R  
 Temecula, California 92591  
 Telephone: (951) 600-9271  
 COSTA MESA    TEMECULA    PALM DESERT    SAN DIEGO    SANTA CLARITA

**SITE PLAN**

Meridian Land Development Project  
 Casa Blanca Ranch  
 City of Yucaipa, California

DATE: Dec 2011

J.N.: 361-11

DWG BY: JC

SCALE: N/A

**Figure 2**





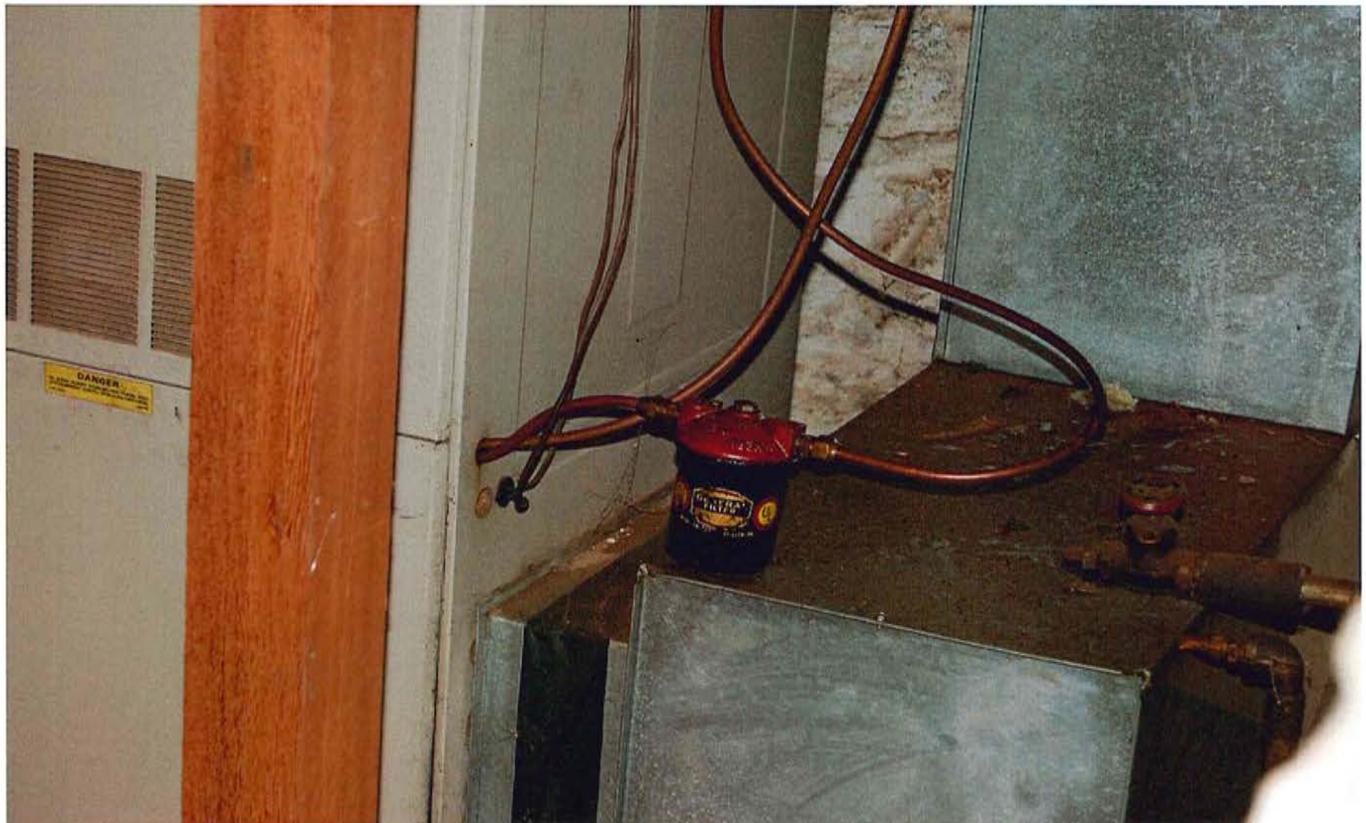
View of main house looking east



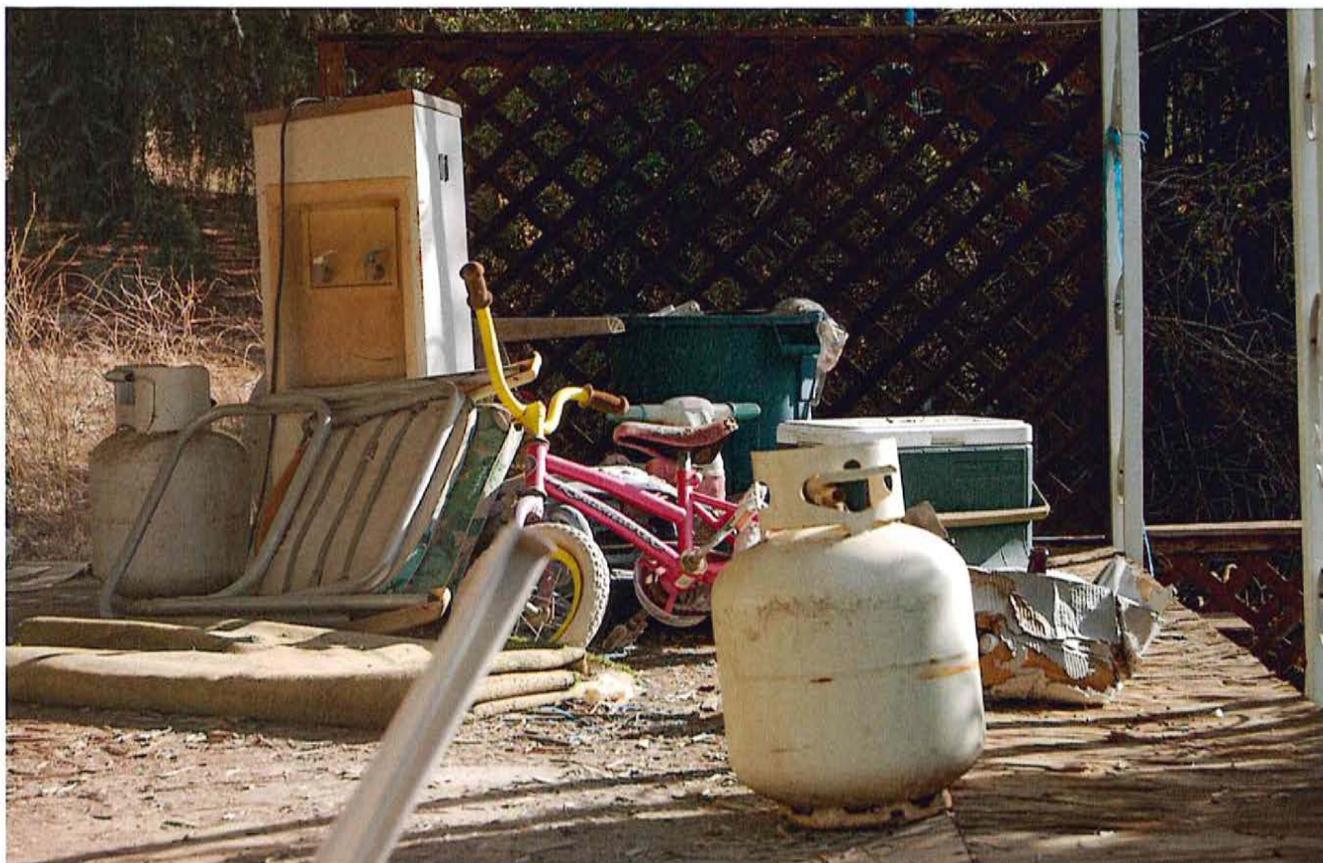
View of detached garage and mobile home



A/C unit and heating oil tank along south side of main residence



Furnace in cellar of main house



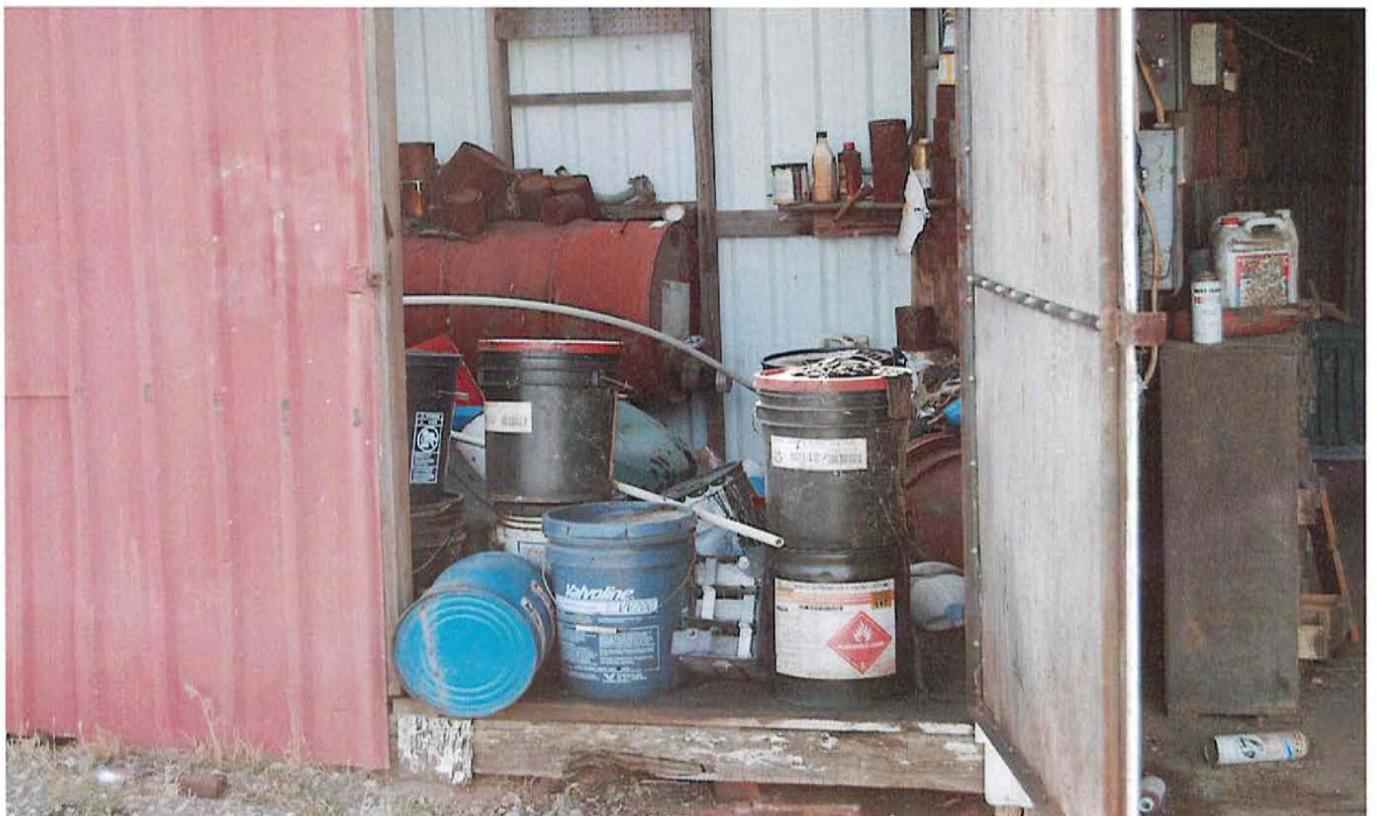
Propane tanks and household trash on mobile home back porch



Paint cans and other assorted items within detached garage



View of corrugated work shop with attached shed



Attached shed with racing fuel drums, oil and other assorted items



Wood burning heater in work shop



55-gallon drum located in work shop



Staining of concrete slab and rubber mat in workshop



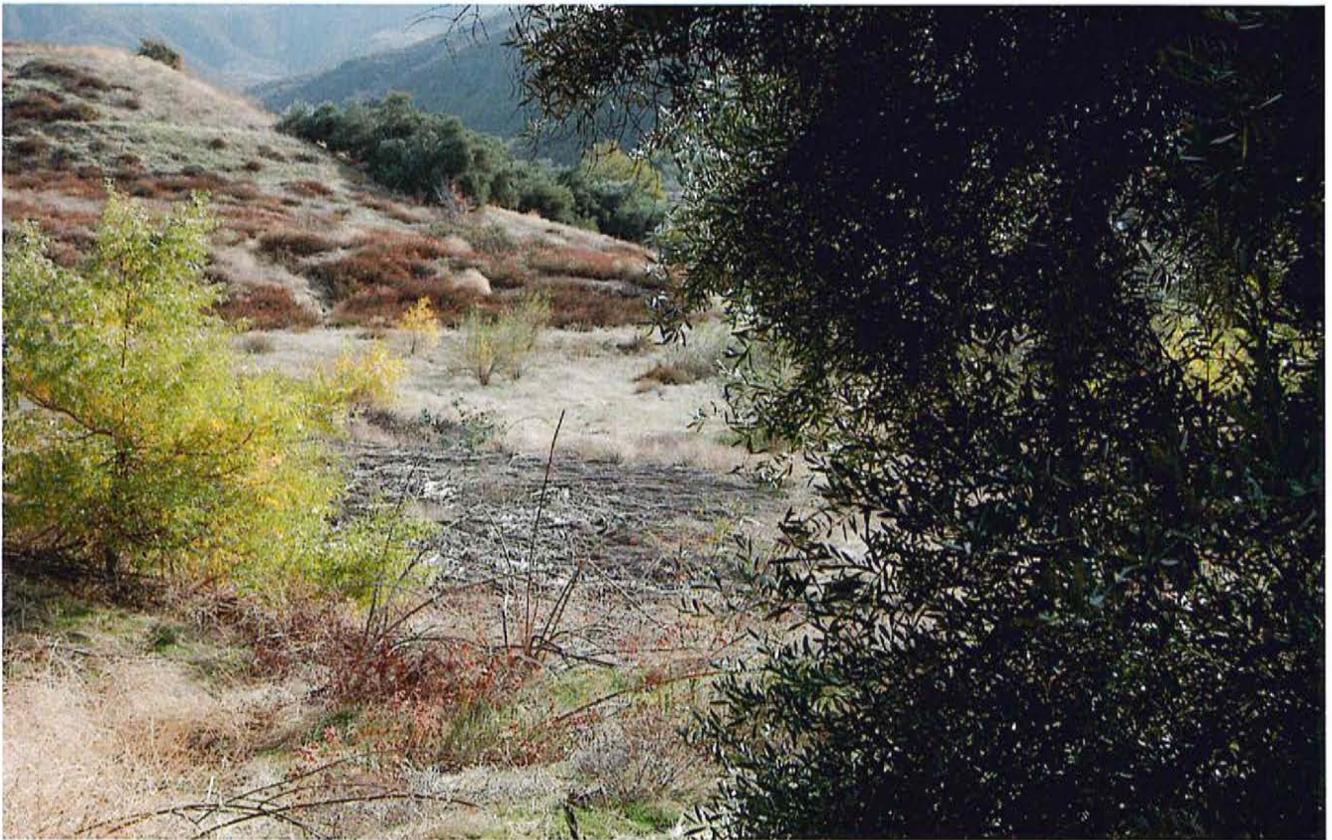
Metal air filter and Valvoline hydraulic oil bucket outside of work shop



Drain pipe extending from the back of the work shop



Pole-mounted transformers adjacent to the work shop and shed



Dry pond in orchard below work shop



Pipes to septic system extending from the back of the caretakers house



55-gallon drums in packing building



55-gallon drum, 5-gallon buckets and trask along northeast side of packing building



Air filter, 5-gallon metal bucket with unknown substance and stained soils along the northeast corner of the packing building



Old tire north of the packing building



Grove and small dry pond north of packing building



Trash pile in Wilson Creek flood plain



Chairs dumped in Wilson Creek flood plain



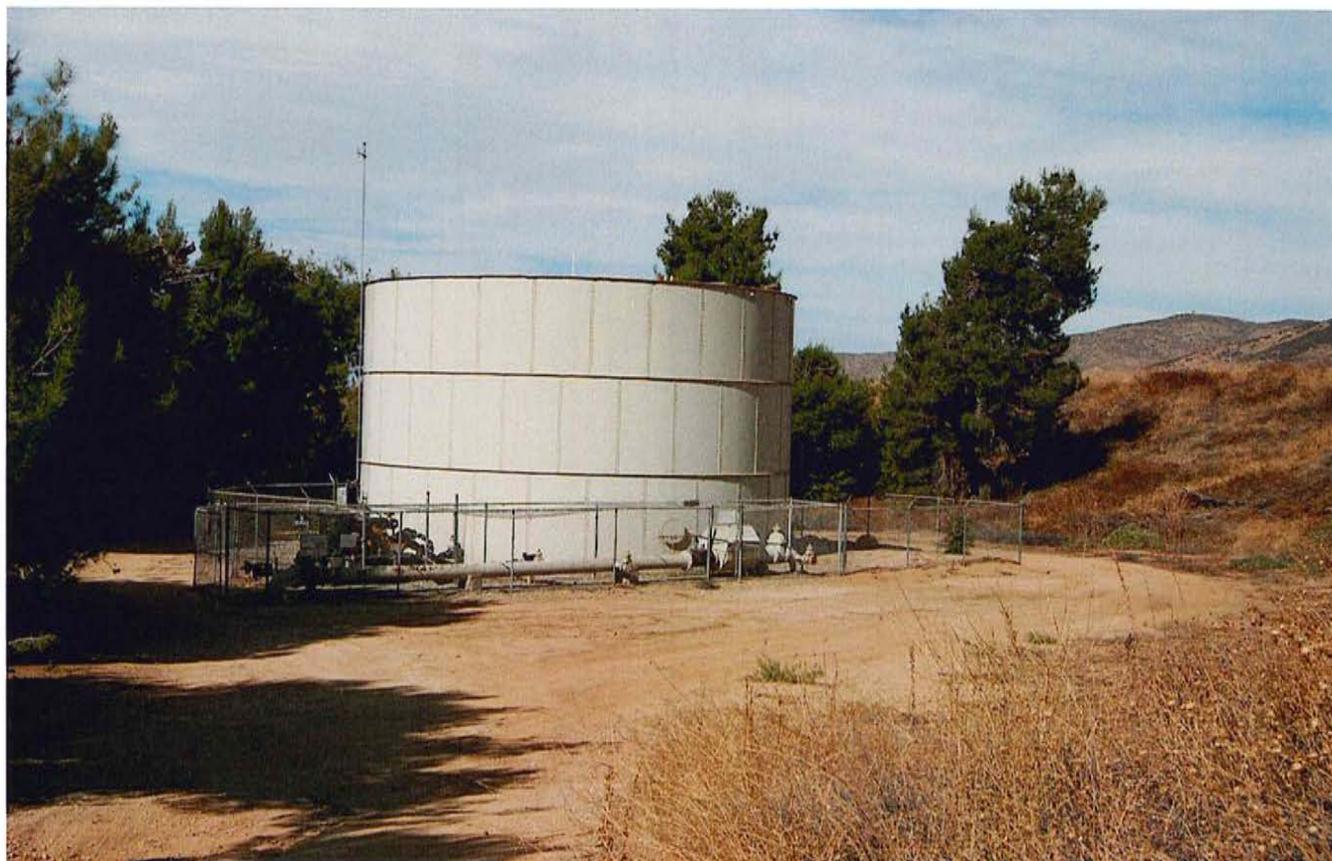
Agriculture field with Yucaipa Valley Water tank in background



Wooden shack (shootin blind) and truck camper in the northeast portion of Wilson Creek flood plain



Shotgun shells nest to wooden shack(shooting blind)



Yucaipa Valley Water District water tank located along south side of the property on leased land



Land between the YVWD water tank and Oak Glenn Road

# APPENDIX A

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## SITE INSPECTION CHECKLIST



**PETRA GEOTECHNICAL, INC.**

**Environmental Division**

3185-E Airway Avenue, Costa Mesa, CA 92626

\* Phone (714) 549-8921

\* Fax (714) 540-7572

**PHASE I ESA SITE INSPECTION CHECKLIST**

J.N. 361-11 Start: Time \_\_\_\_\_ Miles \_\_\_\_\_

Date: \_\_\_\_\_ Finish: Time \_\_\_\_\_ Miles \_\_\_\_\_

**1. Site Information**

Address: 36104 OAK GLEN ROAD, YUCAIPA, CA 92399

Parcel Size: 4-APN'S 0321-082-15 = 5.1-ACRES, 0321-101-02 = 80-ACRES,

Facility Size: 0321-101-12 = 80-ACRES, 0321-101-20 = 70.8-ACRES

Map Reference: \_\_\_\_\_

Owner: CASA BLANCA RANCH, LLC.

**2. Site Description**

Topographic Conditions: HILL TOPS W/ INCISED CANYONS

Obvious Geologic Features: \_\_\_\_\_

Estimated % of Site Covered by Buildings and Pavement: 0.005 (+) %

Ground Cover: AGRICULTURE FIELDS ON TOP, BRUSH & MATURE TREES IN CANYONS AND AROUND HOUSE

Type and Condition of Pavement: \_\_\_\_\_

Roads and Parking Facilities: GRAVEL & DIRT ROADS

Structures: HOUSE, GARAGE, MOBILE HOME, CONDO, REPAIR SHOP & PACKING BLDG.

Description of Obstructions: LOCKED FENCES, MOBILE HOME LOCKED

**3. Indications of Current Site Use(s)**

- Agriculture       Industrial       Commercial/Retail  
 Residential       Undeveloped       No indications of current use  
 Other: \_\_\_\_\_

**4. Indications of Previous Site Use(s)**

- Agriculture       Industrial       Commercial/Retail  
 Residential       Undeveloped       No indications of prior use  
 Other: \_\_\_\_\_

**PHASE I ESA SITE INSPECTION CHECKLIST**

PAGE NOT APPLICABLE

**5. Indications of Current Adjacent Land Use**

North: DEVELOPMENT AND OPEN VACANT LAND POSSIBLE AGRICULTURE

South: RESIDENTIAL

East: AGRICULTURAL LAND

West: RESIDENCES

**6. Indications of Previous Adjacent Land Use**

North: \_\_\_\_\_

South: \_\_\_\_\_

East: \_\_\_\_\_

West: \_\_\_\_\_

**7. Indications of Vicinity Adjacent Land Use**

North: \_\_\_\_\_

South: \_\_\_\_\_

East: \_\_\_\_\_

West: \_\_\_\_\_

**8. Potential Sensitive Receptors (Wells, Streams, Schools, etc.) and Location Relative to the Site**

MAIN DRAINAGE CHANNEL ALONG NORTH PROPERTY

WATER TANK ON SITE ADJACENT OAK GLEN ROAD  
POND EAST OF RESIDENCE AND NORTH OF OAK GLEN ROAD

**PHASE I ESA SITE INSPECTION CHECKLIST**

PAGE NOT APPLICABLE

9. Tanks/Containers (include tanks, drums, labeled and unlabeled containers) None

Approximate Capacity	Contents	Tank Composition	Location on Site
240	HEATING OIL	STEEL	SOUTH SIDE OF RESIDENCE
	PROPANE TANK	STEEL	ADJACENT MOBILE HOME
2 - 5gal	PROPANE TANK	STEEL	BACK PORCH OF MOBILE HOME
APPROX 7 - 5gal	RACING FUEL	STEEL	REPAIR SHOP SHED
1 - LARGE (50gal)	GAS (MOBIL)	STEEL	REPAIR SHOP SHED
7 - 5gal buckets	HYDRAULIC OIL	PLASTIC	REPAIR SHOP SHED
1 - 55gal	UNKNOWN	METAL	REPAIR SHOP

10. Indications of USTs (fill pipes, vents, etc.)  Yes  No

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11. Indications of Other Underground Structures (e.g. clarifiers, wells, dry wells, septic systems, etc.)  Yes  No

SEPTIC SYSTEMS FOR THE HOUSE AND COODO

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12. Indications of PCB-containing equipment or potential PCBs-containing equipment ( e.g. electrical equipment, hydraulic equipment, transformers, etc.)  Yes  No

2-POLE MOUNTED TRANSFORMERS NEXT TO  
REPAIR SHOP, HYDRAULIC OIL CONTAINERS IN REPAIR SHOP SHED

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**PHASE I ESA SITE INSPECTION CHECKLIST**

PAGE NOT APPLICABLE

13. Surface Staining (appearance, location, approximate size)  Yes  No

DARK  
STAINING OF CONCRETE SLAB IN GARAGE; STAINING OF WOOD FLOOR  
AND SOIL OF SHED ATTACHED TO REPAIR SHOP; DARK STAINING OF  
CONCRETE SLAB IN REPAIR SHOP.

14. Pits, Ponds, Lagoons, Pools of Liquid (description/location)  Yes  No

LARGE POND EAST OF RESIDENCE AND NORTH OF  
OAK GLEN ROAD

15. Odors  Yes  No

FUEL ODOR AROUND REPAIR SHOP AND ATTACHED SHED

16. Stressed Vegetation (from something other than insufficient water)  Yes  No

17. Solid Waste/Refuse/Evidence of Dumping (description, location, approximate amount)  Yes  No

TIRES, STEEL FILTER AND SPA BY REPAIR SHOP  
TIRES AND OLD TRAILER NORTH OF PACKING BLDG,  
TIRES, CAMPER SHELL, CHAIRS, WOOD, METAL IN NORTHERN  
DRAINAGE CHANNEL.

**PHASE I ESA SITE INSPECTION CHECKLIST**

PAGE NOT APPLICABLE

18. Evidence of Hazardous Materials, Hazardous Waste, or Petroleum Products  Yes  No  
LARGE STEEL DRUM WITH MOBIL STICKER; 5-gal STEEL DRUMS  
OF FLAMABLE RACING GASOLINE; 5-gal PLASTIC DRUMS OF  
VALVOLINE HYDRAULIC OIL; 1-BROKEN BATTERY; REPAIR SHOP AND SHED

19. Public Services

- a. Potable Water Supply: \_\_\_\_\_  
b. Sewage Disposal System: \_\_\_\_\_  
c. Storm Water Runoff: \_\_\_\_\_  
d. Waste Water: \_\_\_\_\_

20. Site Observations

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

21. Site Sketch

**PHASE I ESA SITE INSPECTION CHECKLIST**

PAGE NOT APPLICABLE

22. Facility Information

a. Number and Size of Structures

6 STRUCTURES

b. Site Housekeeping

Good

Average

Poor

Provide Description \_\_\_\_\_

c. Age of Structures if Known

HOUSE - 1800'S; OTHER STRUCTURES UNKNOWN

d. Condition of Structures

HOUSE - FAIR

ALL OTHER BLDG'S - POOR

e. Description of Building Materials

Interior: HOUSE - DRY WALL; GARAGE - WOOD; MOBILE - INACCESSIBLE

CONDO - DRY WALL; REPAIR SHOP & PACKING BLDG. - METAL & WOOD

Exterior: HOUSE - BRICK & WOOD; GARAGE - WOOD; MOBILE - WOOD

CONDO, REPAIR SHOP & PACKING BLDG - CORRUGATED METAL

f. Provide Comment on Suspected Asbestos-Containing Building Materials and/or Lead-Based Paint

DUE TO AGE OF BUILDINGS BOTH ARE SUSPECTED.

g. Provide Description of Any Noted Stains or Corrosion

STAINING OF GARAGE CONCRETE SLAB; STAINING OF REPAIR SHOP

CONCRETE SLAB; STAINING OF REPAIR SHOP SHED WOOD FLOOR AND

SURROUNDING SOIL.

**PHASE I ESA SITE INSPECTION CHECKLIST**

PAGE NOT APPLICABLE

h. Current Use and Occupancy (attach rent role/tenant list if available)

WACQUOT - FARM

i. Inaccessible Areas

None

MOBILE HOME

j. Heating and Cooling Systems and System Fuel Sources

None

HOUSE - A/C & HEATING OIL TANK AND FURNACE; GARAGE - NONE  
MOBILE HOME - PROPANE TANK; REPAIR SHOP - WOOD BURNING  
CONDO - WOOD BURNING STOVE (USED); PACKING BLDG - NONE

k. Drains, Sumps, Clarifiers, Oil Traps, Grease Pits (description, location and note any signs of staining and/or corrosion) None

OIL AND OR GREASE PIT IN WORKSHOP

l. Hydraulic Equipment (lifts, elevators, etc.) (description, location and note any signs of leakage and stored fluids) None

m. Radioactive Sources (description/location/permits) None

n. Use of Chemicals/Raw Materials/Hazardous Materials, Petroleum Products None

RACING FUEL, HYDRAULIC OIL,



## APPENDIX B

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### AGENCY SEARCH RESULTS



- CDEC CIMIS WDL IEP IWRIS All Data Topics...
- Water Data Library Home
  - Groundwater Level Data
  - Water Quality Data
  - Continuous Data
  - Historical Information
  - Contact Information

## Water Data Library

Use the map below to locate monitoring stations. You can find an area of interest if you zoom and pan the map. Quickly find an area searching for named features on a map such as the name of a city, park, landmark, lake, water feature, or zip code within California. Once at the area of interest, select the desired Site Type and click the "Refresh Map" button to show monitoring stations in the area. Additional searches by data type are possible by clicking the links on the left. For help on these and other ways to find your data [click here](#).

### WDL STATION IMAP

Specific area, enter the placename or zip code into the text box below then, click the "Search" button.

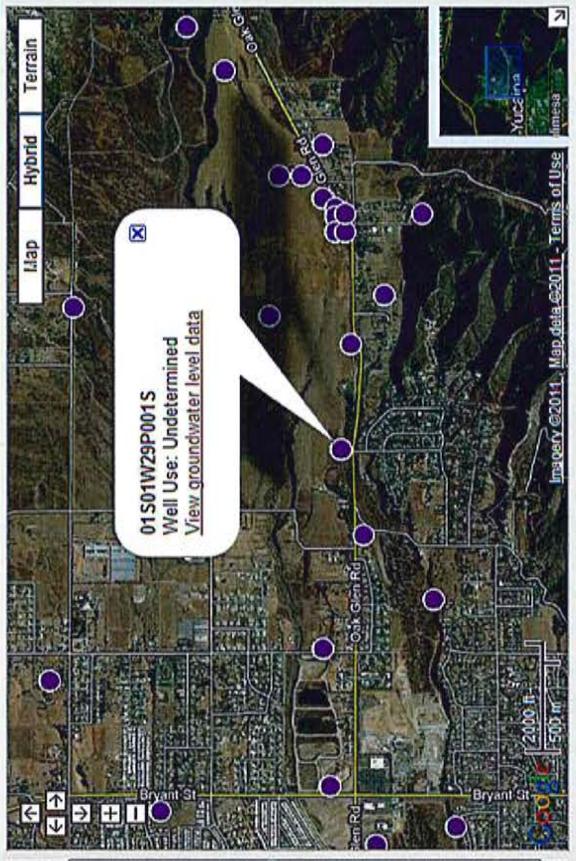


#### Site Type

Select the desired site type using the checkboxes, then click the "Refresh" button.

- Groundwater Level
- Water Quality
- Continuous Data

- Multi-parameter site
- Cluster, showing number of stations

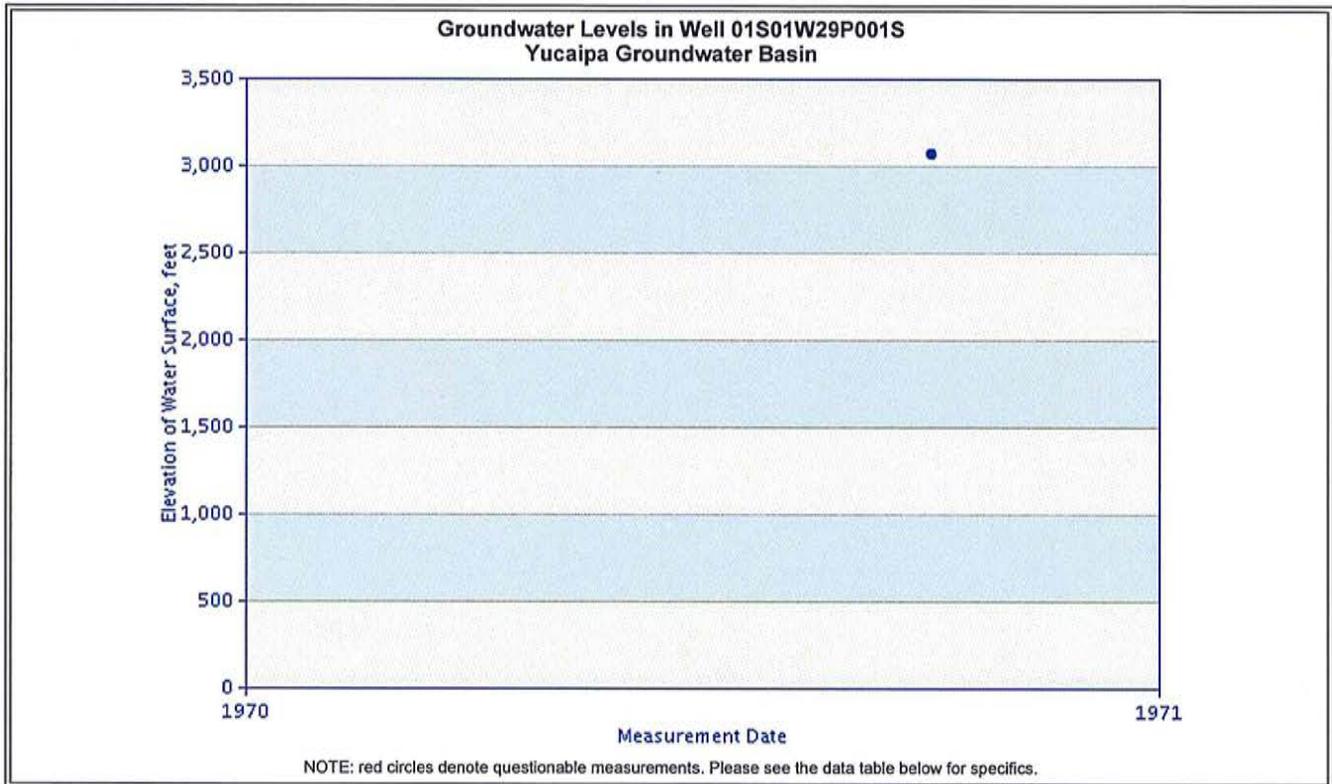


Map Center:	34.051806, -117.011948	Mouse Lat/Lon:	34.037724, -116.992464
Map SW:	34.037511, -117.037783	Mouse Px:	734091, 1674962
Map NE:	34.066099, -116.986113	Mouse Tile:	2867, 6542
Map Zoom:	14	Mouse Click:	34.050810, -117.011948

Marcelo Montagna©2008 - <http://maps.forum.ny>

## Groundwater Level Data for Well 01S01W29P001S

Your selection returned a total of 1 records. Wells in the Department of Water Resources monitoring network are identified by a State Well Number, which is based on the Public Land Grid System. The table headings and records contain several codes and abbreviations. Press the **New Search** or **Nearby Search** buttons or at the bottom of the page to begin a new data retrieval. Data for this well can also be downloaded in MS Excel or text delimited format.



Groundwater Level Readings									
Meas. Date	R.P. Elev.	G.S. Elev.	RPWS	WSE	GSWS	QM Code	NM Code	Agency	Comment
10-01-1970	3108.0	3108.0	35.0	3073.0	35.0			5000	

Well Coordinates					
Projection	Datum	Easting	Northing	Units	Zone
UTM	NAD27	498841	3767549	metres	11
LL	NAD27	117.0117	34.0486	decimal degrees	
LL	NAD83	117.0126	34.0486	decimal degrees	

**Well Use:** Undetermined

**For more information contact:**  
 Department of Water Resources, Southern District  
 Groundwater Section  
 770 Fairmont Avenue  
 Glendale, CA 91203

Phone: 818-500-1645, ext. 233  
 Fax: 818-543-4604

Search for wells within 0.5 mile radius.

CDEC CIMIS WDL IEP IWRIS All Data Topics...

- Water Data Library Home
- Groundwater Level Data
- Water Quality Data
- Continuous Data
- Historical Information
- Contact Information

### Water Data Library

Use the map below to locate monitoring stations. You can find an area of interest if you zoom and pan the map. Quickly find an area searching for named features on a map such as the name of a city, park, landmark, lake, water feature, or zip code within California. Once at the area of interest, select the desired Site Type and click the "Refresh Map" button to show monitoring stations in the area. Additional searches by data type are possible by clicking the links on the left. For help on these and other ways to find your data [click here](#).

#### WDL STATION MAP

Specific area, enter the placename or zip code into the text box below then, click the "Search" button.

Search

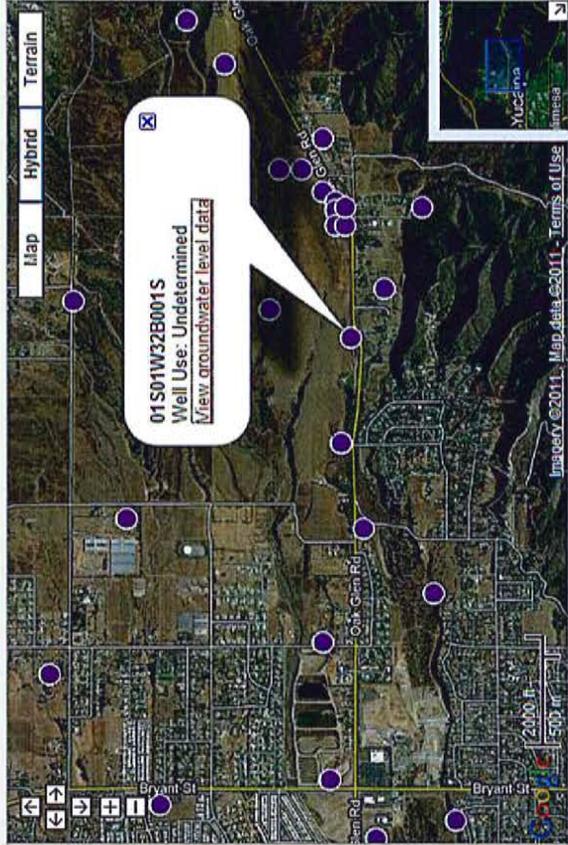
##### Site Type

Select the desired site type using the checkboxes, then click the "Refresh" button.

- Groundwater Level
- Water Quality
- Continuous Data

Refresh Map

- Multi-parameter site
- Cluster, showing number of stations

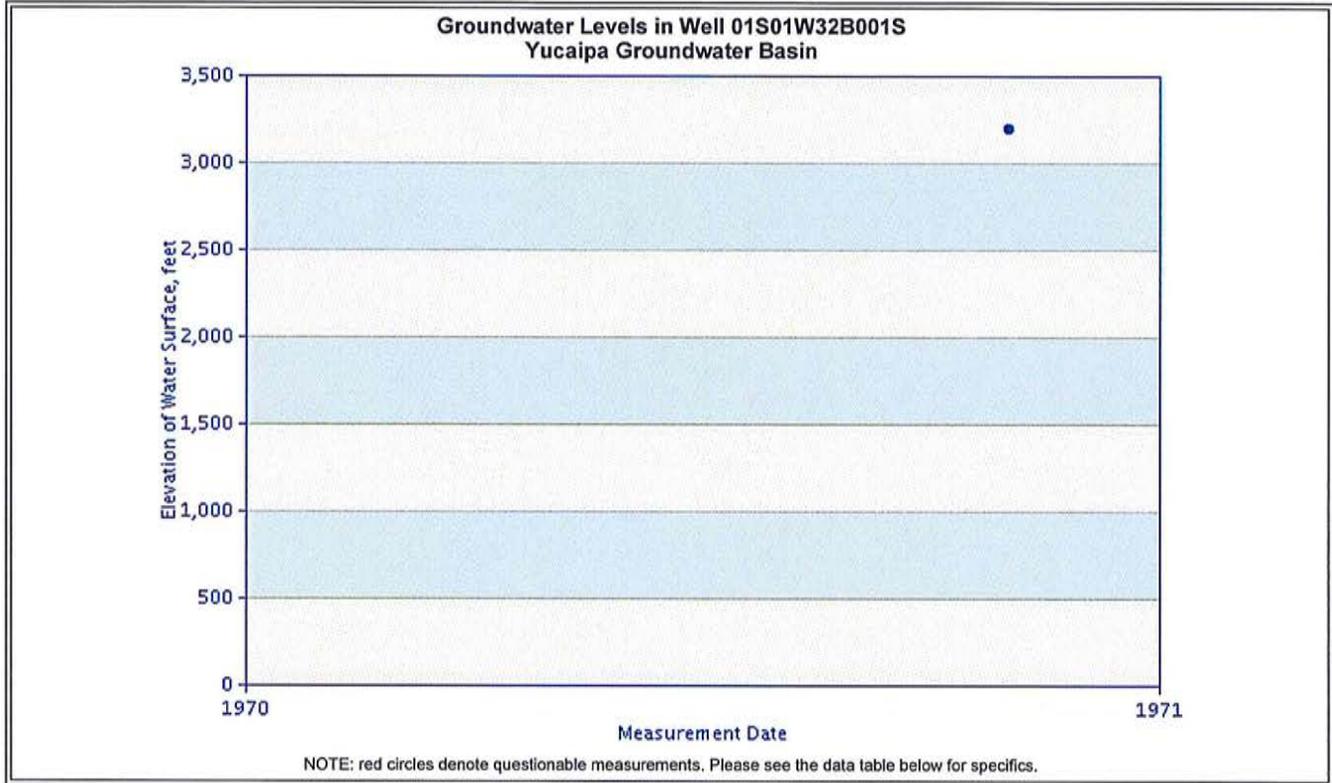


Map Center:	34.051806, -117.011948	Mouse Laction:	34.056144, -117.015295
Map SW:	34.037511, -117.037793	Mouse Px:	73525, 1674703
Map NE:	34.066099, -116.986113	Mouse Tile:	2866, 6541
Map Zoom:	14	Mouse Click:	34.050810, -117.011948

Marcelo Montagna©2008 - <http://maps.forum.nl>

## Groundwater Level Data for Well 01S01W32B001S

Your selection returned a total of 1 records. Wells in the Department of Water Resources monitoring network are identified by a [State Well Number](#), which is based on the Public Land Grid System. The table headings and records contain several [codes and abbreviations](#). Press the **New Search** or **Nearby Search** buttons or at the bottom of the page to begin a new data retrieval. Data for this well can also be downloaded in [MS Excel](#) or [text delimited format](#).



Groundwater Level Readings									
Meas. Date	R.P. Elev.	G.S. Elev.	RPWS	WSE	GSWS	QM Code	NM Code	Agency	Comment
11-01-1970	3240.0	3240.0	40.0	3200.0	40.0			5000	

Well Coordinates					
Projection	Datum	Easting	Northing	Units	Zone
UTM	NAD27	499430	3767487	metres	11
LL	NAD27	117.0053	34.0481	decimal degrees	
LL	NAD83	117.0062	34.0481	decimal degrees	

**Well Use:** Undetermined

**For more information contact:**  
 Department of Water Resources, Southern District  
 Groundwater Section  
 770 Fairmont Avenue  
 Glendale, CA 91203

Phone: 818-500-1645, ext. 233  
 Fax: 818-543-4604

Search for wells within 0.5 mile radius.

- Water Data Library Home
- Groundwater Level Data
- Water Quality Data
- Continuous Data
- Historical Information
- Contact Information

## Water Data Library

Use the map below to locate monitoring stations. You can find an area of interest if you zoom and pan the map. Quickly find an area searching for named features on a map such as the name of a city, park, landmark, lake, water feature, or zip code within California. Once at the area of interest, select the desired Site Type and click the "Refresh Map" button to show monitoring stations in the area. Additional searches by data type are possible by clicking the links on the left. For help on these and other ways to find your data [click here](#).

### WDL STATION MAP

Specific area, enter the placename or zip code into the text box below then, click the "Search" button.

Search

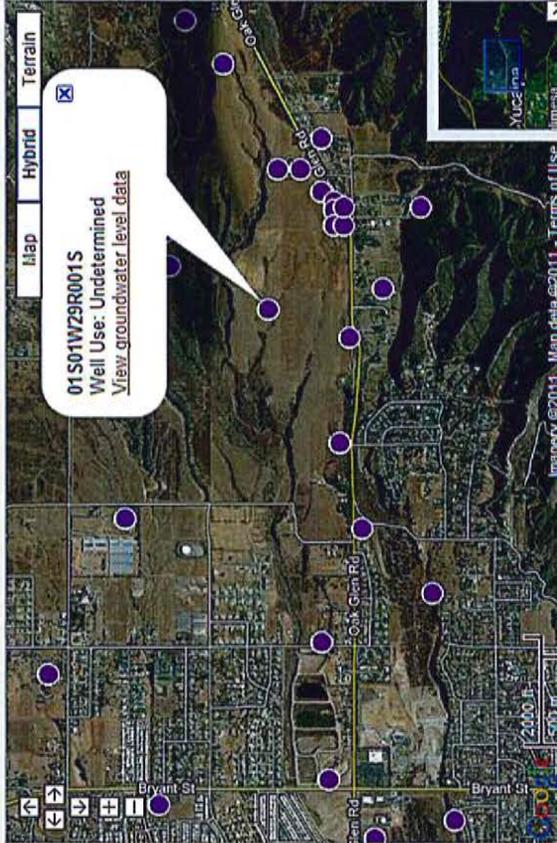
#### Site Type

Select the desired site type using the checkboxes, then click the "Refresh" button.

- Groundwater Level
- Water Quality
- Continuous Data

Refresh Map

- Multi-parameter site
- Cluster, showing number of stations

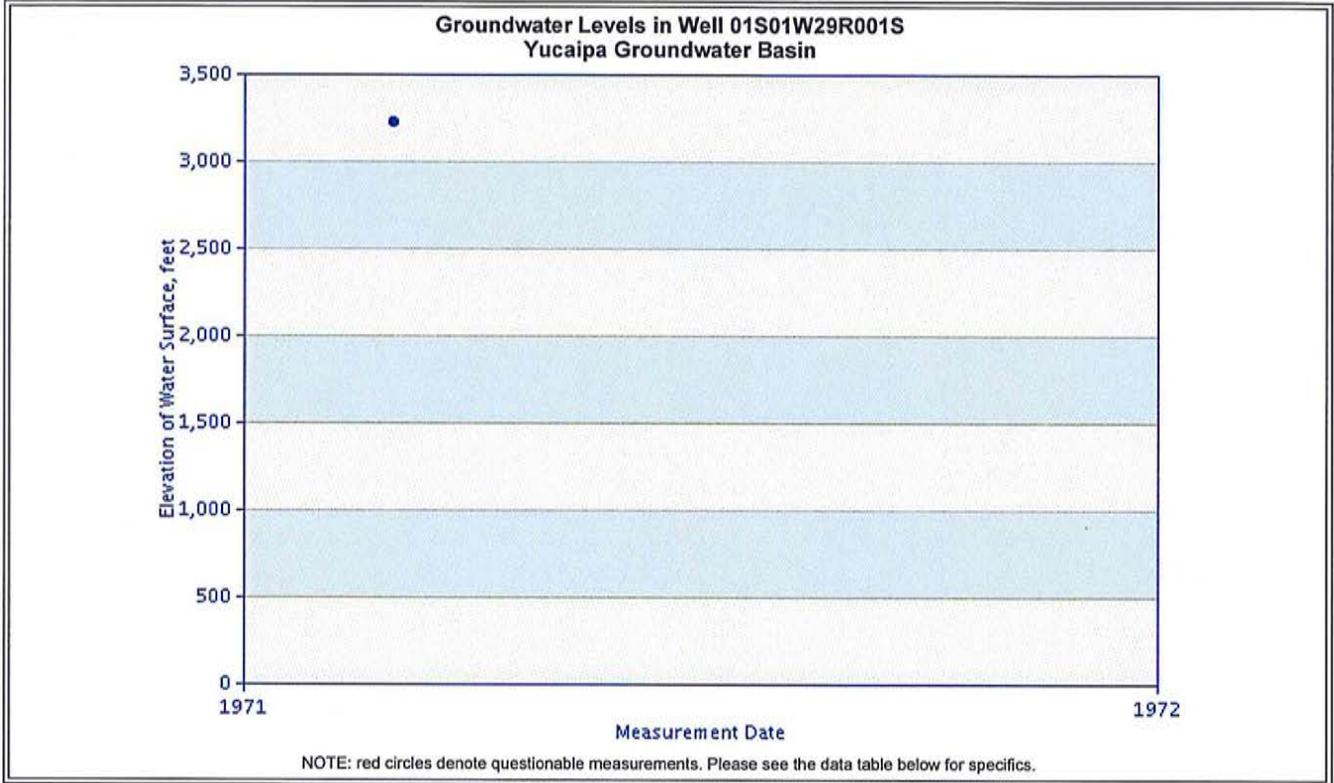


Map Center:	34.051806, -117.011948	Mouse LatLon:	34.052873, -117.004910
Map SW:	34.037511, -117.037783	Mouse E:	733946, 1674749
Map NE:	34.066099, -116.986113	Mouse Tilt:	2866, 6541
Map Zoom:	14	Mouse Click:	34.052517, -117.004910

Marcelo Montagna©2008 - <http://maps.fenium.nl/>

## Groundwater Level Data for Well 01S01W29R001S

Your selection returned a total of 1 records. Wells in the Department of Water Resources monitoring network are identified by a State Well Number, which is based on the Public Land Grid System. The table headings and records contain several codes and abbreviations. Press the **New Search** or **Nearby Search** buttons or at the bottom of the page to begin a new data retrieval. Data for this well can also be downloaded in [MS Excel](#) or [text delimited format](#).



Groundwater Level Readings									
Meas. Date	R.P. Elev.	G.S. Elev.	RPWS	WSE	GSWS	QM Code	NM Code	Agency	Comment
03-01-1971	3288.0	3288.0	62.0	3226.0	62.0			5000	

Well Coordinates					
Projection	Datum	Easting	Northing	Units	Zone
UTM	NAD27	499584	3767949	metres	11
LL	NAD27	117.0036	34.0522	decimal degrees	
LL	NAD83	117.0045	34.0522	decimal degrees	

**Well Use:** Undetermined

**For more information contact:**  
 Department of Water Resources, Southern District  
 Groundwater Section  
 770 Fairmont Avenue  
 Glendale, CA 91203

Phone: 818-500-1645, ext. 233  
 Fax: 818-543-4604

Search for wells within 0.5 · mile radius.

W1-7



REGIONAL WILDCAT MAP

SHOWING WELLS NOT ON DIVISION FIELD MAPS

State of California, Department of Conservation  
Division of Oil, Gas, and Geothermal Resources  
NOTE: Wells with directional concepts on file with the division are indicated with a short line under the well symbol.  
Current well status should be confirmed at the appropriate division office.  
The Department of Conservation makes no warranty as to the validity of the property or oilfield records.

**LEGEND**

◊ Drilling	◊ Well site	◊ Abandoned - combined
◊ Drilling - site	◊ Gas injection	◊ Gas injection
◊ Project and abandoned - dry hole	◊ Gas specific oil zone	◊ Project & abandoned - oil & gas
◊ Completed - oil	◊ Water storage	◊ Gas storage
◊ Idle - oil	◊ Abandonment	◊ Gas - combined gas storage
◊ Project and abandoned - oil	◊ Project & abandoned - oil & gas	◊ Abandonment - oil - combined to water disposal
◊ Completed - gas	◊ Gas storage	◊ Oil - combined to air storage
◊ Idle - gas	◊ Abandonment	◊ Project and abandoned - waterflood
◊ Project and abandoned - gas	◊ Gas - combined gas storage	◊ Project and abandoned - oil & waterflood
◊ Completed - water disposal	◊ Abandonment - oil - combined to water disposal	◊ Idle - shut-in completion - producing oil & disposed
◊ Completed - waterflood	◊ Oil - combined to air storage	
◊ Idle - waterflood	◊ Project and abandoned - waterflood	
◊ Oil - combined to water disposal	◊ Project and abandoned - oil & waterflood	
◊ Completed - gas injection	◊ Idle - shut-in completion - producing oil & disposed	

Field map boundary      Field boundary

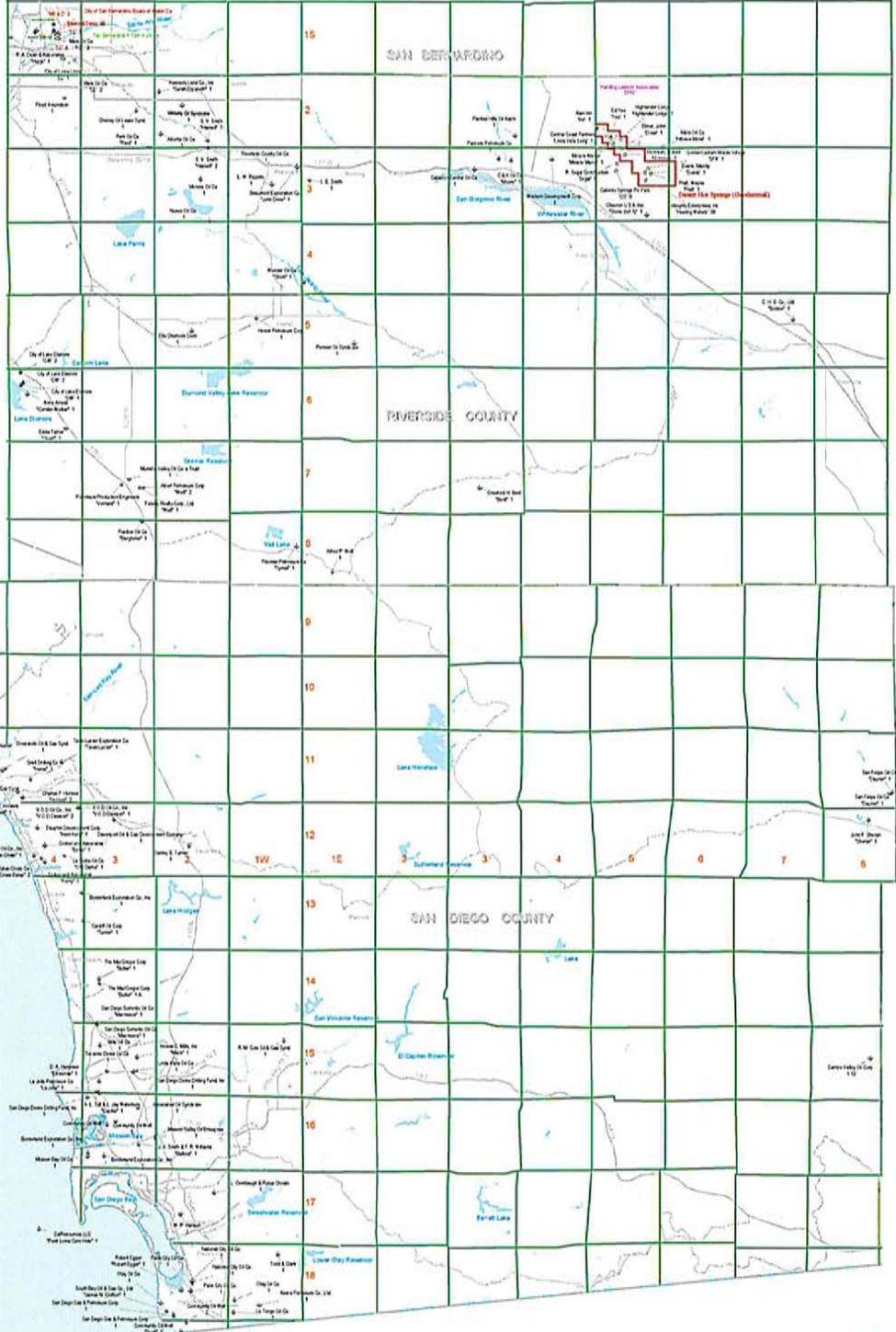
COUNTIES: RIVERSIDE AND SAN DIEGO

DRAFT



See Reference Map K

W1-7



See Reference Map K

W1-8

W1-7

W1-7



# State of California Department of Conservation

Welcome to DOMS

Main Find List Help

Map Layers Well Options Load Wells

Streets Topo Imagery



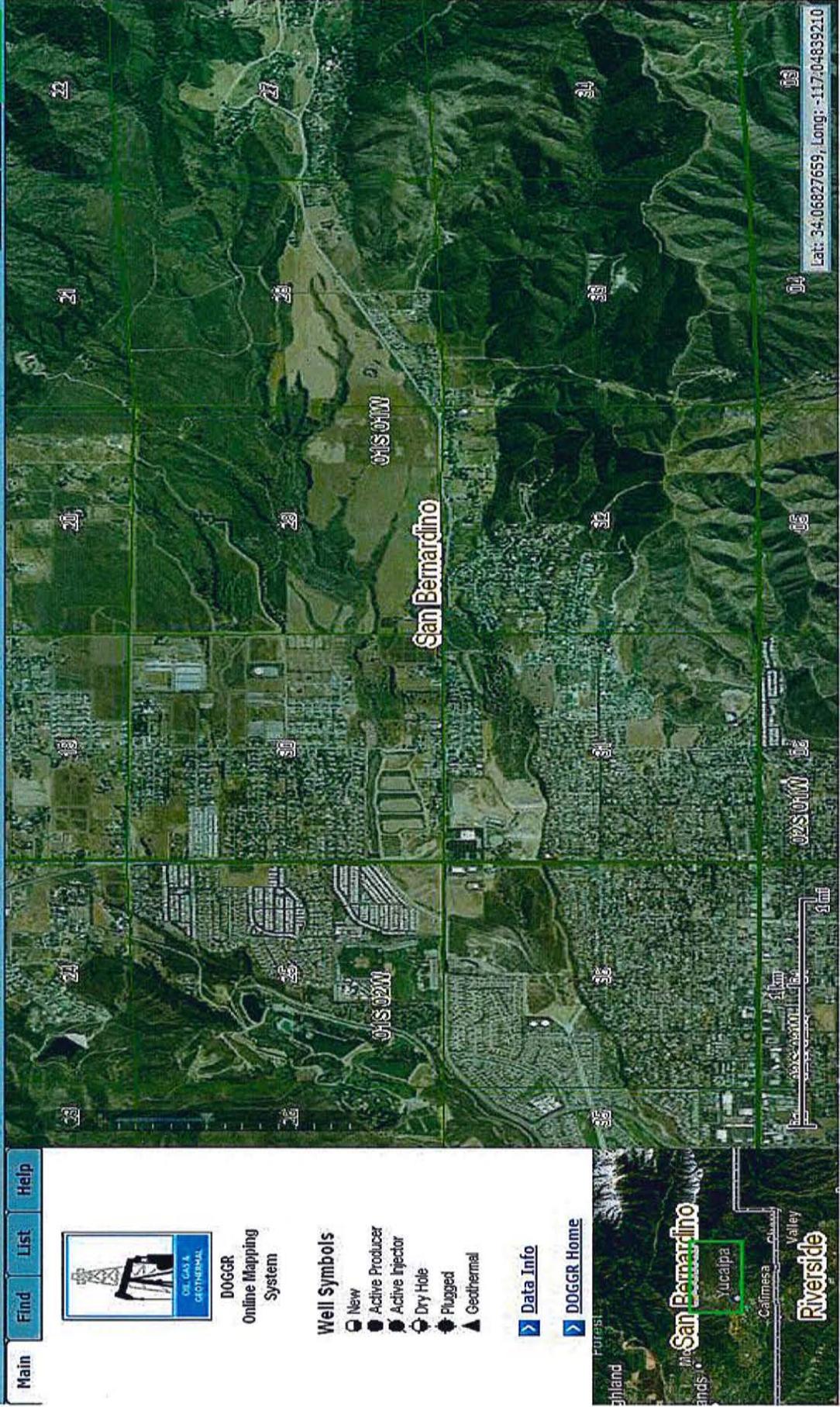
DOGGR  
Online Mapping  
System

### Well Symbols

- New
- Active Producer
- Active Injector
- Dry Hole
- Plugged
- Geothermal

[Data Info](#)

[DOGGR Home](#)





# State of California Department of Conservation

Welcome to DOMS

Main Find List Help

Map Layers Well Options Load Wells

Streets Topo Imagery



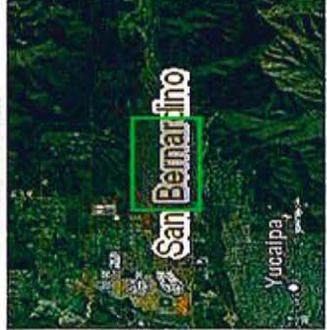
DOGGR  
Online Mapping  
System

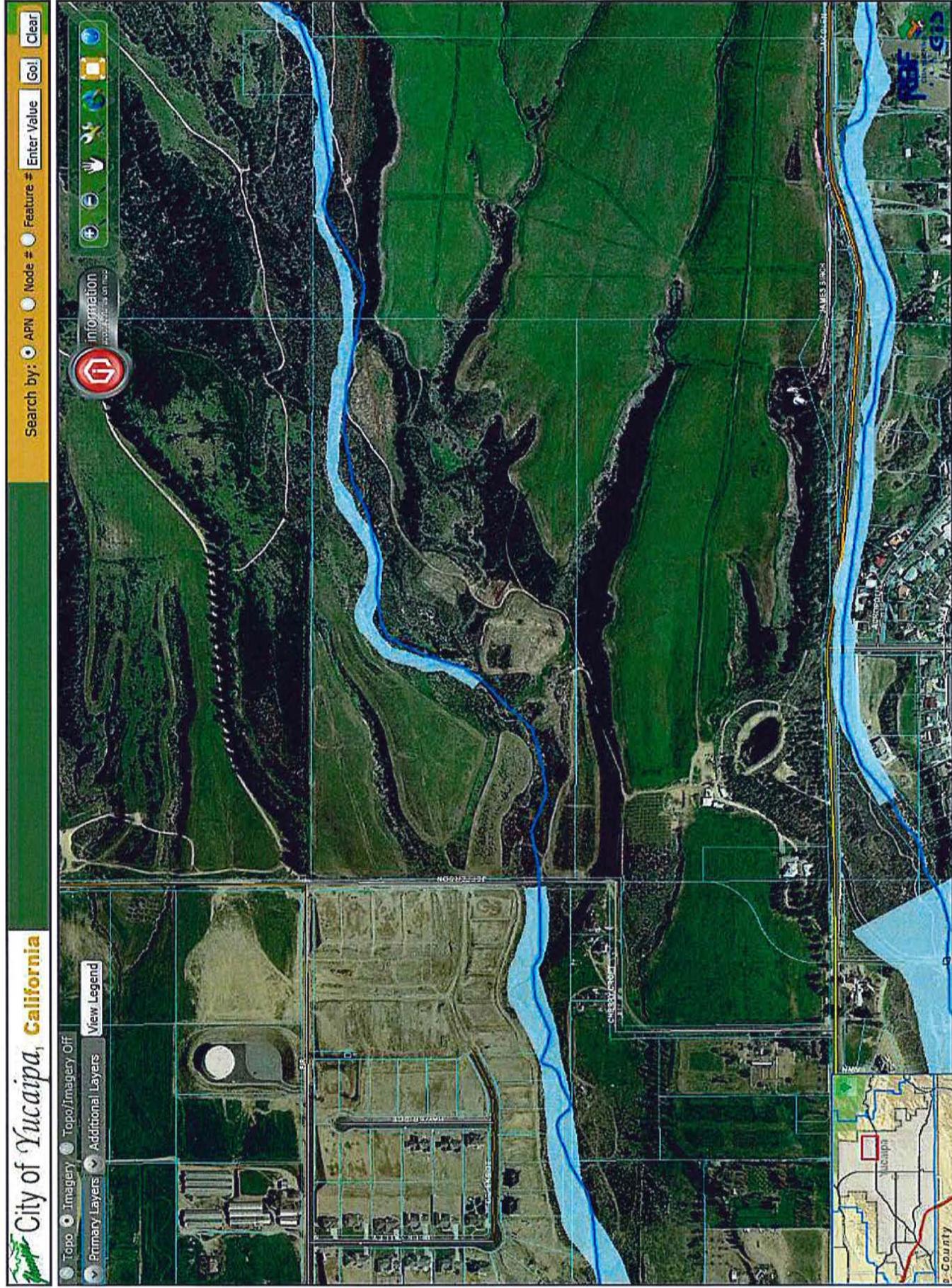
### Well Symbols

- New
- Active Producer
- Active Injector
- Dry Hole
- Plugged
- Geothermal

[Data Info](#)

[DOGGR Home](#)





# LEGEND

Existing Water Drainage	Proposed Water Drainage	District Layers	Land Use Districts	Other Layers
<ul style="list-style-type: none"> <li>Arched Conduit</li> <li>Box</li> <li>Channel</li> <li>Culvert</li> <li>Hidden</li> <li>Levee</li> <li>Pipe</li> <li>Rectangular Channel</li> <li>Transillon</li> <li>Trapezoid</li> <li>Unknown</li> <li>Water Course</li> <li>Existing Flood Control Basin</li> </ul>	<ul style="list-style-type: none"> <li>Box</li> <li>Culvert</li> <li>Rectangular</li> <li>Storm Drain</li> <li>Trapezoidal</li> <li>Proposed Flood Control Basins</li> <li>Hydrologic Node Id</li> </ul>	<ul style="list-style-type: none"> <li>Uptown Specific Plan</li> <li>Freeway Specific Plan</li> <li>Custom Homes</li> <li>Mobile Homes</li> <li>Fire Review</li> <li><b>Alquist Priolo</b></li> <li>Earthquake Fault Zones</li> </ul>	<ul style="list-style-type: none"> <li>BP - Business Park</li> <li>CG - General Commercial</li> <li>CN - Neighborhood Commercial</li> <li>CR - Commercial Regional</li> <li>CS - Service Commercial</li> <li>Freeway</li> <li>FW - Floodway</li> <li>IC - Community Industrial</li> <li>IN - Institutional</li> <li>OS - Open Space</li> <li>PD - Planned Development</li> <li>PUB - Public Facility</li> <li>R-1 - Residential</li> <li>R-2 - Residential</li> </ul>	<ul style="list-style-type: none"> <li>R-24 - Residential</li> <li>R-4 - Residential</li> <li>R-8 - Residential</li> <li>RL-1 - Rural Living</li> <li>RL-10 - Rural Living</li> <li>RL-2.5 - Rural Living</li> <li>RL-2.5-AP - Rural Living</li> <li>RL-20 - Rural Living</li> <li>RL-40 - Rural Living</li> <li>RL-5 - Rural Living</li> <li>RM-10M - Multiple Residential</li> <li>RM-72C - Multiple Residential</li> <li>RS-10M - Single Residential</li> <li>RS-20M - Single Residential</li> <li>RS-72C - Single Residential</li> </ul>
	<ul style="list-style-type: none"> <li>FEMA Flood Zones</li> <li>FEMA 500yr Flood Plain</li> <li>FEMA 100yr Flood Plain</li> <li>Floodway</li> <li>Outside of Flood Zones</li> <li>FEMA BFE</li> </ul>	<ul style="list-style-type: none"> <li>Moderate to High/ Mapped, Existing Landslide</li> <li>Moderate to High</li> <li>Low to Moderate/ Mapped Existing Landslide</li> <li>Low to moderate</li> </ul>		
				<ul style="list-style-type: none"> <li>Minor Roads</li> <li>Minor Roads with As-Built</li> <li>Major Roads</li> <li>Major Roads with As-Built</li> <li>Highway</li> <li>Parcels</li> <li>Yucaipa City Limits</li> <li>County Boundary</li> </ul>





# APPENDIX C

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## EDR HISTORICAL REPORTS



**Casa Blanca Ranch**  
36104 Oak Glen Road  
Yucaipa, CA 92399

Inquiry Number: 03199789.2r  
November 08, 2011

## The EDR Radius Map™ Report with GeoCheck®



440 Wheelers Farms Road  
Milford, CT 06461  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## EXECUTIVE SUMMARY

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

### TARGET PROPERTY INFORMATION

#### ADDRESS

36104 OAK GLEN ROAD  
YUCAIPA, CA 92399

#### COORDINATES

Latitude (North): 34.049200 - 34° 2' 57.1"  
Longitude (West): 117.017000 - 117° 1' 1.2"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 498431.0  
UTM Y (Meters): 3767416.8  
Elevation: 3085 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 34117-A1 YUCAIPA, CA  
Most Recent Revision: 1988  
  
East Map: 34116-A8 FOREST FALLS, CA  
Most Recent Revision: 1988

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2009, 2010  
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 CERCLIS NFRAP site List***

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

### ***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators  
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent NPL***

RESPONSE..... State Response Sites

### ***State- and tribal - equivalent CERCLIS***

ENVIROSTOR..... EnviroStor Database

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

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

### ***State and tribal leaking storage tank lists***

LUST..... Geotracker's Leaking Underground Fuel Tank Report  
SLIC..... Statewide SLIC Cases

## EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### **State and tribal registered storage tank lists**

UST..... Active UST Facilities  
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**

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

### **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  
US HIST CDL..... National Clandestine Laboratory Register

#### **Local Lists of Registered Storage Tanks**

CA FID UST..... Facility Inventory Database  
HIST UST..... Hazardous Substance Storage Container Database  
SWEEPS UST..... SWEEPS UST Listing

#### **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

## EXECUTIVE SUMMARY

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

### ***Other Ascertainable Records***

RCRA-NonGen.....	RCRA - Non Generators
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
HIST CORTESE.....	Hazardous Waste & Substance Site List
Notify 65.....	Proposition 65 Records
DRYCLEANERS.....	Cleaner Facilities
WIP.....	Well Investigation Program Case List
ENF.....	Enforcement Action Listing
San Bern. Co. Permit.....	Hazardous Material Permits
HAZNET.....	Facility and Manifest Data
EML.....	Emissions Inventory Data
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
FINANCIAL ASSURANCE.....	Financial Assurance Information Listing
HWP.....	EnviroStor Permitted Facilities 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
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
HWT.....	Registered Hazardous Waste Transporter Database

### **EDR PROPRIETARY RECORDS**

#### ***EDR Proprietary Records***

Manufactured Gas Plants.....	EDR Proprietary Manufactured Gas Plants
------------------------------	---

## EXECUTIVE SUMMARY

EDR Historical Auto Stations.. EDR Proprietary Historic Gas Stations  
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

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

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

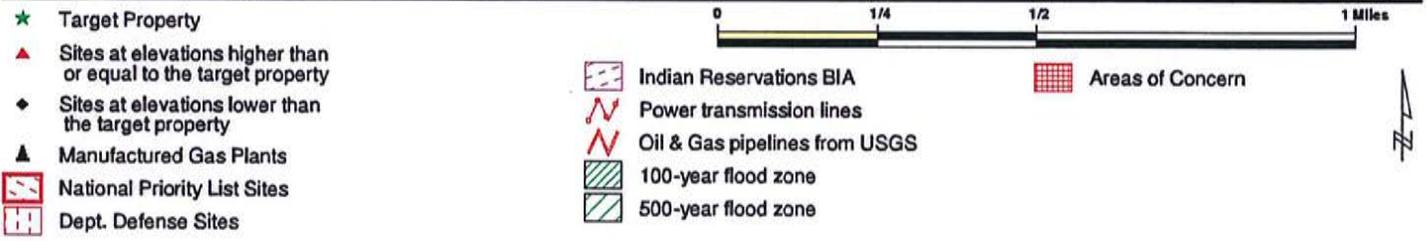
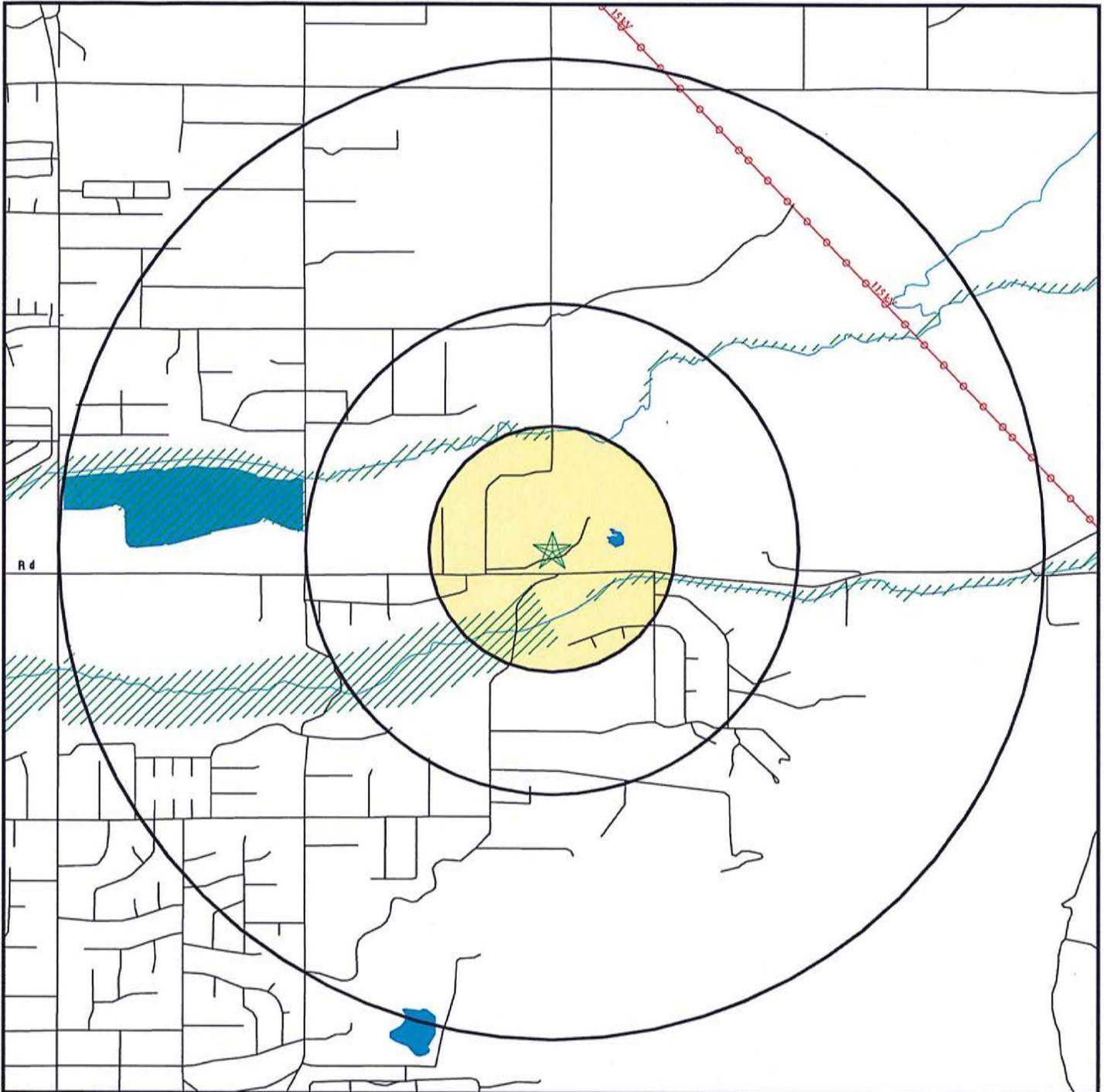
Site Name

FORT IRWIN LUCKY FUSE DISPOSAL  
YUCAIPA LANDFILL  
METH-LAB YUCAIPA  
CIRCLE K #324  
YUCAIPA LIFT STATINO  
VERIZON WIRELESS SITE:ACORN

Database(s)

WMUDS/SWAT, HIST CORTESE, CHMIRS  
HIST CORTESE  
CERC-NFRAP  
RCRA-SQG, FINDS, HIST UST  
AST  
San Bern. Co. Permit

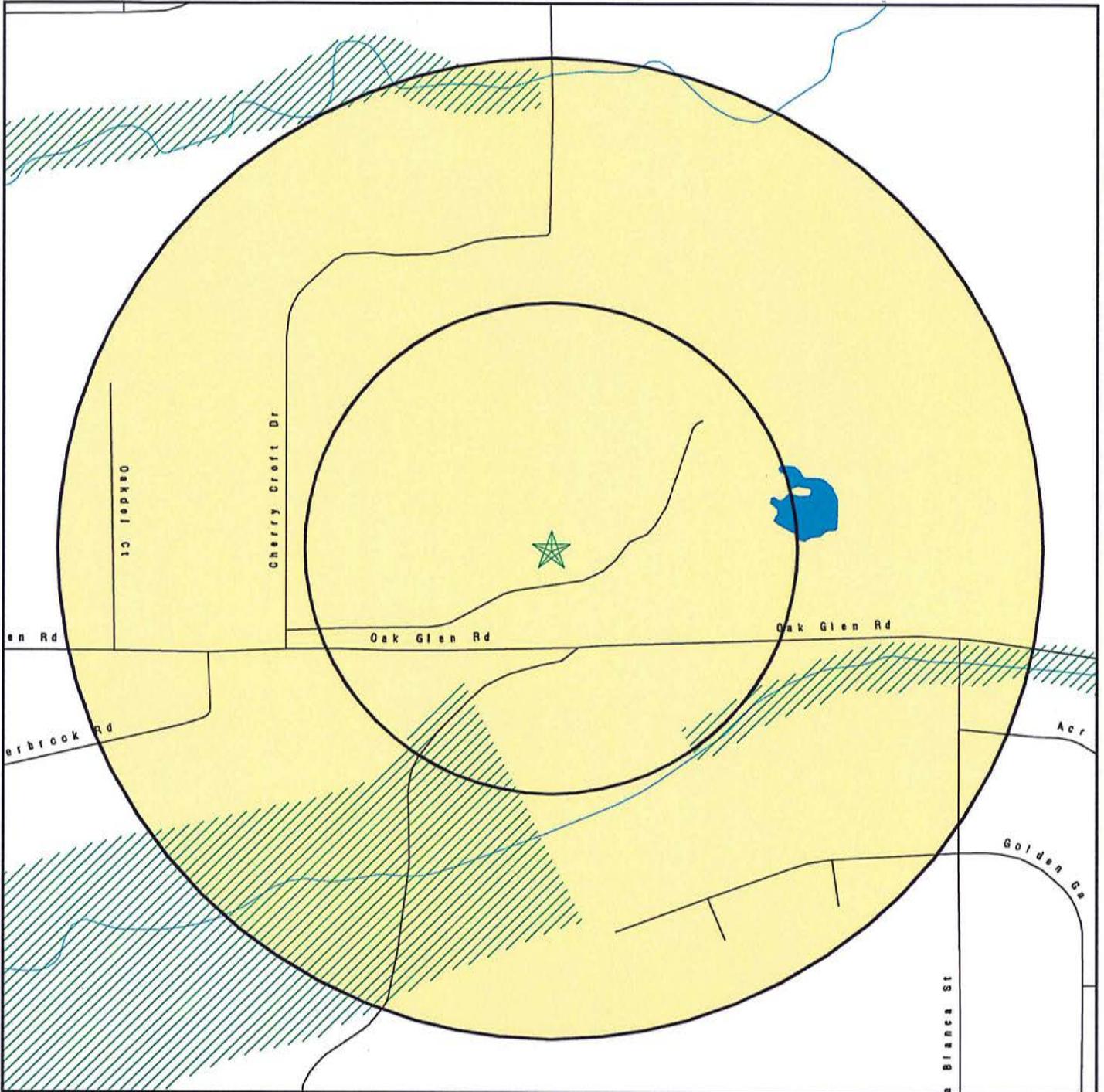
# OVERVIEW MAP - 03199789.2r



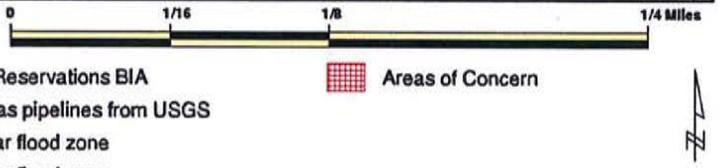
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p><b>SITE NAME:</b> Casa Blanca Ranch  <b>ADDRESS:</b> 36104 Oak Glen Road          Yucaipa CA 92399  <b>LAT/LONG:</b> 34.0492 / 117.0170</p>	<p><b>CLIENT:</b> Petra Geotechnical Inc  <b>CONTACT:</b> Jon Cain  <b>INQUIRY #:</b> 03199789.2r  <b>DATE:</b> November 08, 2011 4:38 pm</p>
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# DETAIL MAP - 03199789.2r



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ✱ Sensitive Receptors
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites
- ▨ Indian Reservations BIA
- ↗ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ Areas of Concern



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

<p><b>SITE NAME:</b> Casa Blanca Ranch  <b>ADDRESS:</b> 36104 Oak Glen Road                  Yucaipa CA 92399  <b>LAT/LONG:</b> 34.0492 / 117.0170</p>	<p><b>CLIENT:</b> Petra Geotechnical Inc  <b>CONTACT:</b> Jon Cain  <b>INQUIRY #:</b> 03199789.2r  <b>DATE:</b> November 08, 2011 4:39 pm</p>
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## 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
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Federal NPL site list</i></b>								
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
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS		0.500	0	0	0	NR	NR	0
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS		1.000	0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF		0.500	0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS		TP	NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL</i></b>								
RESPONSE		1.000	0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
ENVIROSTOR		1.000	0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF		0.500	0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST		0.500	0	0	0	NR	NR	0
SLIC		0.500	0	0	0	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
INDIAN LUST		0.500	0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
<b><i>State and tribal voluntary cleanup sites</i></b>								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
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
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US CDL		TP	NR	NR	NR	NR	NR	0
HIST Cal-Sites		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
<b><i>Local Lists of Registered Storage Tanks</i></b>								
CA FID UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
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
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS		TP	NR	NR	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
LDS		TP	NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MCS		TP	NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA-NonGen		0.250	0	0	NR	NR	NR	0
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	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	0	0	0	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
ENF		TP	NR	NR	NR	NR	NR	0
San Bern. Co. Permit		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
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
HWP		1.000	0	0	0	0	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
COAL ASH EPA		0.500	0	0	0	NR	NR	0
HWT		0.250	0	0	NR	NR	NR	0
<b>EDR PROPRIETARY RECORDS</b>								
<b>EDR Proprietary Records</b>								
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

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
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

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

NO SITES FOUND

Count: 6 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN BERNARDINO COUNT YUCAIPA	S103442535	FORT IRWIN LUCKY FUSE DISPOSAL	FORT IRWIN	92399	WMUDS/SWAT, HIST CORTESE, CHI
YUCAIPA	A100346271	YUCAIPA LIFT STATINO	32280 LIVE OAK CANYON RD	92399	AST
YUCAIPA	S110497040	VERIZON WIRELESS SITE:ACORN	OAK GLEN RD	92399	San Bern. Co. Permit
YUCAIPA	S105027556	YUCAIPA LANDFILL	OFF OF OAK GLEN RD 1.5 MI	92399	HIST CORTESE
YUCAIPA	1000174012	CIRCLE K #324	31933 OUTER HIGHWAY #10	92399	RCRA-SQG, FINDS, HIST UST
YUCAIPA	1003878992	METH-LAB YUCAIPA	YUCAIPA	92399	CERC-NFRAP

# 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: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	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: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	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: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	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	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	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 EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/14/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/23/2012
	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	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

## *Federal RCRA CORRACTS facilities list*

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/09/2011	Source: EPA
Date Data Arrived at EDR: 03/15/2011	Telephone: 800-424-9346
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 08/15/2011
Number of Days to Update: 91	Next Scheduled EDR Contact: 11/28/2011
	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: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 10/05/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/16/2012
	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: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 10/05/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/16/2012
	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: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 10/05/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/16/2012
	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: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 10/05/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## *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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/26/2011
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011	Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/26/2011
	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: 07/05/2011	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 07/05/2011	Telephone: 202-267-2180
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/04/2011
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/16/2012
	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: 09/13/2011	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/15/2011	Telephone: 916-323-3400
Date Made Active in Reports: 10/24/2011	Last EDR Contact: 11/08/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 02/20/2012
	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 identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; 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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/13/2011  
Date Data Arrived at EDR: 09/15/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 39

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/08/2011  
Next Scheduled EDR Contact: 02/20/2012  
Data Release Frequency: Quarterly

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

#### **SWF/LF (SWIS): Solid Waste Information System**

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

Date of Government Version: 08/22/2011  
Date Data Arrived at EDR: 08/24/2011  
Date Made Active in Reports: 10/03/2011  
Number of Days to Update: 40

Source: Department of Resources Recycling and Recovery  
Telephone: 916-341-6320  
Last EDR Contact: 08/24/2011  
Next Scheduled EDR Contact: 12/05/2011  
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: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: No Update Planned

#### **LUST REG 7: Leaking Underground Storage Tank Case Listing**

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

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

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

#### **LUST REG 6V: Leaking Underground Storage Tank Case Listing**

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

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

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

#### **LUST REG 6L: Leaking Underground Storage Tank Case Listing**

For more current information, please refer to the State Water Resources Control Board's LUST database.

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

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

#### **LUST REG 5: Leaking Underground Storage Tank Database**

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calaveras, 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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: 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: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

### LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

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

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

### LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

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

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

### LUST REG 1: Active Toxic Site Investigation

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

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

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

### LUST: Geotracker's Leaking Underground Fuel Tank Report

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

Date of Government Version: 09/19/2011  
Date Data Arrived at EDR: 09/20/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 34

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 09/20/2011  
Next Scheduled EDR Contact: 01/02/2012  
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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

### 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: 09/19/2011  
Date Data Arrived at EDR: 09/20/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 34

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/20/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Varies

### SLIC REG 1: Active Toxic Site Investigations

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

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

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

### SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

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

### SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

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

### SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

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

### SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

### SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

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

### SLIC REG 6L: SLIC Sites

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

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

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

### SLIC REG 7: SLIC List

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

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

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

### SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

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

### SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

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

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

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

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/04/2011      Source: EPA Region 10  
Date Data Arrived at EDR: 08/05/2011      Telephone: 206-553-2857  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 39      Next Scheduled EDR Contact: 02/13/2012  
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: 05/05/2011      Source: EPA Region 1  
Date Data Arrived at EDR: 08/02/2011      Telephone: 617-918-1313  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 11/01/2011  
Number of Days to Update: 42      Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Varies

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

Date of Government Version: 08/18/2011      Source: EPA Region 8  
Date Data Arrived at EDR: 08/19/2011      Telephone: 303-312-6271  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 25      Next Scheduled EDR Contact: 02/13/2012  
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      Source: EPA Region 6  
Date Data Arrived at EDR: 05/11/2011      Telephone: 214-665-6597  
Date Made Active in Reports: 06/14/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 34      Next Scheduled EDR Contact: 02/13/2012  
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: 08/11/2011      Source: EPA Region 4  
Date Data Arrived at EDR: 08/12/2011      Telephone: 404-562-8677  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 32      Next Scheduled EDR Contact: 02/13/2012  
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      Source: Environmental Protection Agency  
Date Data Arrived at EDR: 02/01/2011      Telephone: 415-972-3372  
Date Made Active in Reports: 03/21/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 48      Next Scheduled EDR Contact: 02/13/2012  
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: 02/16/2011      Source: EPA Region 7  
Date Data Arrived at EDR: 06/02/2011      Telephone: 913-551-7003  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 103      Next Scheduled EDR Contact: 02/13/2012  
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: 09/19/2011	Source: SWRCB
Date Data Arrived at EDR: 09/20/2011	Telephone: 916-480-1028
Date Made Active in Reports: 10/19/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Semi-Annually

### AST: Aboveground Petroleum Storage Tank Facilities Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-341-5712
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 10/11/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Quarterly

### INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/04/2011	Source: EPA Region 10
Date Data Arrived at EDR: 08/05/2011	Telephone: 206-553-2857
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 02/13/2012
	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: 08/04/2011	Source: EPA Region 9
Date Data Arrived at EDR: 08/05/2011	Telephone: 415-972-3368
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 39	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Quarterly

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011	Source: EPA Region 8
Date Data Arrived at EDR: 08/19/2011	Telephone: 303-312-6137
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/13/2012
	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	Source: EPA Region 7
Date Data Arrived at EDR: 06/01/2011	Telephone: 913-551-7003
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/13/2012
	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).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/10/2011      Source: EPA Region 6  
Date Data Arrived at EDR: 05/11/2011      Telephone: 214-665-7591  
Date Made Active in Reports: 06/14/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 34      Next Scheduled EDR Contact: 02/13/2012  
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: 07/01/2011      Source: EPA Region 5  
Date Data Arrived at EDR: 08/26/2011      Telephone: 312-886-6136  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 18      Next Scheduled EDR Contact: 02/13/2012  
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: 08/11/2011      Source: EPA Region 4  
Date Data Arrived at EDR: 08/12/2011      Telephone: 404-562-9424  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 32      Next Scheduled EDR Contact: 02/13/2012  
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: 05/05/2011      Source: EPA, Region 1  
Date Data Arrived at EDR: 08/08/2011      Telephone: 617-918-1313  
Date Made Active in Reports: 09/13/2011      Last EDR Contact: 10/31/2011  
Number of Days to Update: 36      Next Scheduled EDR Contact: 02/13/2012  
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      Source: FEMA  
Date Data Arrived at EDR: 02/16/2010      Telephone: 202-646-5797  
Date Made Active in Reports: 04/12/2010      Last EDR Contact: 10/17/2011  
Number of Days to Update: 55      Next Scheduled EDR Contact: 01/30/2012  
Data Release Frequency: Varies

### *State and tribal voluntary cleanup sites*

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008      Source: EPA, Region 7  
Date Data Arrived at EDR: 04/22/2008      Telephone: 913-551-7365  
Date Made Active in Reports: 05/19/2008      Last EDR Contact: 04/20/2009  
Number of Days to Update: 27      Next Scheduled EDR Contact: 07/20/2009  
Data Release Frequency: Varies

#### 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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/13/2011  
Date Data Arrived at EDR: 09/15/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 39

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/08/2011  
Next Scheduled EDR Contact: 02/20/2012  
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: 05/05/2011  
Date Data Arrived at EDR: 07/05/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 70

Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 10/04/2011  
Next Scheduled EDR Contact: 01/16/2012  
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: 06/27/2011  
Date Data Arrived at EDR: 06/27/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 78

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/28/2011  
Next Scheduled EDR Contact: 01/09/2012  
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: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

### SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/20/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 34

Source: Department of Conservation  
Telephone: 916-323-3836  
Last EDR Contact: 09/20/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Quarterly

### HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 09/14/2011  
Date Data Arrived at EDR: 09/15/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 39

Source: Integrated Waste Management Board  
Telephone: 916-341-6422  
Last EDR Contact: 09/06/2011  
Next Scheduled EDR Contact: 12/05/2011  
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: 11/07/2011  
Next Scheduled EDR Contact: 02/20/2012  
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: 06/08/2011  
Date Data Arrived at EDR: 09/16/2011  
Date Made Active in Reports: 09/29/2011  
Number of Days to Update: 13

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 09/07/2011  
Next Scheduled EDR Contact: 12/19/2011  
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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/13/2011  
Date Data Arrived at EDR: 09/15/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 39

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 11/08/2011  
Next Scheduled EDR Contact: 02/20/2012  
Data Release Frequency: Quarterly

### TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Date Data Arrived at EDR: 08/30/1995  
Date Made Active in Reports: 09/26/1995  
Number of Days to Update: 27

Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

### CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2011  
Date Data Arrived at EDR: 08/11/2011  
Date Made Active in Reports: 09/09/2011  
Number of Days to Update: 29

Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 10/03/2011  
Next Scheduled EDR Contact: 01/16/2012  
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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009	Source: Department of Public Health
Date Data Arrived at EDR: 09/23/2009	Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 09/06/2011
Number of Days to Update: 8	Next Scheduled EDR Contact: 12/19/2011
	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	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: 09/09/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/16/2011	Telephone: 202-564-6023
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/13/2012
	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	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/11/2011
Number of Days to Update: 31	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: 09/19/2011	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/20/2011	Telephone: 916-323-3400
Date Made Active in Reports: 10/24/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 09/12/2011	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 09/13/2011	Telephone: 916-323-3400
Date Made Active in Reports: 10/07/2011	Last EDR Contact: 09/13/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 12/26/2011
	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: 07/05/2011	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/05/2011	Telephone: 202-366-4555
Date Made Active in Reports: 09/30/2011	Last EDR Contact: 10/04/2011
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/16/2012
	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	Source: Office of Emergency Services
Date Data Arrived at EDR: 05/03/2011	Telephone: 916-845-8400
Date Made Active in Reports: 06/15/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/13/2012
	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: 09/19/2011	Source: State Water Quality Control Board
Date Data Arrived at EDR: 09/20/2011	Telephone: 866-480-1028
Date Made Active in Reports: 10/24/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/02/2012
	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: 09/19/2011	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/20/2011	Telephone: 866-480-1028
Date Made Active in Reports: 10/24/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

## Other Ascertainable Records

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 06/15/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/07/2011	Telephone: (415) 495-8895
Date Made Active in Reports: 08/08/2011	Last EDR Contact: 10/05/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Varies

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 02/11/2011	Telephone: 202-366-4595
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/08/2011
Number of Days to Update: 80	Next Scheduled EDR Contact: 02/20/2012
	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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/20/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/30/2012
	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	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/12/2010	Telephone: 202-528-4285
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/12/2011
Number of Days to Update: 112	Next Scheduled EDR Contact: 12/26/2011
	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: 06/01/2011	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 08/19/2011	Telephone: Varies
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/03/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/16/2012
	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: 07/31/2011	Source: EPA
Date Data Arrived at EDR: 09/14/2011	Telephone: 703-416-0223
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 09/14/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: Department of Energy
Date Data Arrived at EDR: 10/21/2010	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 99	Next Scheduled EDR Contact: 12/12/2011
	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: 08/18/2011	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/08/2011	Telephone: 303-231-5959
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 09/08/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/19/2011
	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	Source: EPA
Date Data Arrived at EDR: 12/17/2010	Telephone: 202-566-0250
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 94	Next Scheduled EDR Contact: 12/12/2011
	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	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 09/27/2011
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2012
	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/31/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/12/2011
	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/31/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	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	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 02/13/2012
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/21/2011	Telephone: 202-564-5088
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/26/2011
Number of Days to Update: 59	Next Scheduled EDR Contact: 01/09/2012
	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	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/19/2011
Number of Days to Update: 98	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/15/2011	Telephone: 301-415-7169
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/26/2011
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011	Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/13/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/23/2012
	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	Source: EPA
Date Data Arrived at EDR: 04/16/2010	Telephone: (415) 947-8000
Date Made Active in Reports: 05/27/2010	Last EDR Contact: 09/13/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/26/2011
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	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	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 09/01/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Biennially

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/31/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Quarterly

### NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/23/2011	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/24/2011	Telephone: 916-445-9379
Date Made Active in Reports: 10/03/2011	Last EDR Contact: 08/24/2011
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/05/2011
	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: 10/03/2011	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 10/04/2011	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2011	Last EDR Contact: 10/04/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/16/2012
	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 [CAL SITES].

Date of Government Version: 04/01/2001	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009	Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 01/22/2009
Number of Days to Update: 76	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 09/26/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 06/28/2011	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 07/21/2011	Telephone: 916-327-4498
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 12/26/2011
	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	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 10/03/2011
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/16/2012
	Data Release Frequency: Varies

### ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 08/15/2011	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/23/2011	Telephone: 916-445-9379
Date Made Active in Reports: 10/03/2011	Last EDR Contact: 10/31/2011
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/13/2012
	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: 12/31/2010	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/19/2011	Telephone: 916-255-1136
Date Made Active in Reports: 08/16/2011	Last EDR Contact: 10/17/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/30/2012
	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	Source: California Air Resources Board
Date Data Arrived at EDR: 09/29/2010	Telephone: 916-322-2990
Date Made Active in Reports: 10/18/2010	Last EDR Contact: 09/30/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 01/09/2012
	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	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/20/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 10/24/2011
Number of Days to Update: 54	Next Scheduled EDR Contact: 02/06/2012
	Data Release Frequency: Varies

### PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 09/08/2011	Source: Department of Conservation
Date Data Arrived at EDR: 09/20/2011	Telephone: 916-323-3836
Date Made Active in Reports: 10/24/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/02/2012
	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: 09/09/2011	Source: Department of Public Health
Date Data Arrived at EDR: 09/13/2011	Telephone: 916-558-1784
Date Made Active in Reports: 10/10/2011	Last EDR Contact: 09/12/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/26/2011
	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	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 10/18/2011
Number of Days to Update: 76	Next Scheduled EDR Contact: 01/30/2012
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 09/16/2011
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/26/2011
	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: 10/20/2011	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/21/2011	Telephone: 916-440-7145
Date Made Active in Reports: 11/08/2011	Last EDR Contact: 10/21/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/11/2010	Telephone: 916-323-3400
Date Made Active in Reports: 08/20/2010	Last EDR Contact: 09/01/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/12/2011
	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: 09/14/2011	Source: California Integrated Waste Management Board
Date Data Arrived at EDR: 09/16/2011	Telephone: 916-341-6066
Date Made Active in Reports: 10/24/2011	Last EDR Contact: 09/14/2011
Number of Days to Update: 38	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Varies

## FINANCIAL ASSURANCE 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 03/01/2007	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/01/2007	Telephone: 916-255-3628
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 11/04/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/13/2012
	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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/20/2011
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/30/2012
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 11/04/2011
Number of Days to Update: 100	Next Scheduled EDR Contact: 02/13/2012
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/21/2011  
Date Data Arrived at EDR: 07/21/2011  
Date Made Active in Reports: 08/11/2011  
Number of Days to Update: 21

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 10/03/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/21/2011  
Date Data Arrived at EDR: 07/21/2011  
Date Made Active in Reports: 08/11/2011  
Number of Days to Update: 21

Source: Alameda County Environmental Health Services  
Telephone: 510-567-6700  
Last EDR Contact: 10/03/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Semi-Annually

### BUTTE COUNTY:

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 10/31/2011  
Next Scheduled EDR Contact: 01/30/2012  
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: 10/17/2011  
Next Scheduled EDR Contact: 10/31/2011  
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: 08/30/2011  
Date Data Arrived at EDR: 08/31/2011  
Date Made Active in Reports: 09/19/2011  
Number of Days to Update: 19

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 11/07/2011  
Next Scheduled EDR Contact: 02/20/2012  
Data Release Frequency: Semi-Annually

### EL DORADO COUNTY:

#### CUPA Facility List

CUPA facility list.

Date of Government Version: 09/09/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/03/2011  
Number of Days to Update: 24

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 11/07/2011  
Next Scheduled EDR Contact: 02/20/2012  
Data Release Frequency: Varies

### FRESNO COUNTY:

#### CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/17/2011  
Date Data Arrived at EDR: 10/18/2011  
Date Made Active in Reports: 11/08/2011  
Number of Days to Update: 21

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 10/17/2011  
Next Scheduled EDR Contact: 01/30/2012  
Data Release Frequency: Semi-Annually

### HUMBOLDT COUNTY:

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 10/27/2011  
Next Scheduled EDR Contact: 12/12/2011  
Data Release Frequency: Varies

### INYO COUNTY:

#### CUPA Facility List

Cupa facility list.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 10/03/2011  
Number of Days to Update: 20

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/12/2011  
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: 09/13/2011  
Next Scheduled EDR Contact: 11/28/2011  
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: 06/09/2011  
Date Data Arrived at EDR: 06/09/2011  
Date Made Active in Reports: 07/08/2011  
Number of Days to Update: 29

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 12/12/2011  
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: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/28/2011	Source: Department of Public Works
Date Data Arrived at EDR: 09/13/2011	Telephone: 626-458-3517
Date Made Active in Reports: 10/07/2011	Last EDR Contact: 10/17/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Semi-Annually

## List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/25/2011	Source: La County Department of Public Works
Date Data Arrived at EDR: 07/27/2011	Telephone: 818-458-5185
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 10/25/2011
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/07/2011
	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	Source: Engineering & Construction Division
Date Data Arrived at EDR: 03/10/2009	Telephone: 213-473-7869
Date Made Active in Reports: 04/08/2009	Last EDR Contact: 08/23/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 12/05/2011
	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	Source: Community Health Services
Date Data Arrived at EDR: 02/09/2011	Telephone: 323-890-7806
Date Made Active in Reports: 03/04/2011	Last EDR Contact: 10/24/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 02/06/2012
	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	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 02/08/2011	Telephone: 310-524-2236
Date Made Active in Reports: 03/03/2011	Last EDR Contact: 10/24/2011
Number of Days to Update: 23	Next Scheduled EDR Contact: 02/06/2012
	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	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 10/23/2003	Telephone: 562-570-2563
Date Made Active in Reports: 11/26/2003	Last EDR Contact: 10/31/2011
Number of Days to Update: 34	Next Scheduled EDR Contact: 02/13/2012
	Data Release Frequency: Annually

## City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/18/2011	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/21/2011	Telephone: 310-618-2973
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 10/17/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Semi-Annually

## MADERA COUNTY:

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 09/13/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 10/04/2011  
Number of Days to Update: 21

Source: Madera County Environmental Health  
Telephone: 559-675-7823  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/12/2011  
Data Release Frequency: Varies

### MARIN COUNTY:

#### Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 07/15/2011  
Date Data Arrived at EDR: 07/25/2011  
Date Made Active in Reports: 08/11/2011  
Number of Days to Update: 17

Source: Public Works Department Waste Management  
Telephone: 415-499-6647  
Last EDR Contact: 10/11/2011  
Next Scheduled EDR Contact: 01/23/2012  
Data Release Frequency: Semi-Annually

### MERCED COUNTY:

#### CUPA Facility List

CUPA facility list.

Date of Government Version: 09/23/2011  
Date Data Arrived at EDR: 09/23/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 31

Source: Merced County Environmental Health  
Telephone: 209-381-1094  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/12/2011  
Data Release Frequency: Varies

### MONTEREY COUNTY:

#### CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/19/2011  
Date Data Arrived at EDR: 09/20/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 34

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 08/31/2011  
Next Scheduled EDR Contact: 12/12/2011  
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: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA Facility List

CUPA facility list.

Date of Government Version: 08/22/2011  
Date Data Arrived at EDR: 08/23/2011  
Date Made Active in Reports: 09/19/2011  
Number of Days to Update: 27

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 11/08/2011  
Next Scheduled EDR Contact: 02/20/2012  
Data Release Frequency: Varies

## ORANGE COUNTY:

### List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 08/01/2011  
Date Data Arrived at EDR: 08/23/2011  
Date Made Active in Reports: 09/19/2011  
Number of Days to Update: 27

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/17/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Annually

### List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 08/02/2011  
Date Data Arrived at EDR: 08/23/2011  
Date Made Active in Reports: 10/03/2011  
Number of Days to Update: 41

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/17/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Quarterly

### List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2011  
Date Data Arrived at EDR: 08/23/2011  
Date Made Active in Reports: 09/16/2011  
Number of Days to Update: 24

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/17/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 10/18/2011  
Number of Days to Update: 35

Source: Placer County Health and Human Services  
Telephone: 530-889-7312  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: Semi-Annually

## RIVERSIDE COUNTY:

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/20/2011	Source: Department of Environmental Health
Date Data Arrived at EDR: 10/21/2011	Telephone: 951-358-5055
Date Made Active in Reports: 11/08/2011	Last EDR Contact: 09/26/2011
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Quarterly

### Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/20/2011	Source: Department of Environmental Health
Date Data Arrived at EDR: 07/22/2011	Telephone: 951-358-5055
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 09/26/2011
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/26/2012
	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: 08/02/2011	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 10/12/2011	Telephone: 916-875-8406
Date Made Active in Reports: 11/08/2011	Last EDR Contact: 10/07/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/23/2012
	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: 08/02/2011	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 10/14/2011	Telephone: 916-875-8406
Date Made Active in Reports: 11/08/2011	Last EDR Contact: 10/07/2011
Number of Days to Update: 25	Next Scheduled EDR Contact: 01/23/2012
	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: 08/26/2011	Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 08/31/2011	Telephone: 909-387-3041
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/15/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 11/28/2011
	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.)

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/16/2011  
Next Scheduled EDR Contact: 12/26/2011  
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: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
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: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

### SAN FRANCISCO COUNTY:

#### Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  
Date Data Arrived at EDR: 09/19/2008  
Date Made Active in Reports: 09/29/2008  
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County  
Telephone: 415-252-3920  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
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: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
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: 09/27/2011  
Date Data Arrived at EDR: 09/28/2011  
Date Made Active in Reports: 10/19/2011  
Number of Days to Update: 21

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Semi-Annually

### SAN LUIS OBISPO COUNTY:

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### CUPA Facility List

Cupa Facility List.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 24

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/12/2011  
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: 07/13/2011  
Date Data Arrived at EDR: 07/15/2011  
Date Made Active in Reports: 08/11/2011  
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/12/2012  
Data Release Frequency: Annually

#### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/20/2011  
Date Data Arrived at EDR: 09/22/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: Semi-Annually

### SANTA BARBARA COUNTY:

#### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011  
Date Data Arrived at EDR: 09/09/2011  
Date Made Active in Reports: 10/07/2011  
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 08/31/2011  
Next Scheduled EDR Contact: 12/12/2011  
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: 09/06/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 10/10/2011  
Number of Days to Update: 27

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 09/06/2011  
Next Scheduled EDR Contact: 12/19/2011  
Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 09/01/2011	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 09/01/2011	Telephone: 408-535-7694
Date Made Active in Reports: 10/03/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 32	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: Annually

### SANTA CRUZ COUNTY:

#### CUPA Facility List

CUPA facility listing.

Date of Government Version: 08/31/2011	Source: Santa Cruz County Environmental Health
Date Data Arrived at EDR: 08/31/2011	Telephone: 831-464-2761
Date Made Active in Reports: 09/09/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/12/2011
	Data Release Frequency: Varies

### SHASTA COUNTY:

#### CUPA Facility List

Cupa Facility List.

Date of Government Version: 08/31/2011	Source: Shasta County Department of Resource Management
Date Data Arrived at EDR: 08/31/2011	Telephone: 530-225-5789
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 08/31/2011
Number of Days to Update: 19	Next Scheduled EDR Contact: 12/12/2011
	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: 09/20/2011	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 09/28/2011	Telephone: 707-784-6770
Date Made Active in Reports: 10/25/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

#### Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 09/20/2011	Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 09/28/2011	Telephone: 707-784-6770
Date Made Active in Reports: 10/19/2011	Last EDR Contact: 09/19/2011
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

### SONOMA COUNTY:

#### Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/03/2011  
Next Scheduled EDR Contact: 01/16/2012  
Data Release Frequency: Quarterly

### SUTTER COUNTY:

#### Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 09/12/2011  
Date Data Arrived at EDR: 09/13/2011  
Date Made Active in Reports: 10/19/2011  
Number of Days to Update: 36

Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
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: 07/26/2011  
Date Data Arrived at EDR: 08/26/2011  
Date Made Active in Reports: 09/19/2011  
Number of Days to Update: 24

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/23/2011  
Next Scheduled EDR Contact: 12/05/2011  
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: 09/14/2011  
Date Data Arrived at EDR: 09/15/2011  
Date Made Active in Reports: 10/24/2011  
Number of Days to Update: 39

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 01/23/2012  
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: 08/23/2011  
Next Scheduled EDR Contact: 12/05/2011  
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: 07/26/2011  
Date Data Arrived at EDR: 08/08/2011  
Date Made Active in Reports: 09/09/2011  
Number of Days to Update: 32

Source: Ventura County Resource Management Agency  
Telephone: 805-654-2813  
Last EDR Contact: 10/31/2011  
Next Scheduled EDR Contact: 02/13/2012  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/30/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 09/20/2011	Telephone: 805-654-2813
Date Made Active in Reports: 10/19/2011	Last EDR Contact: 09/20/2011
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: Quarterly

### YOLO COUNTY:

#### Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 08/15/2011	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/23/2011	Telephone: 530-666-8646
Date Made Active in Reports: 09/16/2011	Last EDR Contact: 10/11/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/09/2012
	Data Release Frequency: Annually

### YUBA COUNTY:

#### CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 08/23/2011	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 08/26/2011	Telephone: 530-749-7523
Date Made Active in Reports: 09/19/2011	Last EDR Contact: 11/07/2011
Number of Days to Update: 24	Next Scheduled EDR Contact: 02/20/2012
	Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/26/2009	Telephone: 860-424-3375
Date Made Active in Reports: 09/11/2009	Last EDR Contact: 10/28/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/05/2011
	Data Release Frequency: Annually

#### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/20/2011	Telephone: N/A
Date Made Active in Reports: 08/11/2011	Last EDR Contact: 10/18/2011
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/30/2012
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2011  
Date Data Arrived at EDR: 08/09/2011  
Date Made Active in Reports: 09/16/2011  
Number of Days to Update: 38

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 11/08/2011  
Next Scheduled EDR Contact: 02/20/2012  
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: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 06/24/2011  
Date Made Active in Reports: 06/30/2011  
Number of Days to Update: 6

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/31/2011  
Next Scheduled EDR Contact: 12/12/2011  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2010  
Date Data Arrived at EDR: 08/19/2011  
Date Made Active in Reports: 09/15/2011  
Number of Days to Update: 27

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

**Flood Zone Data:** This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

### Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

### STREET AND ADDRESS INFORMATION

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## GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

CASA BLANCA RANCH  
36104 OAK GLEN ROAD  
YUCAIPA, CA 92399

### TARGET PROPERTY COORDINATES

Latitude (North):	34.04920 - 34° 2' 57.1"
Longitude (West):	117.017 - 117° 1' 1.2"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	498431.0
UTM Y (Meters):	3767416.8
Elevation:	3085 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	34117-A1 YUCAIPA, CA
Most Recent Revision:	1988
East Map:	34116-A8 FOREST FALLS, CA
Most Recent Revision:	1988

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<sup>®</sup> - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

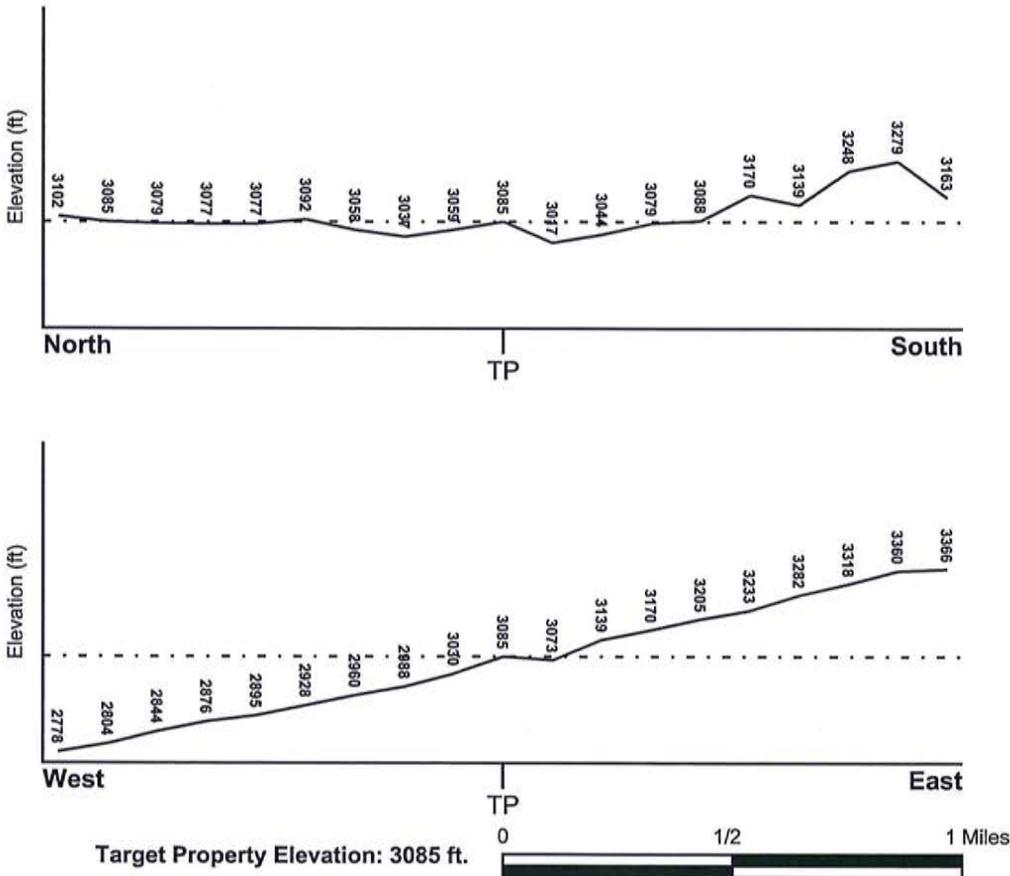
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

Target Property County  
SAN BERNARDINO, CA

FEMA Flood  
Electronic Data  
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06071C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property  
NOT AVAILABLE

NWI Electronic  
Data Coverage  
YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### *Site-Specific Hydrogeological Data\*:*

Search Radius: 1.25 miles  
Status: Not found

### AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

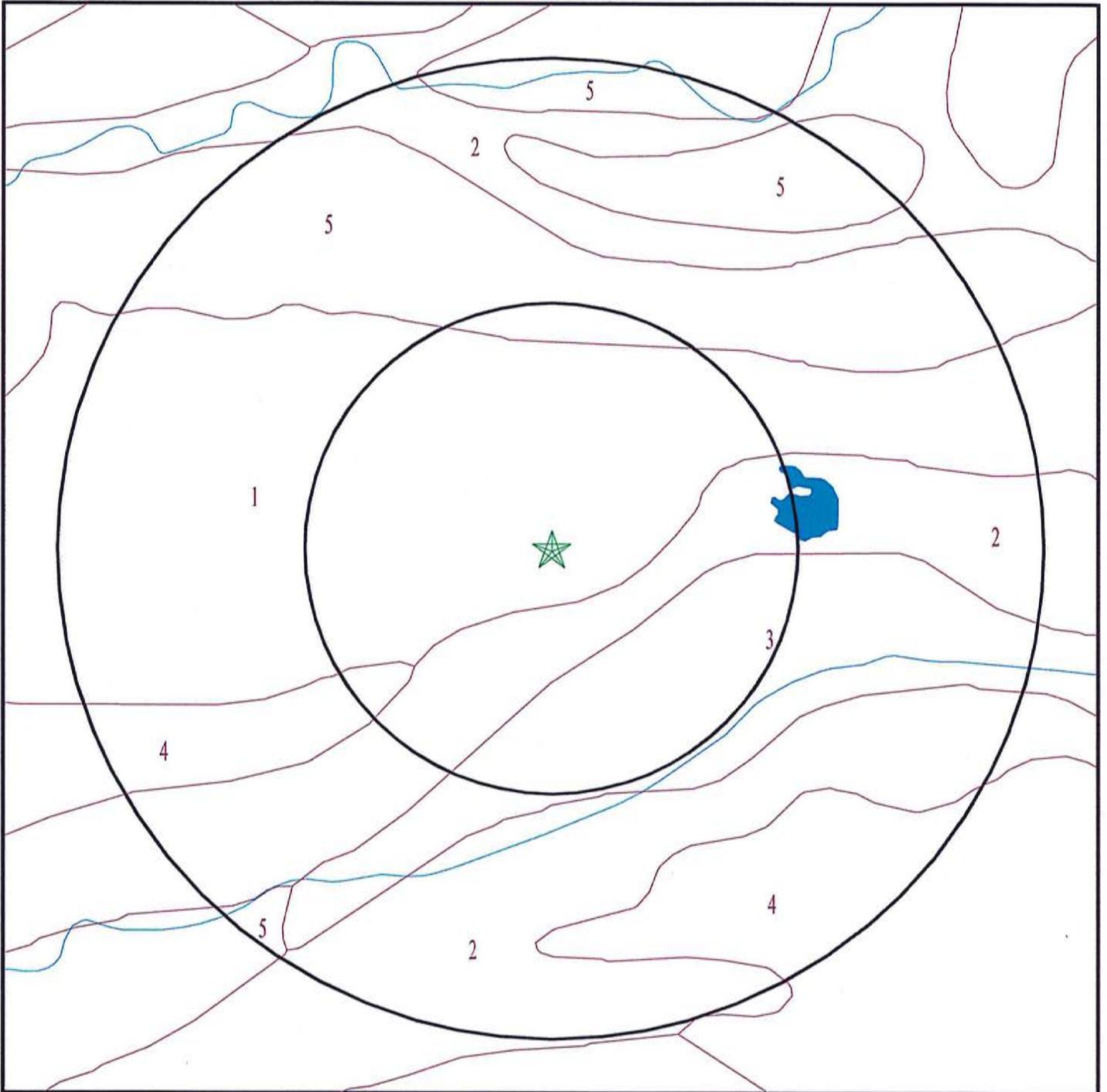
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (decoded above as Era, System & Series)

#### GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 03199789.2r



- ★ Target Property
- ∕ SSURGO Soil
- ∕ Water



17

SITE NAME: Casa Blanca Ranch  
ADDRESS: 36104 Oak Glen Road  
Yucaipa CA 92399  
LAT/LONG: 34.0492 / 117.0170

CLIENT: Petra Geotechnical Inc  
CONTACT: Jon Cain  
INQUIRY #: 03199789.2r  
DATE: November 08, 2011 4:40 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: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
2	16 inches	50 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
3	50 inches	59 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 2**

Soil Component Name: Saugus

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: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 4 Min: 1.4	Max: Min:
2	7 inches	40 inches	loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 4 Min: 1.4	Max: Min:
3	40 inches	44 inches	weathered bedrock	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	Not reported	Max: 4 Min: 1.4	Max: Min:

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 3**

Soil Component Name: SOBOBA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.3 Min: 6.6
2	11 inches	35 inches	very gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.3 Min: 6.6
3	35 inches	59 inches	very stony sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 7.3 Min: 6.6

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 4**

Soil Component Name: Hanford

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							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	11 inches	59 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6

**Soil Map ID: 5**

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep; well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	35 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	35 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

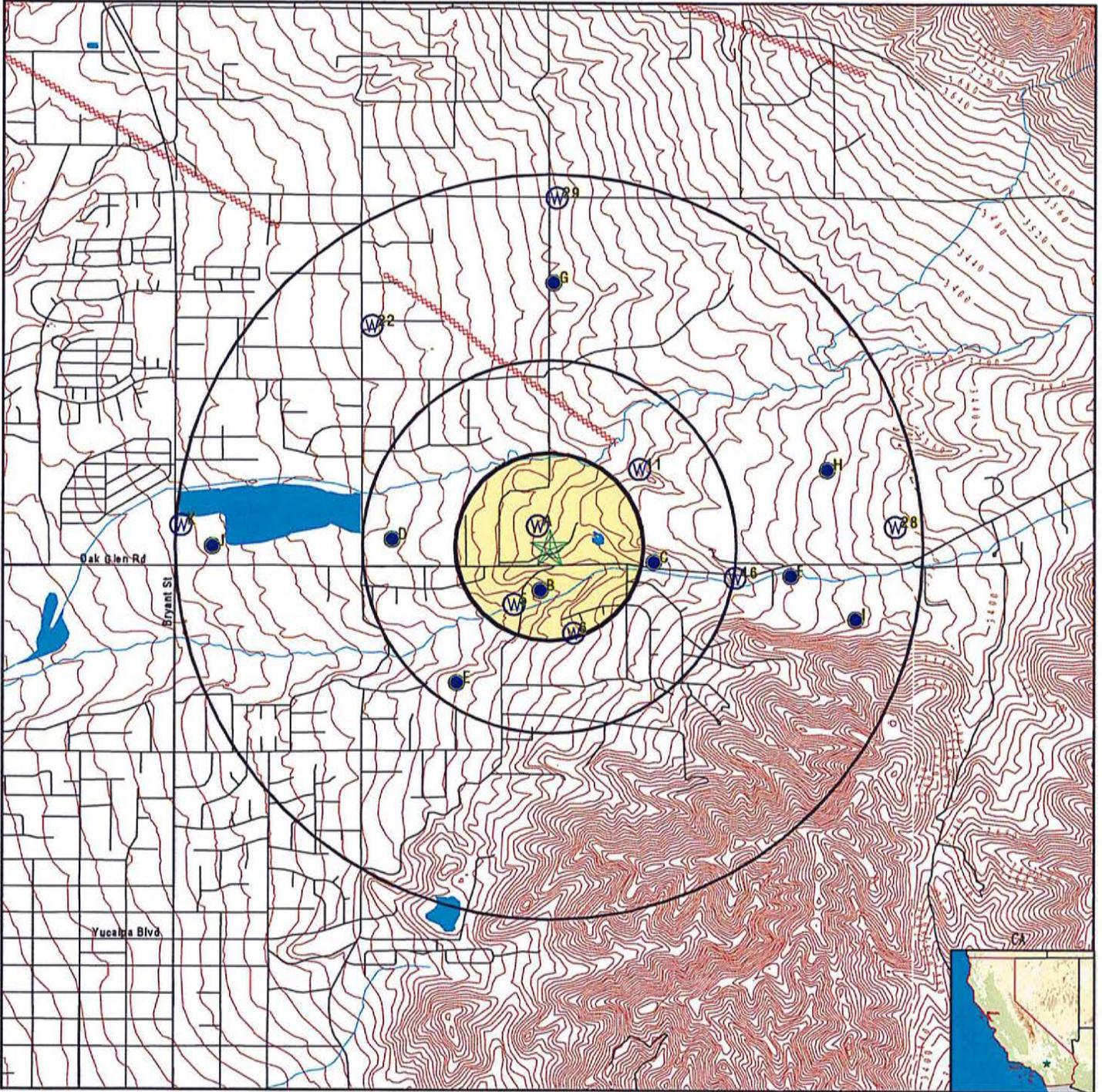
### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

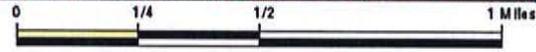
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
_____	_____	_____

# PHYSICAL SETTING SOURCE MAP - 03199789.2r



- 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



<p><b>SITE NAME:</b> Casa Blanca Ranch  <b>ADDRESS:</b> 36104 Oak Glen Road                  Yucaipa CA 92399  <b>LAT/LONG:</b> 34.0492 / 117.0170</p>	<p><b>CLIENT:</b> Petra Geotechnical Inc  <b>CONTACT:</b> Jon Cain  <b>INQUIRY #:</b> 03199789.2r  <b>DATE:</b> November 08, 2011 4:39 pm</p>
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## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B3	USGS3135871	0 - 1/8 Mile South
5	USGS3135866	1/8 - 1/4 Mile SSW
6	USGS3135847	1/8 - 1/4 Mile SSE
C9	USGS3135889	1/4 - 1/2 Mile East
C10	USGS3135651	1/4 - 1/2 Mile East
11	USGS3135692	1/4 - 1/2 Mile NE
D12	USGS3135667	1/4 - 1/2 Mile West
E13	USGS3135821	1/4 - 1/2 Mile SSW
16	USGS3135878	1/2 - 1 Mile East
F18	USGS3135877	1/2 - 1 Mile East
G19	USGS3135563	1/2 - 1 Mile North
22	USGS3135528	1/2 - 1 Mile NW
H23	USGS3135691	1/2 - 1 Mile ENE
I25	USGS3135854	1/2 - 1 Mile ESE
J26	USGS3135664	1/2 - 1 Mile West
29	USGS3135613	1/2 - 1 Mile North

### 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
A1	754	0 - 1/8 Mile NNW
A2	18857	0 - 1/8 Mile NNW
B4	CADW40000006353	1/8 - 1/4 Mile SSW
C7	CADW40000006357	1/4 - 1/2 Mile East
C8	CADW40000006358	1/4 - 1/2 Mile East
D14	CADW40000006367	1/4 - 1/2 Mile West
E15	CADW40000006340	1/4 - 1/2 Mile SW
F17	CADW40000006354	1/2 - 1 Mile East
G20	CADW40000006424	1/2 - 1 Mile North
H21	CADW40000006382	1/2 - 1 Mile ENE
I24	CADW40000006347	1/2 - 1 Mile ESE
J27	CADW40000006363	1/2 - 1 Mile West
28	753	1/2 - 1 Mile East
K30	752	1/2 - 1 Mile West
K31	751	1/2 - 1 Mile West
K32	783	1/2 - 1 Mile West
K33	781	1/2 - 1 Mile West

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**NNW**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      754**

**Water System Information:**

Prime Station Code:	01S/01W-32C01 S	User ID:	TAN
FRDS Number:	3610055014	County:	San Beernardino
District Number:	13	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	340300.0 1170100.0	Precision:	Undefined
Source Name:	WELL 13 - STANDBY		
System Number:	3610055		
System Name:	YUCAIPA VALLEY WD ID-A&2		
Organization That Operates System:	P.O. BOX 730		
	YUCAIPA, CA 92399		
Pop Served:	34000	Connections:	7831
Area Served:	YUCAIPA		

**A2**  
**NNW**  
**0 - 1/8 Mile**  
**Lower**

**CA WELLS      18857**

**Water System Information:**

Prime Station Code:	3610055-060THM	User ID:	TAN
FRDS Number:	3610055060	County:	San Beernardino
District Number:	13	Station Type:	RESVR/AMBNT
Water Type:	Surface Water	Well Status:	Distribution System Sample Point Treated
Source Lat/Long:	340300.0 1170100.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	DISTRIBUTION SYSTEM THM - R7		
System Number:	3610055		
System Name:	YUCAIPA VALLEY WD ID-A&2		
Organization That Operates System:	P.O. BOX 730		
	YUCAIPA, CA 92399		
Pop Served:	34000	Connections:	7831
Area Served:	YUCAIPA		
Sample Collected:	03/09/2000	Findings:	4. UG/L
Chemical:	BROMODICHLORMETHANE (THM)		

**B3**  
**South**  
**0 - 1/8 Mile**  
**Lower**

**FED USGS      USGS3135871**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340251117005801
Site name:	001S001W31A002S	EDR Site id:	USGS3135871
Latitude:	340251	Dec lat:	34.0475134
Longitude:	1170058	Coor meth:	M
Dec lon:	-117.01697461	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	3004.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	19100101
Date inventoried:	19701020	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	256	Hole depth:	288
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1970-10-01	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1970-10-01

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1970-10-01	145.00	

**B4**  
**SSW**  
1/8 - 1/4 Mile  
Lower

**CA WELLS      CADW40000006353**

Longitude:	-117.017		
Latitude:	34.0475		
Stwellno:	01S01W31A002S		
Districtco:	3		
Welluseco:	Z		
Countyco:	36		
Gwcode:	800207		
Site id:	CADW40000006353		

**5**  
**SSW**  
1/8 - 1/4 Mile  
Lower

**FED USGS      USGS3135866**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340249117010401
Site name:	001S001W31A001S	EDR Site id:	USGS3135866
Latitude:	340249	Dec lat:	34.04695787
Longitude:	1170104	Coor meth:	M
Dec lon:	-117.01864134	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	2985.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	19701016	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	288
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

6

SSE

1/8 - 1/4 Mile

Lower

FED USGS

USGS3135847

Agency cd:	USGS	Site no:	340245117005401
Site name:	001S001W32D001S	EDR Site id:	USGS3135847
Latitude:	340245	Dec lat:	34.04584678
Longitude:	1170054	Coor meth:	M
Dec lon:	-117.01586339	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	3050.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Alluvial or marine terrace		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag: Y  
 Type of ground water site: Single well, other than collector or Ranney type  
 Aquifer Type: Not Reported  
 Aquifer: Not Reported  
 Well depth: Not Reported      Hole depth: 312  
 Source of depth data: other government (other than USGS)  
 Project number: Not Reported  
 Real time data flag: Not Reported      Daily flow data begin date: Not Reported  
 Daily flow data end date: Not Reported      Daily flow data count: Not Reported  
 Peak flow data begin date: Not Reported      Peak flow data end date: Not Reported  
 Peak flow data count: Not Reported      Water quality data begin date: Not Reported  
 Water quality data end date: Not Reported      Water quality data count: Not Reported  
 Ground water data begin date: Not Reported      Ground water data end date: Not Reported  
 Ground water data count: Not Reported

Ground-water levels, Number of Measurements: 0

**C7**  
 East  
 1/4 - 1/2 Mile  
 Higher

CA WELLS

CADW40000006357

Longitude: -117.0117  
 Latitude: 34.0486  
 Stwellno: 01S01W29P001S  
 Districtco: 3  
 Welluseco: Z  
 Countyco: 36  
 Gwcode: 800207  
 Site id: CADW40000006357

**C8**  
 East  
 1/4 - 1/2 Mile  
 Higher

CA WELLS

CADW40000006358

Longitude: -117.0117  
 Latitude: 34.0486  
 Stwellno: 01S01W29P002S  
 Districtco: 3  
 Welluseco: Z  
 Countyco: 36  
 Gwcode: 800207  
 Site id: CADW40000006358

**C9**  
 East  
 1/4 - 1/2 Mile  
 Higher

FED USGS

USGS3135889

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340255117003901
Site name:	001S001W29P001S	EDR Site id:	USGS3135889
Latitude:	340255	Dec lat:	34.04862446
Longitude:	1170039	Coor meth:	M
Dec lon:	-117.01169662	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	3108.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	19100101
Date inventoried:	19530918	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	140	Hole depth:	145
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1970-10-01	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1970-10-01

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1970-10-01	35.00	

**C10**  
East  
1/4 - 1/2 Mile  
Higher

FED USGS    USGS3135651

Agency cd:	USGS	Site no:	340255117003902
Site name:	001S001W29P002S	EDR Site id:	USGS3135651
Latitude:	340255	Dec lat:	34.04862446
Longitude:	1170039	Coor meth:	M
Dec lon:	-117.01169662	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	3108.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19640501
Date inventoried:	19680924	Mean greenwich time offset:	PST



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**D12**

**West**

**1/4 - 1/2 Mile**

**Lower**

**FED USGS**

**USGS3135667**

Agency cd:	USGS	Site no:	340258117012301
Site name:	001S001W30Q001S	EDR Site id:	USGS3135667
Latitude:	340258	Dec lat:	34.04945781
Longitude:	1170123	Coor meth:	M
Dec lon:	-117.02391945	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec lallong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	2946.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	471	Hole depth:	471
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	0000-00-00	Water quality data end date:	0000-00-00
Water quality data count:	0		
Ground water data begin date:	1970-10-01	Ground water data end date:	1970-10-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
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1970-10-01	370.00	
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**E13**

**SSW**

**1/4 - 1/2 Mile**

**Lower**

**FED USGS**

**USGS3135821**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340238117011201
Site name:	001S001W31H001S	EDR Site id:	USGS3135821
Latitude:	340238	Dec lat:	34.04390242
Longitude:	1170112	Coor meth:	M
Dec lon:	-117.02086356	Latlong datum:	NAD27
Coor acsr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	2980.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana. California. Area = 1680 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19290101
Date inventoried:	19711020	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	323	Hole depth:	383
Source of depth data:	logs		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1970-10-01	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1970-10-01

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1970-10-01	214.00	

**D14**  
West  
1/4 - 1/2 Mile  
Lower

CA WELLS      CADW4000006367

Longitude:	-117.0239
Latitude:	34.0495
Stwellno:	01S01W30Q001S
Districtco:	3
Welluseco:	Z
Countyco:	36
Gwcode:	800207
Site id:	CADW4000006367

**E15**  
SW  
1/4 - 1/2 Mile  
Lower

CA WELLS      CADW4000006340

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -117.0209  
 Latitude: 34.0439  
 Stwellno: 01S01W31H001S  
 Districtco: 3  
 Welluseco: Z  
 Countyco: 36  
 Gwcode: 800207  
 Site id: CADW4000006340

**16**  
**East**  
**1/2 - 1 Mile**  
**Higher**

FED USGS      USGS3135878

Agency cd:	USGS	Site no:	340253117002701
Site name:	001S001W32C001S	EDR Site id:	USGS3135878
Latitude:	340252.85	Dec lat:	34.04801389
Longitude:	1170029.99	Coor meth:	G
Dec lon:	-117.00833056	Latlong datum:	NAD83
Coor accr:	5	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	3193.6		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	19440301
Date inventoried:	20000418	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	CENOZOIC ERATHEM		
Well depth:	415	Hole depth:	415
Source of depth data:	owner		
Project number:	470652422		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	2003-06-04	Water quality data begin date:	1997-07-29
Water quality data end date:	1970-10-01	Water quality data count:	3
Ground water data begin date:	1970-10-01	Ground water data end date:	2004-06-22
Ground water data count:	4		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-06-22	32		2003-06-19	30	
2000-05-15	20		1970-10-01	28.00	

**F17**  
**East**  
**1/2 - 1 Mile**  
**Higher**

CA WELLS      CADW4000006354

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -117.0053  
 Latitude: 34.0481  
 Stwellno: 01S01W32B001S  
 Districtco: 3  
 Welluseco: Z  
 Countyco: 36  
 Gwcode: 800207  
 Site id: CADW40000006354

**F18**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3135877**

Agency cd:	USGS	Site no:	340253117001601
Site name:	001S001W32B001S	EDR Site id:	USGS3135877
Latitude:	340253	Dec lat:	34.0480689
Longitude:	1170016	Coor meth:	M
Dec lon:	-117.00530742	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	3240.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California, Area = 1680 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19700101
Date inventoried:	19701124	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	78.0	Hole depth:	95.0
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0		
Daily flow data begin date:	0000-00-00	Daily flow data count:	0
Daily flow data end date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data begin date:	0000-00-00	Water quality data begin date:	0000-00-00
Peak flow data count:	0	Water quality data count:	0
Water quality data end date:	0000-00-00	Ground water data end date:	1970-11-01
Ground water data begin date:	1970-11-01		
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1970-11-01	40.00	

**G19**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS3135563**

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340334117005601
Site name:	001S001W29D001S	EDR Site id:	USGS3135563
Latitude:	340334	Dec lat:	34.05945746
Longitude:	1170056	Coor meth:	M
Dec lon:	-117.01641944	Lalong datum:	NAD27
Coor accr:	S	District:	06
Dec lalong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	3040.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	Not Reported		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1947-12-01	Ground water data end date:	1947-12-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1947-12-01	51.00	

**G20**  
North  
1/2 - 1 Mile  
Lower

CA WELLS      CADW4000006424

Longitude:	-117.0164
Latitude:	34.0595
Stwellno:	01S01W29D001S
Districtco:	3
Welluseco:	Z
Countyco:	36
Gwcode:	800207
Site id:	CADW4000006424

**H21**  
ENE  
1/2 - 1 Mile  
Higher

CA WELLS      CADW4000006382

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -117.0036  
 Latitude: 34.0522  
 Stwellno: 01S01W29R001S  
 Districtco: 3  
 Welluseco: Z  
 Countyco: 36  
 Gwcode: 800207  
 Site id: CADW4000006382

**22**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

FED USGS    USGS3135528

Agency cd:	USGS	Site no:	340328117012801
Site name:	001S001W30G001S	EDR Site id:	USGS3135528
Latitude:	340328	Dec lat:	34.05779087
Longitude:	1170128	Coor meth:	M
Dec lon:	-117.02530868	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	2933.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	19490101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	550	Hole depth:	550
Source of depth data:	Not Reported		
Project number:	9479335800		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Daily flow data count:	0		
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0		
Water quality data begin date:	0000-00-00	Water quality data end date:	0000-00-00
Water quality data count:	0		
Ground water data begin date:	1970-04-01	Ground water data end date:	1970-04-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1970-04-01	421.00	

**H23**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

FED USGS    USGS3135691

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340308117001001
Site name:	001S001W29R001S	EDR Site id:	USGS3135691
Latitude:	340308	Dec lat:	34.05223543
Longitude:	1170010	Coor meth:	M
Dec lon:	-117.00364082	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	3288.00		
Altitude method:	Altimeter		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19710222
Date inventoried:	19710222	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	118	Hole depth:	118
Source of depth data:	reporting agency (generally USGS)		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1971-03-01	Ground water data end date:	1971-03-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1971-03-01	62.00		1971-03-01	62.00	

**I24**  
ESE  
1/2 - 1 Mile  
Higher

CA WELLS    CADW4000006347

Longitude:	-117.0023
Latitude:	34.0464
Stwellno:	01S01W32A002S
Districtco:	3
Welluseco:	Z
Countyco:	36
Gwcode:	800207
Site id:	CADW4000006347

**I25**  
ESE  
1/2 - 1 Mile  
Higher

FED USGS    USGS3135854

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	340247117000501
Site name:	001S001W32A002S	EDR Site id:	USGS3135854
Latitude:	340247	Dec lat:	34.04640227
Longitude:	1170005	Coor meth:	M
Dec lon:	-117.00225166	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	Not Reported
Location map:	Not Reported		
Altitude:	3350.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1968-09-01	Ground water data end date:	1968-09-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1968-09-01	37.00		1968-09-01	37.00	

**J26  
West  
1/2 - 1 Mile  
Lower**

**FED USGS    USGS3135664**

Agency cd:	USGS	Site no:	340257117015301
Site name:	001S001W30N001S	EDR Site id:	USGS3135664
Latitude:	340257	Dec lat:	34.04918007
Longitude:	1170153	Coor meth:	M
Dec lon:	-117.03225316	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	071
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	YUCAIPA		
Altitude:	2820.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana, California. Area = 1680 sq.mi.		
Topographic:	Alluvial fan		
Site type:	Ground-water other than Spring	Date construction:	196908
Date inventoried:	196908	Mean greenwich time offset:	PST



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**28**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      753**

**Water System Information:**

Prime Station Code: 01S/01W-32A01 S	User ID: TAN	
FRDS Number: 3610055015	County: San Bernardino	
District Number: 13	Station Type: WELL/AMBNT/MUN/INTAKE/SUPPLY	
Water Type: Well/Groundwater	Well Status: Active Raw	
Source Lat/Long: 340300.0 1170000.0	Precision: Undefined	
Source Name: WELL 14		
System Number: 3610055		
System Name: YUCAIPA VALLEY WD ID-A&2		
Organization That Operates System:		
P.O. BOX 730		
YUCAIPA, CA 92399		
Pop Served: 34000	Connections: 7831	
Area Served: YUCAIPA		
Sample Collected: 03/15/2006	Findings: 20. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 05/18/2006	Findings: 0.2 PCI/L	
Chemical: RADIUM 228 COUNTING ERROR		
Sample Collected: 08/10/2006	Findings: 0.505 PCI/L	
Chemical: RADIUM 228 COUNTING ERROR		
Sample Collected: 11/17/2006	Findings: 0.601 PCI/L	
Chemical: RADIUM 228 COUNTING ERROR		
Sample Collected: 11/17/2006	Findings: 0.55 PCI/L	
Chemical: RADIUM 228 MDA95		
Sample Collected: 02/22/2007	Findings: 15. MG/L	
Chemical: NITRATE (AS NO3)		
Sample Collected: 08/23/2007	Findings: 290. MG/L	
Chemical: TOTAL DISSOLVED SOLIDS		
Sample Collected: 03/20/2008	Findings: 25. C	
Chemical: SOURCE TEMPERATURE C		
Sample Collected: 03/20/2008	Findings: 470. US	
Chemical: SPECIFIC CONDUCTANCE		
Sample Collected: 03/20/2008	Findings: 7.3	
Chemical: PH, LABORATORY		
Sample Collected: 03/20/2008	Findings: 190. MG/L	
Chemical: ALKALINITY (TOTAL) AS CaCO3		
Sample Collected: 03/20/2008	Findings: 230. MG/L	
Chemical: BICARBONATE ALKALINITY		
Sample Collected: 03/20/2008	Findings: 190. MG/L	
Chemical: HARDNESS (TOTAL) AS CaCO3		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/20/2008	Findings:	53. MG/L
Chemical:	CALCIUM		
Sample Collected:	03/20/2008	Findings:	15. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/20/2008	Findings:	22. MG/L
Chemical:	SODIUM		
Sample Collected:	03/20/2008	Findings:	12. MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/20/2008	Findings:	0.3 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03/20/2008	Findings:	280. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/20/2008	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03/20/2008	Findings:	11.8
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	08/20/2008	Findings:	300. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/16/2009	Findings:	11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/20/2009	Findings:	270. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04/30/2010	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08/18/2010	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/18/2010	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/17/2011	Findings:	520. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/17/2011	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	02/17/2011	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	02/17/2011	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	02/17/2011	Findings:	210. MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	02/17/2011	Findings:	57. MG/L
Chemical:	CALCIUM		
Sample Collected:	02/17/2011	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	02/17/2011	Findings:	22. MG/L
Chemical:	SODIUM		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/17/2011	Findings:	1.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	02/17/2011	Findings:	12. MG/L
Chemical:	CHLORIDE		
Sample Collected:	02/17/2011	Findings:	0.3 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	02/17/2011	Findings:	290. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02/17/2011	Findings:	26. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02/17/2011	Findings:	0.81 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

**29**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS    USGS3135613**

Agency cd:	USGS	Site no:	340346117005701
Site name:	001S001W30B002S		
Latitude:	340346	EDR Site id:	USGS3135613
Longitude:	1170057	Dec lat:	34.06279069
Dec lon:	-117.01669734	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	071
Country:	US	Land net:	Not Reported
Location map:	YUCAIPA	Map scale:	24000
Altitude:	2960.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	20		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Santa Ana. California. Area = 1680 sq.mi.		
Topographic:	Flat surface		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	19701005	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported	Daily flow data begin date:	Not Reported
Peak flow data begin date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data count:	Not Reported	Peak flow data end date:	Not Reported
Water quality data end date:	Not Reported	Water quality data begin date:	Not Reported
Ground water data begin date:	Not Reported	Water quality data count:	Not Reported
Ground water data count:	Not Reported	Ground water data end date:	Not Reported

Ground-water levels, Number of Measurements: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**K30**  
**West**  
**1/2 - 1 Mile**  
**Lower**

CA WELLS      752

**Water System Information:**

Prime Station Code:	01S/01W-30G01 S	User ID:	TAN
FRDS Number:	3610055021	County:	San Bernardino
District Number:	13	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	340300.0 1170200.0	Precision:	Undefined
Source Name:	WELL 22 - INACTIVE		
System Number:	3610055		
System Name:	YUCAIPA VALLEY WD ID-A&2		
Organization That Operates System:			
	P.O. BOX 730		
	YUCAIPA, CA 92399		
Pop Served:	34000	Connections:	7831
Area Served:	YUCAIPA		

**K31**  
**West**  
**1/2 - 1 Mile**  
**Lower**

CA WELLS      751

**Water System Information:**

Prime Station Code:	01S/01W-30E01 S	User ID:	TAN
FRDS Number:	3610055020	County:	San Bernardino
District Number:	13	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	340300.0 1170200.0	Precision:	Undefined
Source Name:	WELL 21 - ABANDONED		
System Number:	3610055		
System Name:	YUCAIPA VALLEY WD ID-A&2		
Organization That Operates System:			
	P.O. BOX 730		
	YUCAIPA, CA 92399		
Pop Served:	34000	Connections:	7831
Area Served:	YUCAIPA		

**K32**  
**West**  
**1/2 - 1 Mile**  
**Lower**

CA WELLS      783

**Water System Information:**

Prime Station Code:	01S/02W-25R02 S	User ID:	TAN
FRDS Number:	3610055019	County:	San Bernardino
District Number:	13	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340300.0 1170200.0	Precision:	Undefined
Source Name:	WELL 20		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 3610055  
System Name: YUCAIPA VALLEY WD ID-A&2  
Organization That Operates System:  
P.O. BOX 730  
YUCAIPA, CA 92399  
Pop Served: 34000  
Area Served: YUCAIPA  
Connections: 7831

---

**K33**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS 781**

**Water System Information:**

Prime Station Code:	01S/02W-25K02 S	User ID:	TAN
FRDS Number:	3610055018	County:	San Bernardino
District Number:	13	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Standby Raw
Source Lat/Long:	340300.0 1170200.0	Precision:	Undefined
Source Name:	WELL 19 - STANDBY		
System Number:	3610055		
System Name:	YUCAIPA VALLEY WD ID-A&2		
Organization That Operates System:	P.O. BOX 730		
	YUCAIPA, CA 92399		
Pop Served:	34000	Connections:	7831
Area Served:	YUCAIPA		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

### AREA RADON INFORMATION

State Database: CA Radon

#### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92399	10	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for SAN BERNARDINO COUNTY, CA

Number of sites tested: 18

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.678 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<sup>R</sup> 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

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**Casa Blanca Ranch**  
36104 Oak Glen Road  
Yucaipa, CA 92399

Inquiry Number: 3199789.3  
November 08, 2011

## Certified Sanborn® Map Report

# Certified Sanborn® Map Report

11/08/11

**Site Name:**

Casa Blanca Ranch  
36104 Oak Glen Road  
Yucaipa, CA 92399

**Client Name:**

Petra Geotechnical Inc  
3190 Airport Loop Drive  
Costa Mesa, CA 92626-0000

EDR Inquiry # 3199789.3

Contact: Jon Cain



The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Petra Geotechnical Inc 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](http://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:** Casa Blanca Ranch  
**Address:** 36104 Oak Glen Road  
**City, State, Zip:** Yucaipa, CA 92399  
**Cross Street:**  
**P.O. #** NA  
**Project:** 361-11  
**Certification #** 159A-4C8B-A5A7



Sanborn® Library search results  
Certification # 159A-4C8B-A5A7

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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.

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- Library of Congress
- University Publications of America
- EDR Private Collection

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**Casa Blanca Ranch**  
36104 Oak Glen Road  
Yucaipa, CA 92399

Inquiry Number: 3199789.4  
November 08, 2011

## EDR Historical Topographic Map Report

# 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  
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# Historical Topographic Map



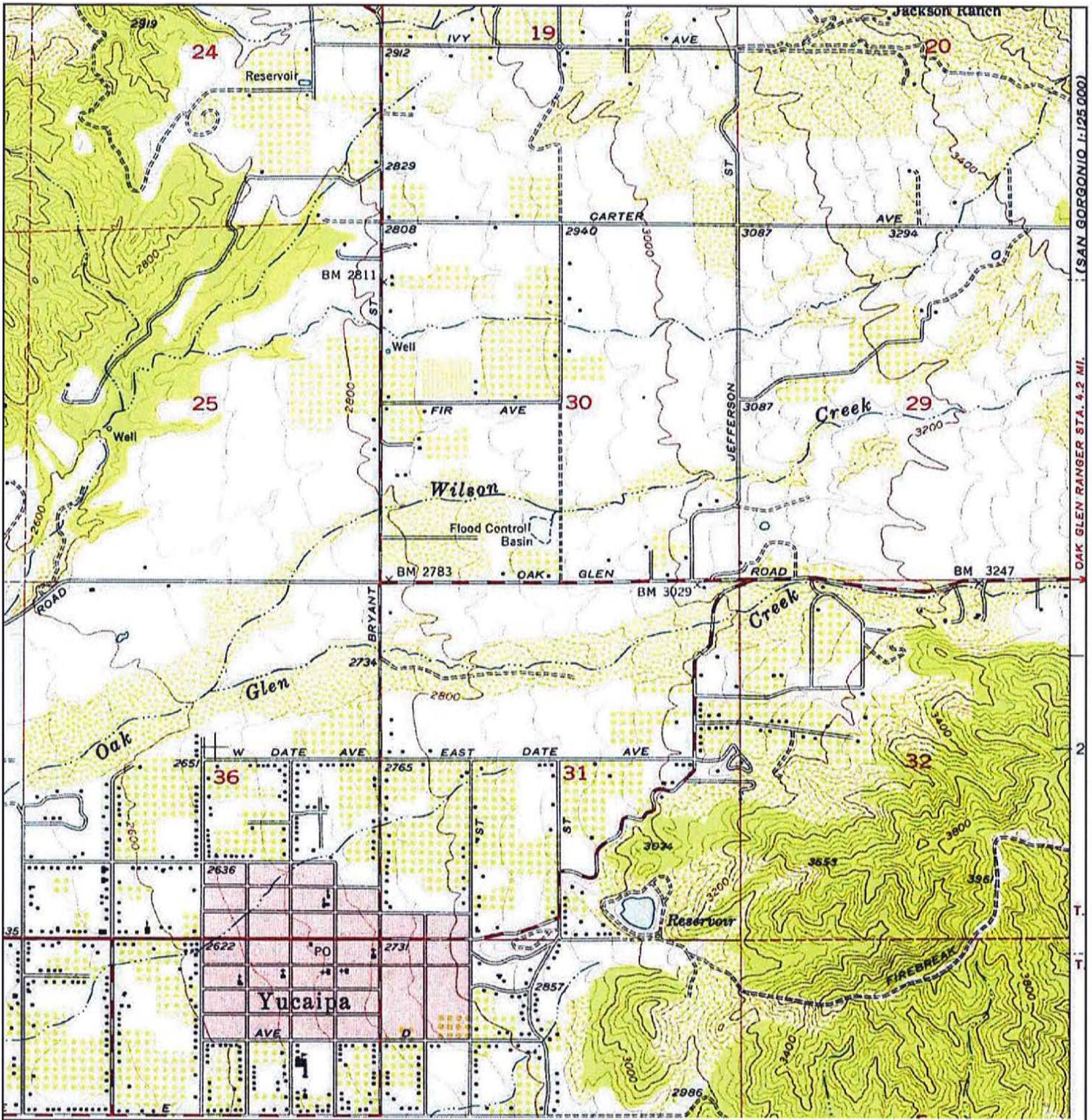
<p>N ↑</p>	<p>TARGET QUAD NAME: REDLANDS MAP YEAR: 1901</p>	<p>SITE NAME: Casa Blanca Ranch ADDRESS: 36104 Oak Glen Road Yucaipa, CA 92399 LAT/LONG: 34.0492 / -117.017</p>	<p>CLIENT: Petra Geotechnical Inc CONTACT: Jon Cain INQUIRY#: 3199789.4 RESEARCH DATE: 11/08/2011</p>
	<p>SERIES: 15 SCALE: 1:62500</p>		

# Historical Topographic Map



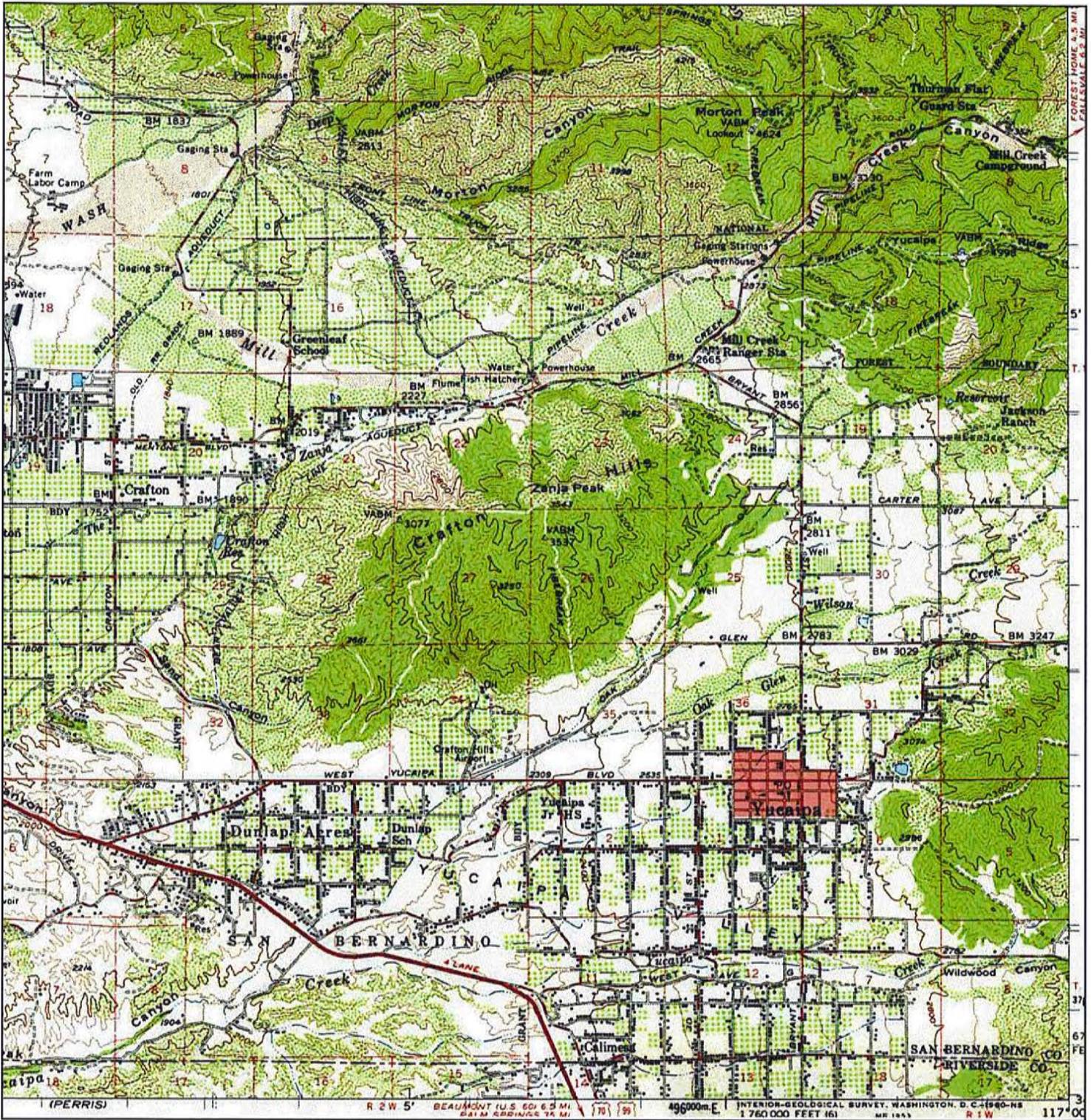
<p>N ↑</p>	<p>TARGET QUAD NAME: SOUTHERN CA SHEET 1 MAP YEAR: 1901</p>	<p>SITE NAME: Casa Blanca Ranch ADDRESS: 36104 Oak Glen Road Yucaipa, CA 92399</p>	<p>CLIENT: Petra Geotechnical Inc CONTACT: Jon Cain INQUIRY#: 3199789.4</p>
	<p>SERIES: 60 SCALE: 1:250000</p>	<p>LAT/LONG: 34.0492 / -117.017</p>	<p>RESEARCH DATE: 11/08/2011</p>

# Historical Topographic Map



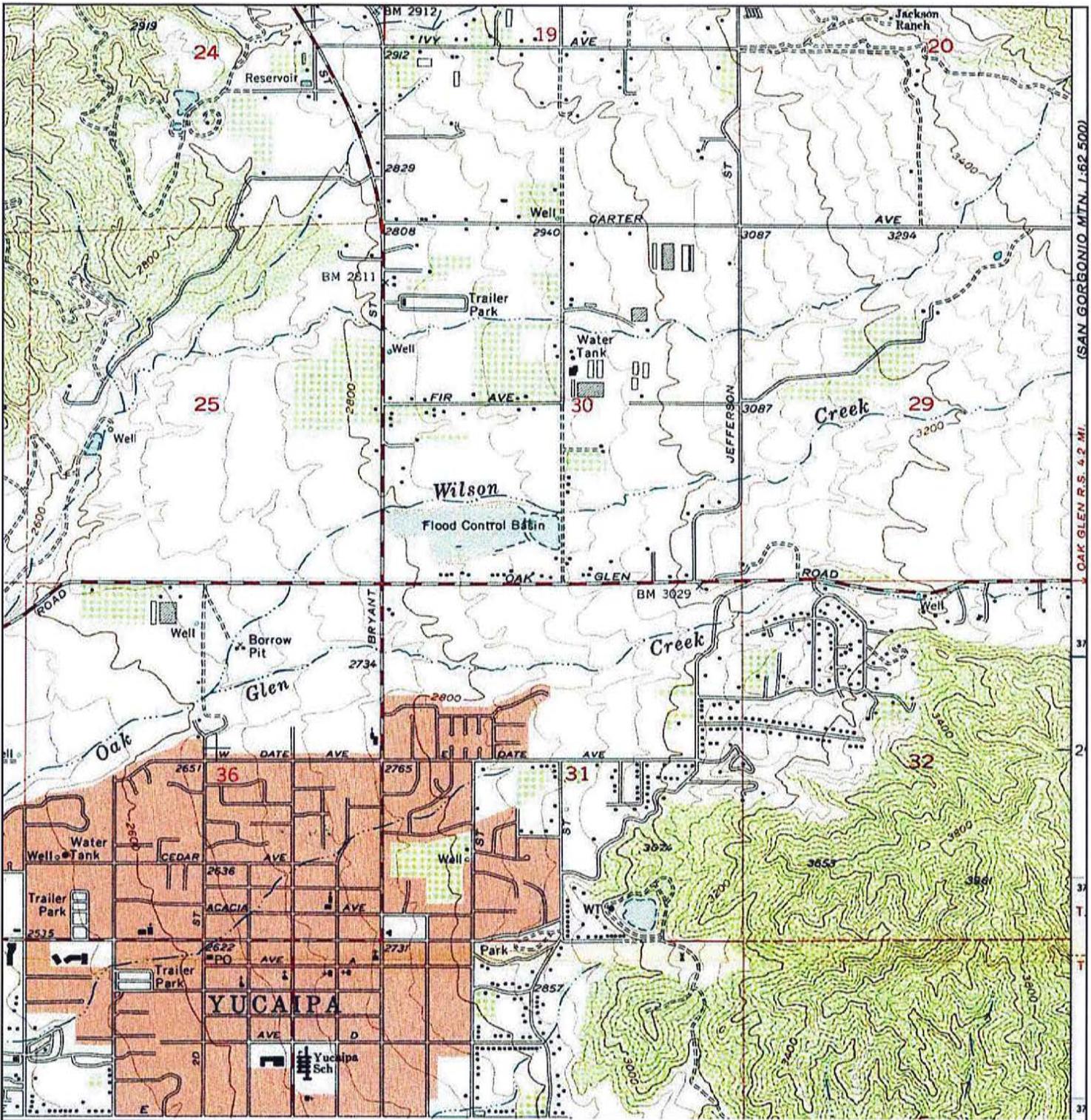
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	<p>SERIES: 7.5 SCALE: 1:24000</p>		

# Historical Topographic Map



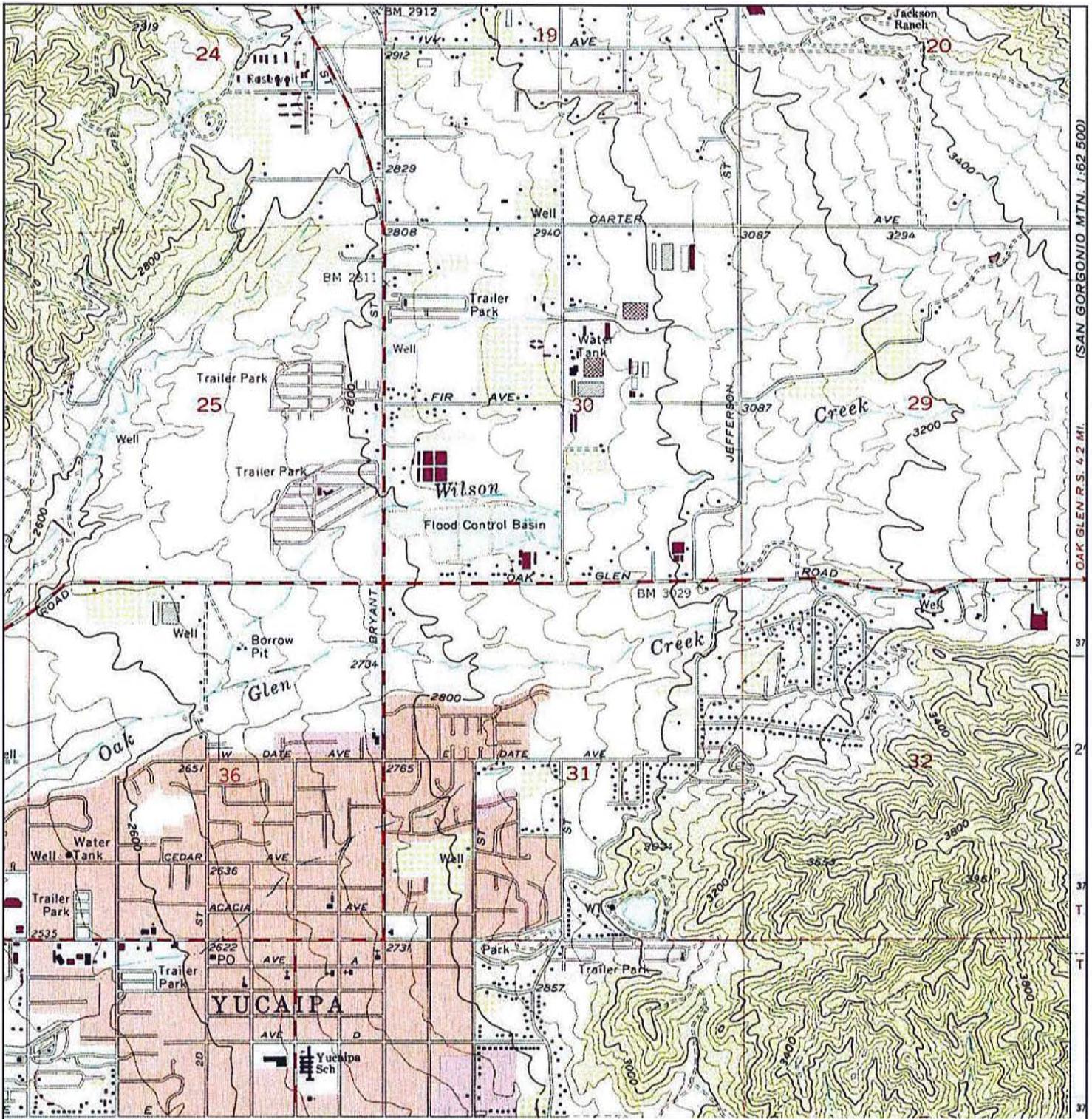
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	<p>SERIES: 15 SCALE: 1:62500</p>		

# Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: YUCAIPA MAP YEAR: 1967</p>	<p>SITE NAME: Casa Blanca Ranch ADDRESS: 36104 Oak Glen Road Yucaipa, CA 92399 LAT/LONG: 34.0492 / -117.017</p>	<p>CLIENT: Petra Geotechnical Inc CONTACT: Jon Cain INQUIRY#: 3199789.4 RESEARCH DATE: 11/08/2011</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

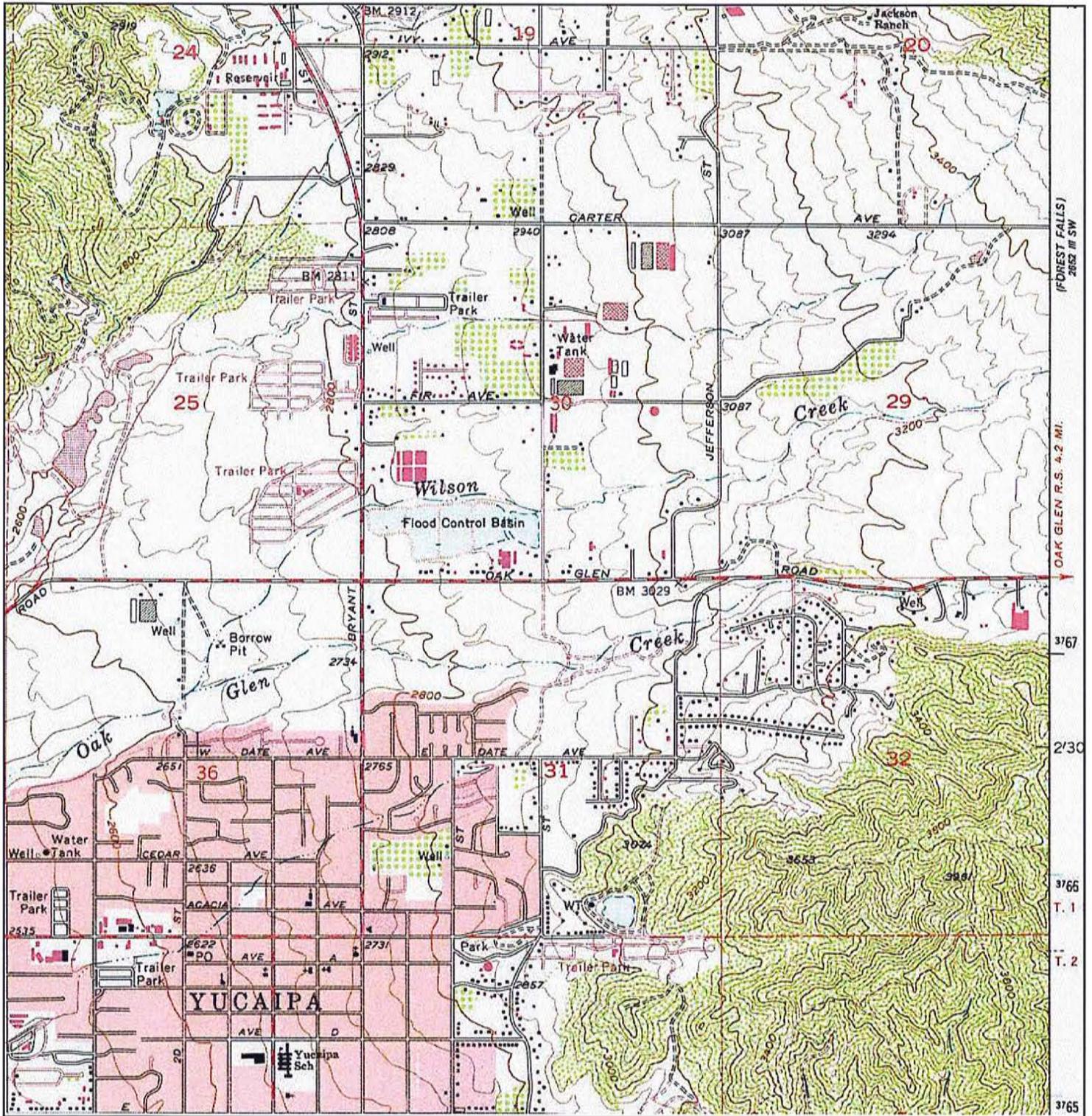
# Historical Topographic Map



OAK GLEN R.S. 4.2 MI. (SAN GORGONIO MTN. 1:62 500)

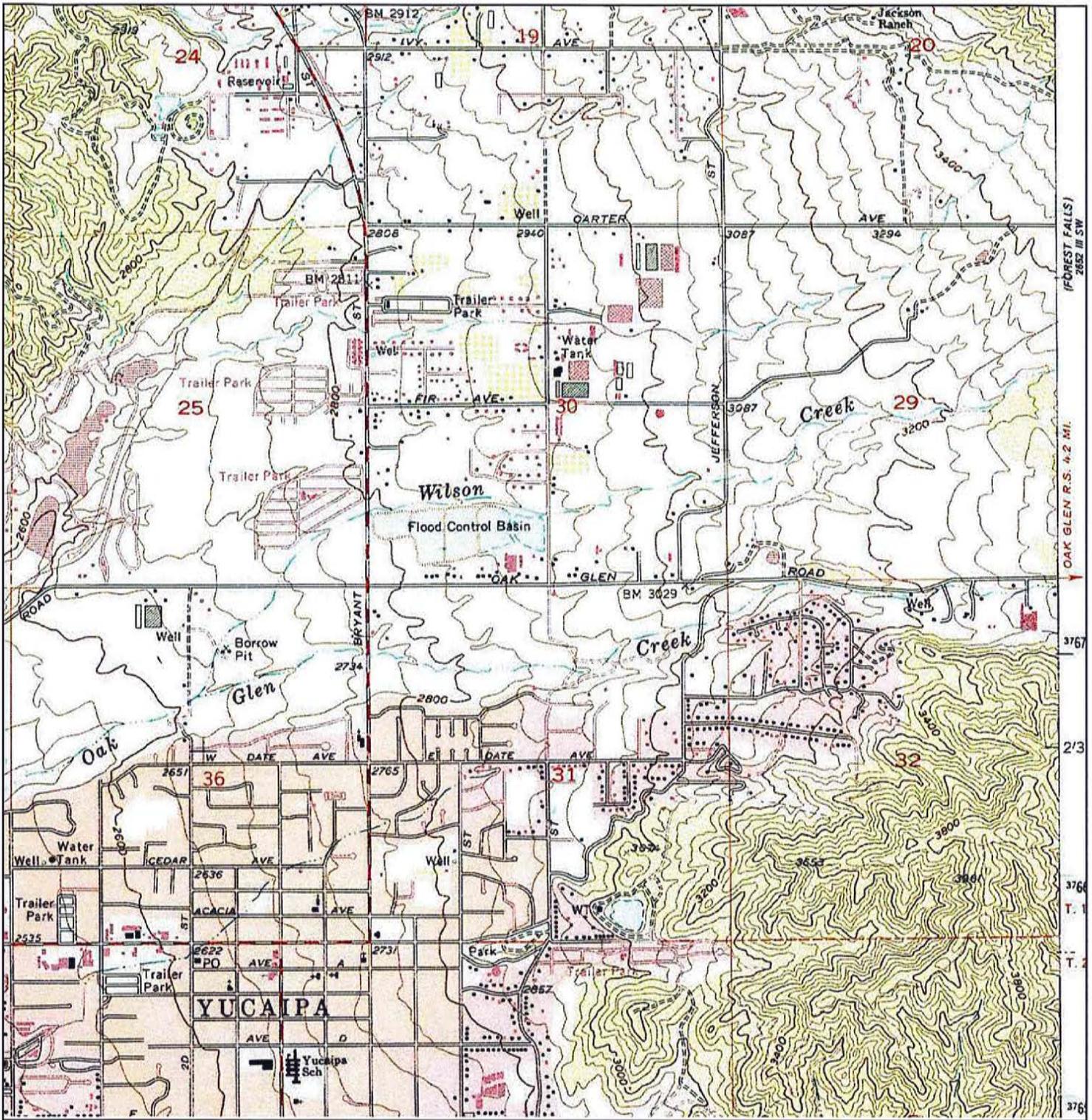
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Casa Blanca Ranch	CLIENT:	Petra Geotechnical Inc
	NAME: YUCAIPA	ADDRESS:	36104 Oak Glen Road	CONTACT:	Jon Cain
	MAP YEAR: 1973		Yucaipa, CA 92399	INQUIRY#:	3199789.4
	PHOTOREVISED: 1967	LAT/LONG:	34.0492 / -117.017	RESEARCH DATE:	11/08/2011
	SERIES: 7.5				
	SCALE: 1:24000				

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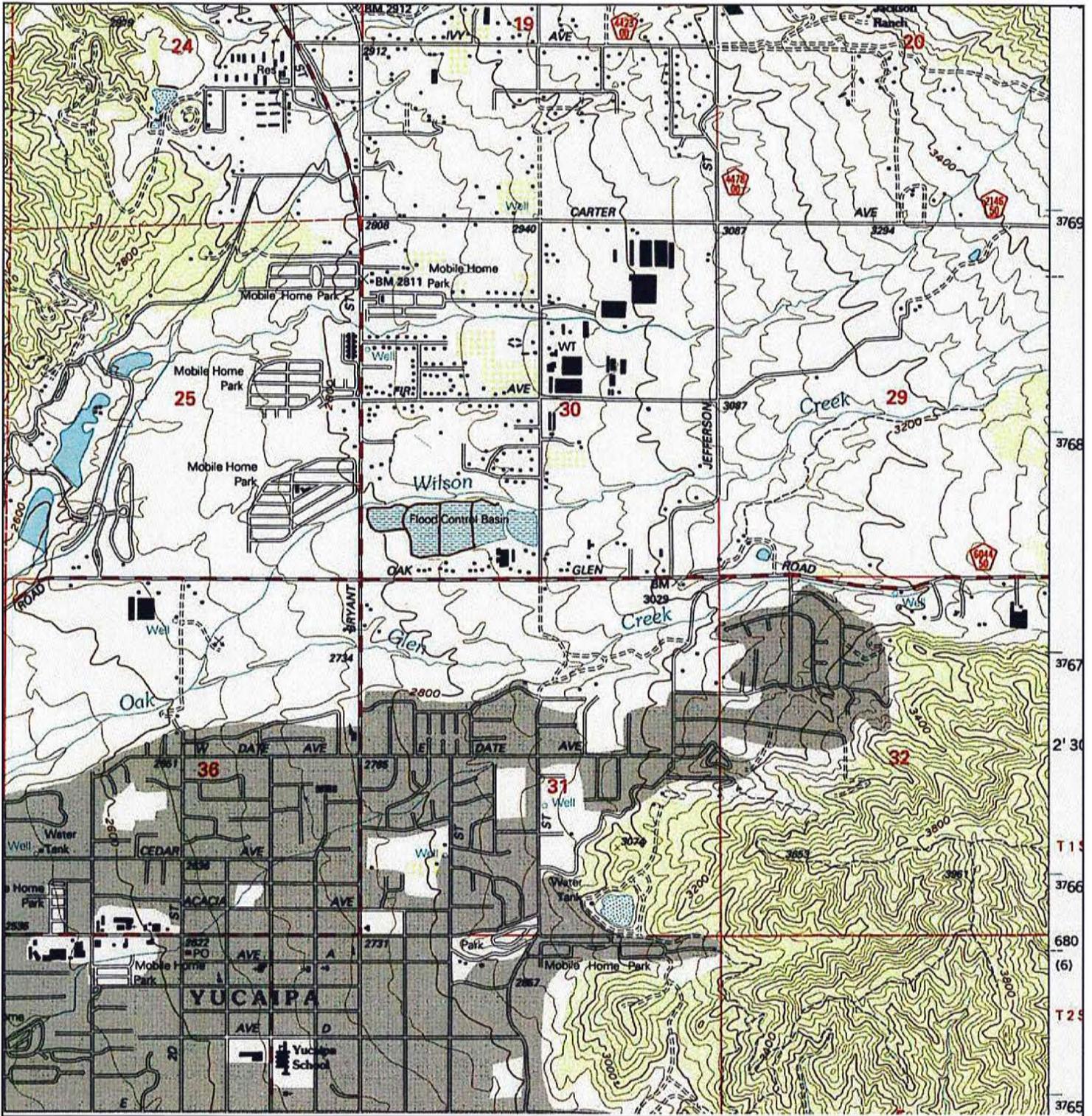
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Casa Blanca Ranch	CLIENT:	Petra Geotechnical Inc
	NAME: YUCAIPA	ADDRESS:	36104 Oak Glen Road	CONTACT:	Jon Cain
	MAP YEAR: 1980		Yucaipa, CA 92399	INQUIRY#:	3199789.4
	PHOTOREVISED: 1967	LAT/LONG:	34.0492 / -117.017	RESEARCH DATE:	11/08/2011
	SERIES: 7.5				
	SCALE: 1:24000				

# Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Casa Blanca Ranch	CLIENT:	Petra Geotechnical Inc
	NAME: YUCAIPA	ADDRESS:	36104 Oak Glen Road	CONTACT:	Jon Cain
	MAP YEAR: 1988		Yucaipa, CA 92399	INQUIRY#:	3199789.4
	PHOTOREVISED: 1967	LAT/LONG:	34.0492 / -117.017	RESEARCH DATE:	11/08/2011
	SERIES: 7.5				
	SCALE: 1:24000				

# Historical Topographic Map



N ↑	<b>TARGET QUAD</b> NAME: YUCAIPA MAP YEAR: 1996	<b>SITE NAME:</b> Casa Blanca Ranch <b>ADDRESS:</b> 36104 Oak Glen Road Yucaipa, CA 92399 <b>LAT/LONG:</b> 34.0492 / -117.017	<b>CLIENT:</b> Petra Geotechnical Inc <b>CONTACT:</b> Jon Cain <b>INQUIRY#:</b> 3199789.4 <b>RESEARCH DATE:</b> 11/08/2011
	SERIES: 7.5 SCALE: 1:24000		





**Casa Blanca Ranch**

36104 Oak Glen Road

Yucaipa, CA 92399

Inquiry Number: 3199789.5

November 10, 2011



## The EDR Aerial Photo Decade Package



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Milford, CT 06461  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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**Date EDR Searched Historical Sources:**

Aerial Photography November 10, 2011

**Target Property:**

36104 Oak Glen Road

Yucaipa, CA 92399

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1938	Aerial Photograph. Scale: 1"=555'	Flight Year: 1938	Laval
1953	Aerial Photograph. Scale: 1"=555'	Flight Year: 1953	Southwestern
1966	Aerial Photograph. Scale: 1"=555'	Flight Year: 1966	Universe
1980	Aerial Photograph. Scale: 1"=600'	Flight Year: 1980	AMI
1990	Aerial Photograph. Scale: 1"=666'	Flight Year: 1990	USGS
1995	Aerial Photograph. Scale: 1"=500'	/Composite DOQQ - acquisition dates: 1995	EDR
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	EDR

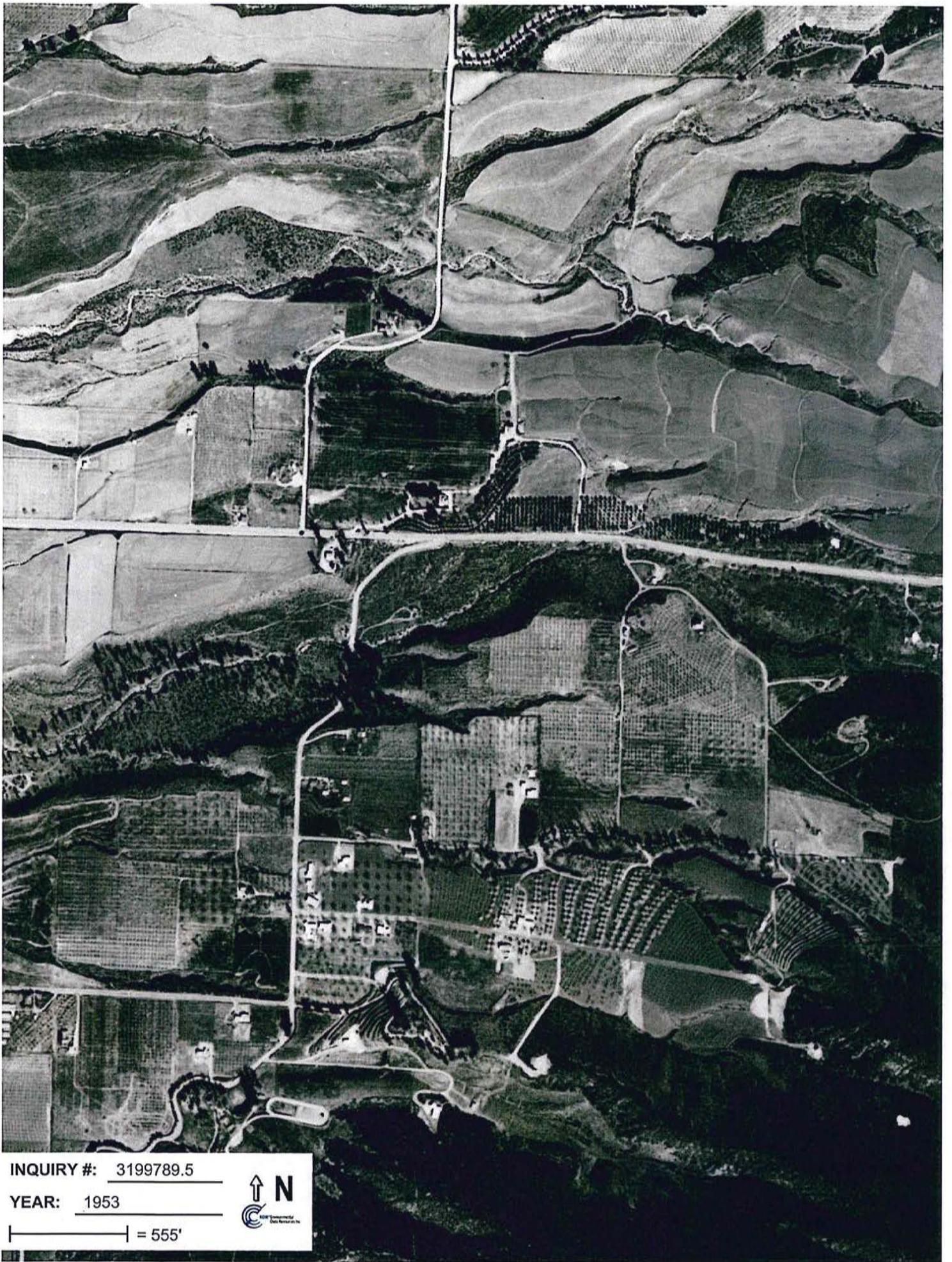


INQUIRY #: 3199789.5

YEAR: 1938

| = 555'





INQUIRY #: 3199789.5

YEAR: 1953

 = 555'



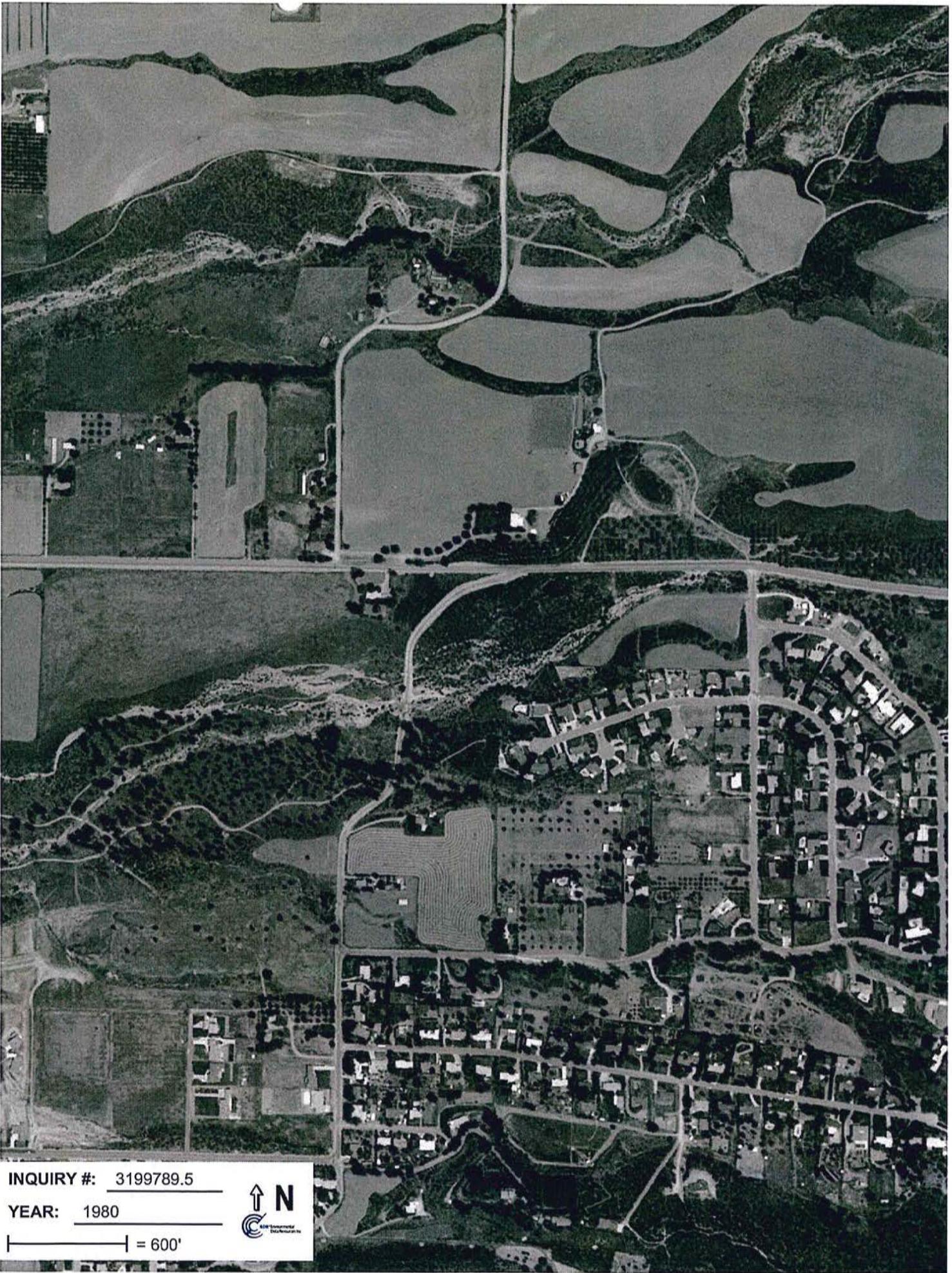


INQUIRY #: 3199789.5

YEAR: 1966

| = 555'





INQUIRY #: 3199789.5

YEAR: 1980

| = 600'





INQUIRY #: 3199789.5

YEAR: 1990

| = 666'





INQUIRY #: 3199789.5

YEAR: 1995

| = 500'





INQUIRY #: 3199789.5

YEAR: 2005

| = 500'



**Casa Blanca Ranch**  
36104 Oak Glen Road  
Yucaipa, CA 92399

Inquiry Number: 3199789.6  
November 14, 2011

## The EDR-City Directory Abstract

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

*Thank you for your business.*  
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with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

### 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.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2008	HAINES & COMPANY INC.	X	X	X	-
1995	HAINES & COMPANY INC.	X	X	X	-
1984	HAINES & COMPANY INC.	X	X	X	-
1974	HAINES & COMPANY INC.	X	X	X	-

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

36104 Oak Glen Road  
Yucaipa, CA 92399

### FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	HAINES & COMPANY INC.
1995	Residential	HAINES & COMPANY INC.
1984	Residential	HAINES & COMPANY INC.
1974	Residential	HAINES & COMPANY INC.

## FINDINGS

### ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

#### Oak Glen Road

##### Oak Glen Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	No other addresses (36000-36299) block Oak Glen Road	HAINES & COMPANY INC.
1995	No other addresses (36000-36299) block Oak Glen Road	HAINES & COMPANY INC.
1984	No other addresses (36000-36299) block Oak Glen Road	HAINES & COMPANY INC.
1974	No other addresses (36000-36299) block Oak Glen Road	HAINES & COMPANY INC.

##### 36009 Oak Glen Road

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	HAINES & COMPANY INC.
1995	Residential	HAINES & COMPANY INC.
1984	Residential	HAINES & COMPANY INC.
1974	Residential	HAINES & COMPANY INC.

#### Pendleton Rd

##### 11473 Pendleton Rd

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	HAINES & COMPANY INC.
1995	No Return	HAINES & COMPANY INC.
1984	No Return	HAINES & COMPANY INC.
1974	Residential	HAINES & COMPANY INC.

##### 11492 Pendleton Rd

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	HAINES & COMPANY INC.

## FINDINGS

### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
Oak Glen Road	No Years Found
11473 Pendleton Rd	No Years Found
11492 Pendleton Rd	1995, 1984, 1974
36009 Oak Glen Road	No Years Found

**Casa Blanca Ranch**  
36104 Oak Glen Road  
Yucaipa, CA 92399

Inquiry Number: 3199789.7  
November 22, 2011

## The EDR Environmental LienSearch™ Report

## 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.

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## The EDR Environmental LienSearch™ Report

### TARGET PROPERTY INFORMATION

#### ADDRESS

36104 Oak Glen Road  
Casa Blanca Ranch  
Yucaipa, CA 92399

#### RESEARCH SOURCE

##### Source 1:

San Bernardino recorder  
San Bernardino, CA

#### PROPERTY INFORMATION

##### Deed 1:

Type of Deed:	Deed
Title is vested in:	San Bernardino County Museum Assoc
Title received from:	BNY Mellon
Deed Dated	6/15/2011
Deed Recorded:	6/23/2011
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	see exhibit
Miscellaneous Comments:	na
<b>Legal Description:</b>	see exhibit
<b>Legal Current Owner:</b>	San Bernardino County Museum Assoc
<b>Property Identifiers:</b>	0321-082-15-0000
<b>Comments:</b>	see exhibit

##### Deed 2:

Type of Deed:	Deed
Title is vested in:	Boston Safe Deposit & Trust Company
Title received from:	Clinton L Cogbill & Sandra Warde
Deed Dated	6/2/1997
Deed Recorded:	9/12/1997
Book:	NA
Page:	na
Volume:	na
Instrument:	na
Docket:	NA
Land Record Comments:	

## The EDR Environmental LienSearch™ Report

Miscellaneous Comments: see exhibit  
na

Legal Description: see exhibit

Legal Current Owner: Boston Safe Deposit & Trust Company

Property Identifiers: 0321-101-12-0000, 0321-101-02-0000

Comments: see exhibit

### ENVIRONMENTAL LIEN

Environmental Lien: Found  Not Found

### OTHER ACTIVITY AND USE LIMITATIONS (AULs)

AULs: Found  Not Found

**Deed Exhibit 1**



**DENNIS DRAEGER**  
ASSESSOR - RECORDER - CLERK  
826 First American Title - Rancho

RECORDING REQUESTED BY:

AND WHEN RECORDED MAIL TO:  
AND MAIL TAX STATEMENT TO

San Bernardino County Museum  
Association  
2024 Orange Tree Lane  
Redlands, CA 92374

Order No. 3741702.18  
Parcel No. 0321-082-15-0000

Doc #: 2011-0254402



Titles:	1	Pages:	4
Fees		24.00	
Taxes		.00	
Other		.00	
PAID		24.00	

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**QUITCLAIM DEED**  
**(Confirming)**

THE UNDERSIGNED GRANTOR(S) DECLARE(S) THAT DOCUMENTARY TRANSFER TAX IS  
\$None -

**This is a bona fide gift and the Grantor received nothing in return - R&T 11911**

\_\_\_\_\_ Computed on the consideration or value of property conveyed; OR  
\_\_\_\_\_ Computed on the consideration or value less liens or encumbrances remaining at the time of sale.  
\_\_\_\_\_ unincorporated area \_\_\_\_\_ City of Yucaipa and

**RECITALS**

- A. WHEREAS, all or a portion of the real property described herein was originally vested in the Frances M. Webster Trust dated July 9, 1981 (the "Trust").
- B. WHEREAS, pursuant to the terms of the Trust, the San Bernardino County Museum Association received a bequest of a fifty percent (50%) undivided interest in the Property;
- C. WHEREAS, previously the Trust transferred a fifty percent (50%) undivided interest in the property to (i) John W. Webster, as to a twenty-five percent (25%) undivided interest, and (ii) Thomas C. Webster, Jr., as to a twenty-five percent (25%) undivided interest.
- D. WHEREAS, pursuant to that certain Quitclaim Deed dated July 7, 1997 and recorded July 9, 1998 as document number 1998 0265454, The Atwood Family Trust u/d/t dated March 4, 1989 purported to transfer a fifty percent (50%) undivided interest to the San Bernardino County Museum Association.
- E. WHEREAS, the Trust desires to confirm the current status of title to the real property as vested (i) a fifty percent (50%) undivided interest in the San Bernardino County Museum Association, (ii) a twenty-five percent (25%) undivided interest in John W. Webster, and (iii) a twenty-five percent (25%) undivided interest in Thomas C. Webster, Jr.

**NOW, THEREFORE**, the undersigned trustee confirms the current state of title and executes this Quitclaim Deed in furtherance thereof.

FOR A VALUABLE CONSIDERATION, received of which is hereby acknowledge,

**BNY MELLON, NATIONAL ASSOCIATION, SUCCESSOR IN INTEREST BY MERGER TO  
BOSTON SAFE DEPOSIT AND TRUST COMPANY OF CALIFORNIA, AS SUCCESSOR  
TRUSTEE OF THE FRANCES M. WEBSTER TRUST DATED JULY 9, 1981**

hereby REMISE, RELEASE AND QUITCLAIM to

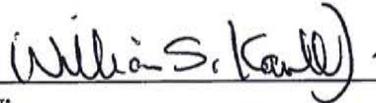
**SAN BERNARDINO COUNTY MUSEUM ASSOCIATION**

the real property in the City of **Yucaipa** County of **San Bernardino**, State of California described as:

The land as shown on that certain Certificate of Compliance No. 08-084/LLA B evidenced by document recorded September 11, 2008, as Instrument No. 08-413786 of Official Records, as more fully described on Exhibit "A" attached hereto and made a part hereof.

Dated: June 15, 2011

BNY Mellon, National Association, Successor in interest by Merger to Boston Safe Deposit and Trust Company of California, as Successor Trustee of the Frances M. Webster Trust dated July 9, 1981



By:

Name:

**William S. Kaul, Jr.**

Title:

**Vice President**

**NOTARY PAGE ATTACHED HERETO AND MADE A PART HEREOF**

NOTARY PAGE FOR THAT CERTAIN QUITCLAIM DEED DATED JUNE 15, 2001

COMMONWEALTH OF MASSACHUSETTS )

) ss

COUNTY OF SUFFOLK )

On June 21, 2011, before me Matthew Ginty  
the undersigned, a Notary Public in and for said Commonwealth personally appeared  
William S. Kaul, Jr., Vice President who proved to me  
on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to  
the within instrument and acknowledged to me that he/she/they executed the same in  
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the  
instrument the person(s), or the entity upon behalf of which the person(s) acted, executed  
the instrument.

I certify under PENALTY OF PERJURY under the laws of the Commonwealth of Massachusetts that the  
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

  
**MATTHEW GINTY**  
**NOTARY PUBLIC**  
My commission expires Oct. 10, 2014

**EXHIBIT "A"**

**LEGAL DESCRIPTION**

Real property in the City of Yucaipa, County of San Bernardino, State of California, described as follows:

THE LAND AS SHOWN ON THAT CERTAIN CERTIFICATE OF COMPLIANCE NO. 08-084/LLA B EVIDENCED BY DOCUMENT RECORDED SEPTEMBER 11, 2008 AS INSTRUMENT NO. 08-413786 OF OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED IN THE DOCUMENT AS FOLLOWS:

ALL THAT PORTION OF SECTION 30, TOWNSHIP 1 SOUTH, RANGE 1 WEST, SBM, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF BLOCK D OF YUCAIPA COLONY SUBDIVISION NO. 1 AS PER PLAT RECORDED IN BOOK 16 OF MAPS, PAGES 65 & 66, RECORDS OF SAID COUNTY, SAID POINT BEING THE INTERSECTION OF A 60 FOOT WIDE COUNTY ROAD, CURRENTLY KNOWN AS CHERRY CROFT DRIVE, AND THE EAST LINE OF SECTION 30, AS SHOWN ON SAID MAP, SAID POINT ALSO BEING ON THE CENTERLINE OF JEFFERSON STREET; THENCE SOUTH 0° 13' 24" EAST, ALONG THE EAST LINE OF SAID SECTION 30 AND THE SOUTHERLY EXTENSION OF JEFFERSON STREET, A DISTANCE OF 433.06 FEET TO THE TRUE POINT OF BEGINNING, SAID POINT BEING THE BEGINNING OF A CURVE, THE RADIUS POINT OF WHICH BEARS SOUTH 89° 46' 36" WEST, A DISTANCE OF 300.00 FEET; THENCE SOUTHWESTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 68° 28' 01", A DISTANCE OF 358.49 FEET TO THE BEGINNING OF A REVERSE CURVE, THE RADIUS POINT OF WHICH BEARS SOUTH 21° 45' 23" EAST, A DISTANCE OF 300.00 FEET; THENCE SOUTHWESTERLY ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 68° 22' 34", A DISTANCE OF 358.02 FEET; THENCE SOUTH 0° 07' 58" EAST, A DISTANCE OF 100.00 FEET TO THE CENTERLINE INTERSECTION OF OAK GLEN ROAD AND PENDLETON AVENUE, 40' WIDE, AS SHOWN ON TRACT NO. 10318 RECORDED IN BOOK 205 OF MAPS, PAGES 12 THROUGH 14 INCLUSIVE, RECORDS OF SAID COUNTY; THENCE NORTH 89° 52' 02" EAST, ALONG THE CENTERLINE OF OAK GLEN ROAD AND THE SOUTH LINE OF SAID SECTION 30, A DISTANCE OF 379.93 FEET TO THE SOUTHEAST CORNER OF SECTION 30; THENCE NORTH 0° 13' 24" WEST ALONG THE EAST LINE OF SECTION 30, A DISTANCE OF 658.25 FEET, MORE OR LESS, TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH THAT PORTION OF SECTION 29, TOWNSHIP 1 SOUTH, RANGE 1 WEST, SBM, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 29; THENCE NORTH 89° 54' 41" EAST, ALONG THE SOUTH LINE OF SECTION 29, A DISTANCE OF 160.00 FEET; THENCE NORTH 0° 13' 24" WEST, PARALLEL WITH THE WEST LINE OF SECTION 29, A DISTANCE OF 658.63 FEET; THENCE SOUTH 89° 46' 36" WEST, A DISTANCE OF 160.00 FEET TO THE WEST LINE OF SAID SECTION; THENCE SOUTH 0° 13' 24" EAST ALONG THE WEST LINE OF SAID SECTION, A DISTANCE OF 658.25 FEET TO THE TRUE POINT OF BEGINNING.

APN: 0321-082-15

**Deed Exhibit 2**

RECORDING REQUESTED BY

RECORDING REQUESTED BY  
UNITED TITLE COMPANY

AND WHEN RECORDED MAIL TO:

Frances M. Webster  
c/o John Webster  
2082 SE Bristol #203  
Newport Beach, CA 92660

Order No. 4251957-35 Escrow No. 1650NT

A.P.N. See attached legal description

Recorded in Official Records, County of  
San Bernardino, Errol J. Mackzum, Recorder

Doc No. 19970334381  
08:00am 09/12/97

United Title

# 603

1	2	3	4	5	6	7	8	9	0
PG	FEE	APF	GIMS	PH CPY	CRT CPY	ADD NM	PEN PR	PCOR	
3	7	6							
		10	537	531.30			603	W	
NON ST	LN	SVY	CIT-CO	TRANS TAX	DA	CHRG	EXAM		

**GRANT DEED**

The undersigned grantor(s) declare(s)  
that the documentary transfer tax is \$ 531.30 County, \$ City, and is  
 computed on the full value of the interest or property conveyed, or is  
 computed on the full value less the value of liens or encumbrances remaining thereon at the time of sale.  
 unincorporated area  city of Yucaipa and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, CLINTON L. COGBILL and SANDRA WARDE, Co-Trustees of the Atwood Family Trust, dated March 4, 1989

hereby GRANT(S) to BOSTON SAFE DEPOSIT AND TRUST COMPANY OF CALIFORNIA, as Successor Trustee of the Frances M. Webster Trust dated July 9, 1981

the following described real property in the City of Yucaipa  
County of San Bernardino, State of California:

**PARCEL 1:**

That portion of Section 30, Township 1 South, Range 1 West, San Bernardino Meridian, according to the Official Plat thereof, more fully described on Exhibit attached hereto and made a part hereof.

Dated June 2, 1997

STATE OF CALIFORNIA }  
COUNTY OF Blaine } ss.  
On June 16, 1997 before me,  
Judith M. Nicholson, a notary public,  
personally appeared Sandra Warde

Clinton L. Cogbill  
Clinton L. Cogbill, Trustee  
Sandra Warde  
Sandra Warde, Trustee

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature Judith M. Nicholson (This area for official notarial seal)  
Residing in Ho. Reg. Commission Expires 8/1/99  
MAIL TAX STATEMENTS TO:

GD 400 (1/94) Name Address above Street Address City & State

37703340-39

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

No. 5907

State of CALIFORNIA

County of SAN BERNARDINO

On JUNE 12, 1997 before me, RUDOLPH R QUIROZ, NOTARY PUBLIC

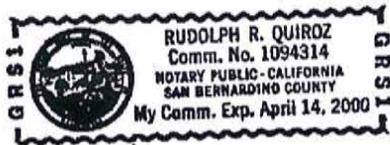
DATE

NAME, TITLE OF OFFICER - E. G., "JANE DOE, NOTARY PUBLIC"

personally appeared CLINTON L COGBILL, TRUSTEE

NAME(S) OF SIGNER(S)

personally known to me - OR -  proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Rudolph R Quiroz  
SIGNATURE OF NOTARY

**OPTIONAL**

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

**CAPACITY CLAIMED BY SIGNER**

INDIVIDUAL  
 CORPORATE OFFICER  
\_\_\_\_\_  
TITLE(S)

PARTNER(S)       LIMITED  
 ATTORNEY-IN-FACT       GENERAL  
 TRUSTEE(S)  
 GUARDIAN/CONSERVATOR  
 OTHER: \_\_\_\_\_

**DESCRIPTION OF ATTACHED DOCUMENT**

GRANT DEED  
TITLE OR TYPE OF DOCUMENT

2  
NUMBER OF PAGES

JUNE 2, 1997  
DATE OF DOCUMENT

**SIGNER IS REPRESENTING:**  
NAME OF PERSON(S) OR ENTITY(IES)

\_\_\_\_\_  
\_\_\_\_\_



SIGNER(S) OTHER THAN NAMED ABOVE

EXHIBIT "I"

PARCEL 1: aka: 321-082-08

THAT PORTION OF SECTION 30, TOWNSHIP 1 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCAIPA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SECTION 30;  
THENCE WEST 689.00 FEET;  
THENCE NORTH 800.00 FEET;  
THENCE EAST 689.00 FEET;  
THENCE SOUTH 800.00 FEET TO THE POINT OF BEGINNING.

PARCEL 2: aka: 321-082-07

THE NORTH 298.00 FEET OF BLOCK D OF YUCAIPA VALLEY COLONY SUBDIVISION NO. 1, IN THE CITY OF YUCAIPA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 16, PAGE(S) 65 AND 66, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 3: aka: 321-101-11

THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 29, TOWNSHIP 1 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCAIPA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

PARCEL 4: aka: 321-101-12 .

THE NORTH HALF OF THE SOUTHWEST QUARTER OF SECTION 29, TOWNSHIP 1 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCAIPA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.

PARCEL 5: aka: 321-101-02

THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 29, TOWNSHIP 1 SOUTH, RANGE 1 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCAIPA, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF.



# APPENDIX D

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INTERVIEWS



**PHASE I CLIENT QUESTIONNAIRE**

The purpose of this questionnaire is to obtain information from the client regarding the Property.

Date Sent to Client 12/14/11 Date Received from Client \_\_\_\_\_

**A. SITE INFORMATION**

- Property Name: CASA BLANCA RANCH
- Location (If a map is available, please include it): CITY OF YUCAIPA, ARMS:  
0321-082-15-0000, 0321-101-02-0000, 0321-101-12-0000  
0321-101-20-0000
- Why is the Phase I required? (Development as a residential parcel, protection from CERCLA liability, etc?): ACQUISITION DUE DILIGENCE FOR RESIDENTIAL DEVELOPMENT
- Is there an Interview Contact for this job? (A current owner, operator, or someone with knowledge of the history and/or processes occurring at the site).  Yes  No

If yes, please provide the following information:

Person to be interviewed: TOM WEBSTER  
Title/Company: OWNER  
Phone number and/or email address: 928.453.2917

- Do you have any reports for this job (such as previous Phase I's, biology reports, cultural resource reports, geotechnical reports, etc).  Yes  No

If yes, please provide them for Petra to review. Date Received from Client \_\_\_\_\_

- As part of our investigation, Petra contacts local agencies to obtain miscellaneous information about the project site such as previous investigations, zoning, and flood zone. Do you have any current restrictions regarding Petra contacting these agencies?  Yes  No

If yes, please contact us to discuss further.

**B. SITE ACCESS**

- Does Petra have access to the property at this time?  Yes  No
- Are there any access restrictions such as a locked gate or required insurance forms?  
PETRA HAS PROVIDED KEYS TO GATES
- Is there a site manager that Petra needs to contact prior to visiting the site?  
NONE

*[Handwritten Signature]*  
1-3

**C. LANDOWNER LIABILITY PROTECTIONS**

In order to qualify for one of the Landowner Liability Protections offered by the Small Business liability Relief and Brownfields Revitalization of 2001 (the "Brownfields Amendments"), the client must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that "all appropriate inquiry" is not complete.

1. Are you aware of any environmental clean-up liens against the property that are filed or recorded under federal, tribal, state, or local law? (40 CFR 312.25)  Yes  No

If no, have you or will you conduct a search for any environmental cleanup liens against the property that are filed or recorded in a registry.  Yes  No

If yes, please provide Petra with this information.

LAUNDERS TITLE PROVIDED  
PRELIMINARY TITLE REPORTS CONIGED TO PETRA.

If no, do you require Petra to complete this task?  Yes  No

2. Are you aware of any activity and land use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place on or for the site and/or have been filed or that environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? (40 CFR 312.25)  Yes  No

If no, have you or will you conduct a search for any AULs against the property that are filed or recorded in a registry.  Yes  No

If yes, please provide Petra with this information. \_\_\_\_\_

If no, do you required Petra to complete this task?  Yes  No

3. As the user of this Environmental Site Assessment, do you have any specialized knowledge or experience related to the property 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 potential chemicals and processes used by this type of business?  Yes  No

If yes, please provide Petra with this information. \_\_\_\_\_

*D. Waldy*  
2-3

4. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?  Yes  No

If you conclude that there is a difference, have you considered whether the lower purchase price is because of any environmental concerns are known or believed to be present at the property?  
 Yes  No

If yes, please provide Petra with this information. \_\_\_\_\_  
\_\_\_\_\_

5. Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of hazardous materials/chemical releases or threatened releases? For example,

- A. Do you know the past uses of the property?  Yes  No

If yes, please provide Petra with this information. THE PROPERTY HAS A HISTORY OF AGRICULTURAL USES.

- B. Do you know of specific chemicals that are present or once were present at the property?

Yes  No  
If yes, please provide Petra with this information. SOME SOIL STAINING IS VISIBLE AROUND THE SHOP AND PACKING SHED.

- C. Do you know of spills or other chemical releases that have taken place at the property?

Yes  No  
If yes, please provide Petra with this information. SEE "B" ABOVE

- D. Do you know of any environmental cleanups that have taken place at the property or adjacent properties?  Yes  No

If yes, please provide Petra with this information. \_\_\_\_\_  
\_\_\_\_\_

6. As the user of this ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes  No  
If yes, please provide Petra with this information. SEE "B" ABOVE

*W. Kelly*  
3-3

**PETRA GEOTECHNICAL, INC.**

*Environmental Division*

3185-A Airway Avenue, Costa Mesa, CA 92626

\* Phone (714) 549-8921

\* Fax (714) 540-7572

**PHASE I INTERVIEW QUESTIONNAIRE**

*The purpose of this questionnaire is to obtain information from knowledgeable individuals regarding the Subject Site. This questionnaire will become part of the investigation report.*

**A. SITE INFORMATION**

Project Number: \_\_\_\_\_

Property Location: 36104 Oak Glen  
Road, Yorba Linda, CA 92399

Property Name: Casa Blanca Ranch  
(open land)

**B. INTERVIEW INFORMATION**

Date/Time: 11-10-11 / 3:00 P.M.

<sup>-1:57</sup>

In Person

Interviewer: \_\_\_\_\_

By Telephone, Number: \_\_\_\_\_

Person Interviewed: Tom Webster

By Facsimile, Number: \_\_\_\_\_

Title/Company: \_\_\_\_\_

Email: \_\_\_\_\_

1. What is your relationship to the property? Co-owner

2. Do you have good knowledge regarding the uses and physical characteristics of the property?  
 Yes  
 No If not, who does? \_\_\_\_\_ Phone Number: \_\_\_\_\_

3. Do you have good knowledge regarding the activities/processes conducted at the property?  
 Yes  
 No If not, who does? \_\_\_\_\_ Phone Number: \_\_\_\_\_

**C. PROPERTY INFORMATION**

1. To the best of your knowledge, what are the current and past uses of the property? Please describe with approximate dates.

Farming / Ranching / Residence -  
1907 to present day

**PHASE I INTERVIEW QUESTIONNAIRE**

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2. To your knowledge, are there:

Hazardous substances present on the site?  Yes  No  
 Petroleum products present on the site?  Yes  No

If the preceding items are present, are there indications of any of the following:

An existing release?  Yes  No  
 A past release?  Yes  No  
 A threat of their release?  Yes  No

If yes to any of the above, please describe: Used petroleum from farm machinery — currently being removed

3. Are you aware of the presence of any of the following either currently or previously on the property or any nearby properties:

Potential Recognized Environmental Conditions	Site		Adjacent	
Hazardous substances?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Petroleum products?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Chemicals?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Asbestos or asbestos-containing materials?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Lead-based paints?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Underground storage tanks?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Above-ground storage tanks?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Oil Wells?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Sumps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If yes to any of the above, please describe: Used petroleum from farm machinery. Unsure of lead based paints. Unsure of underground storage tanks

4. Are you aware of any current or previous uses of the property or nearby properties that would suggest the presence of the foregoing items, substances, or materials?  Yes  No

If yes to any of the above, please describe: \_\_\_\_\_

**PHASE I INTERVIEW QUESTIONNAIRE**

Page 3

5. To your knowledge, are there any utility corridors on the property?  Yes  No

If yes, please describe: \_\_\_\_\_

6. To your knowledge, are you aware of any of the following on the property:

Water Wells?  Yes  No      Disposal Wells?  Yes  No  
 Clarifiers?  Yes  No      Underground Irrigation Systems?  Yes  No

If yes to any of the above, please describe: Agricultural Well (inactive)  
2 water tunnels. Remainder of irrigation  
system for Apricot/Peach orchard (inactive)

7. Are there any occupants on the property?  Yes  No

If yes, please describe: \_\_\_\_\_

8. Do you have good knowledge regarding the identity of any existing documents relating to the property?

Yes  
 No If not, who does? \_\_\_\_\_ Phone Number: \_\_\_\_\_

9. To your knowledge, do any of the following documents exist with respect to the subject property? If yes, please name the document and comment upon whether it is available for review.

Document	Yes	No	Name/Availability
Environmental site assessment reports?			
Environmental audit reports?			
Environmental permits?			
Storage tank registrations?			
Material safety data sheets (MSDS)?			
Community right-to-know plans?			
Safety plans?			
Spill Prevention, Countermeasure, & Control Plans?			
Illness and Injury Prevention Plans?			
Reports regarding hydrogeologic conditions on the property or surrounding area?			
Hazardous waste generator notices or reports?			
Geotechnical studies?			

**PHASE I INTERVIEW QUESTIONNAIRE**

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10. To your knowledge, do any of the following exist with respect to the subject property?

a. Notices or other correspondence from any government agency relating to past or current violations of environmental laws?  Yes  No

If yes, please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b. Notices or other correspondence from any government agency relating to environmental liens encumbering the property?  Yes  No

If yes, please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c. Pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances, or petroleum products in, on, or from the property?  Yes  No

If yes, please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

d. Notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?  Yes  No

If yes, please describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. Please provide any additional information relative to this project.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# APPENDIX E

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RESUMES



**DR. SIAMAK JAFROUDI**

President

Principal-in-Charge

**EDUCATION**

PhD, Geotechnical Engineering, 1983,  
UC Davis  
MS, Civil Engineering, 1978, UC Davis

**REGISTRATIONS**

Civil Engineering, California, PE 36641  
Geotechnical Engineer, California, GE 2024  
Environmental Assessor, REA 01655

**PROFESSIONAL SUMMARY**

Dr. Jafroudi has over 34 years of professional experience in geotechnical engineering. His area of specialization is "material characterization" in relation to slope stability evaluation, liquefaction analysis, pavement design, collapse potential, earth retaining structures and earthquake engineering. Dr. Jafroudi's experience encompasses the design and supervision of a multitude of soil mechanics laboratory tests and drilling programs. With a broad range of project experience, he has served as a Principal Engineer on several key projects for such clients as school, university and college districts, public agencies; transportation agencies; residential and commercial developers, as well as private sector clients.

Acquiring a doctorate degree in Geotechnical Engineering as well as a Master of Science degree in Civil Engineering, Dr. Jafroudi maintains extensive working knowledge and experience with respect to these challenging fields. Dr. Jafroudi is a Registered Geotechnical Engineer (GE), a Registered Environmental Assessor (REA), and is registered in Civil Engineering (PE), all in the state of California. Additionally, he is an active member of the American Society of Civil Engineers, the Earthquake Engineering Research Institute and California Geotechnical Engineering Association.

**SELECTED PROJECT EXPERIENCE****Environmental Site Assessments**

- Covina Transit Plaza, Foothill Transit, Covina, California
- First Street Bridge Widening, Los Angeles County, California
- Overland Street Bridge Improvements, Los Angeles County, California
- 801 Office Tower, Mani Brothers, Los Angeles, California
- Harmony Grove Site Acquisition, New Urban West, San Diego County, California
- Site Acquisitions, County of Los Angeles Office of Education, Los Angeles, California
- Eleven Projects, City of Mission Viejo, Mission Viejo, California
- Site Acquisitions, Paramount USD, Paramount, California
- Site Acquisitions, Santa Ana USD, Santa Ana, California
- Site Acquisition, Nevis Construction, Chino Hills, California
- Site Acquisitions, Moreno Valley USD, Moreno Valley, California
- Corona Farms, Confidential Client, Corona, California
- Amusement Park, Confidential Client, Orange County, California
- Nursery Site, Confidential Client, Sylmar, California
- Warehouse Facility, Confidential Client, Norwalk, California

## MR. JONATHAN CAIN

Title: Senior Project Geologist

### EDUCATION

BS, Geology, Radford University, Radford, Virginia

### SELECT PROJECT EXPERIENCE

#### Environmental Investigations

- Assisting with Limited Phase II site assessment, July 2010; TRS Consultants, Brisa Del Mar Project, Bonsall
- Phase I site assessment and report preparation, July 2010; Meritage Homes, Rancho 23 Project, Rancho Cucamonga
- Phase I site assessment and report preparation, August 2010; KB Home, Paradiso Project, Indio
- Phase I site assessment and report preparation, August 2010; Ryland Homes, Alberhill Ranch Project, City of Lake Elsinore
- Phase I site assessment and report preparation, August 2010; TRS Consultants, Shadow Run Project, Pauma Valley
- Assisting with Phase I site assessment, November 2010, Carlsbad Volvo Dealership, Carlsbad
- Phase I site assessment and report preparation, July 2011, Castle & Cooke, Lake Elsinore Outlet Mall, Lake Elsinore
- Limited Phase II near-surface soil investigation, September 2011, Long Beach Unified School District, Roosevelt Elementary School, Long Beach
- Limited Phase II near-surface soil investigation, September 2011, Long Beach Unified School District, Newcomb Academy, Long Beach

#### Entertainment/Hospitality

- Design of Soldier-Pile Retaining Wall for Proposed Casino/Resort/Hotel, Jamul Band of Indians, Jamul

#### Transportation

- Geotechnical Investigation, Mariposa Avenue Bridge and Corrine Way Bridge, Tract 22100, KB Home Costal, Inc., Mockingbird Canyon Area, Riverside County
- Geotechnical Investigation, Nordahl Road Bridge, City of Escondido, San Diego County
- Ocean Beach Bikeway Extension, City of San Diego, San Diego County

#### Mass Grading

- Sweetwater Ranch Development, Classic Pacific Homes, French Valley Area, Riverside County
- Centex Hemet Development, Centex Homes, City of Hemet, Riverside County
- Bridle Creek Development, William Lyon Homes, Inc., Mockingbird Canyon Area, Riverside County
- Alicante Development, KB Home Costal, Inc., Mockingbird Canyon Area, Riverside County
- Nandina Limited Edition Estate Homes, Flatiron Land Company, Inc., Mockingbird Canyon Area, Riverside County
- Artisan San Jacinto, Artisan Communities, City of San Jacinto, Riverside County

Public Agency

- Ocean Beach Bikeway Extension, City of San Diego, San Diego

Educational Facility

- Extensive Fault Investigations, Mt. San Jacinto College Community College District, Menifee

Residential

- Geotechnical Investigation, Approximately 9.5-Acre Site, Darling Development Group, Mockingbird Canyon Area, Riverside County
- Geotechnical Investigation, Approximately 45.6-Acre Site, Pelican Homes, Cajalco Road, Lake Mathews Area, Riverside County
- Geotechnical Investigation, Approximately 40.5-Acre Site, Vista Ranch Development LLC, Woodcrest Area, Riverside County
- Geotechnical Investigation, Proposed Borrow Area Adjacent Tract 31118, Classic Pacific Homes, French Valley Area, Riverside County California
- Geotechnical Investigation, Gavalin Hills, Baker & Baker, Lake Mathews Area, Riverside County

Forensic Distress Investigations

- Big Rock Mesa Landslide, Malibu
- Via Allegre Landslide, San Clemente
- Leighton Street Landslide, Oahu, Hawaii
- Temple Hills Landslide, Laguna Beach
- Crown Cove Landslide, Laguna Beach
- Avenida de Santiago Landslide, Anaheim Hills

## Riverside County / Environmental

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Temecula, CA 92591  
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*past + present + future  
it's in our science*

Engineers, Geologists  
Environmental Scientists

February 15, 2012 (Reissued September 10, 2014)  
J.N. 361-11

MR. JONATHAN WELDY  
**ELBERTA, LLC & SOCAL CASA BLANCA, LP**  
**C/O MERIDIAN LAND DEVELOPMENT**  
19153 Town Center Drive, Suite 106  
Apple Valley, California, 92308

**Subject: Report of Limited Phase II- Near Surface Soil Investigation, 36104 Oak Glen Road, 240 Acres Site (APN Numbers 0321-082-15; 0321-101-02; -12; and -20), Casa Blanca Ranch, City of Yucaipa, San Bernardino County, California.**

Dear Mr. Weldy:

The Environmental Division of Petra Geotechnical, Inc. (Petra) is pleased to present this Limited Phase II - Near Surface Soil Investigation for the above-referenced site. This investigation has been conducted in accordance with our supplemental proposal dated November 21, 2011.

The information presented in this report discusses the results of our recent investigation and includes a summary of our findings and recommendations. This report was prepared at the request of Meridian Land Development on behalf of Elberta, LLC & Social Blanca, LP, for their exclusive use. Use of this report or reliance thereon by other parties or projects is not authorized. The report may not be suitable for other parties or other purposes.

### SITE DESCRIPTION

The subject site is located at 36104 Oak Glen Road, approximately 850 feet east-northeast of the intersection of Oak Glen Road and Cherry Croft Drive, in the City of Yucaipa, San Bernardino County, California. A site location map is included as Figure 1. The site is situated in an area comprised of low-density residential and agricultural land use. The subject site is comprised of approximately 240 acres with four separate Assessor's Parcel Numbers (APN Numbers 0321-082-15; 0321-101-02; -12; and -20). At the time of our investigation, the site was a vacant ranch with hilltops and canyons used for agriculture. A site plan is included as Figure 2.

## PURPOSE

Based on the findings of the Phase I ESA and further discussions with the client, it was recommended that near surface soil sampling would be required to evaluate potential impacts from *Recognized Environmental Conditions* (RECs). The specifically identified potential recognized environmental conditions within the subject site are: 1) pesticides from onsite agricultural use and termiticides; 2) potential PCB's from transformers; 3) potential lead from lead-based paints and 4) possible impact of hydrocarbons from on-site fuel storage, repair and washout areas. The purpose of the proposed Limited Phase II Investigation was to evaluate the potential for impact to the near surface soils from items identified as potential recognized environmental conditions prior to the purchase of the property for development as residential use.

## SCOPE OF SERVICES

Petra conducted a limited Phase II investigation of near-surface soils to evaluate impacts from pesticides from onsite agricultural use and termiticides; potential PCB's from transformers; potential lead from lead-based paints and possible impact of hydrocarbons from on-site fuel storage, repair and washout areas. This work consisted of the following tasks:

1. **Task 1 - Research.** Petra obtained copies of historical aerial photographs for the recent Phase I site investigation. These photographs were used to determine the location of past agricultural land use as well as structures which could represent potential mixing areas or fuel storage, repair or washout areas. Copies of these photographs are included in Appendix A.
2. **Task 2 - Soil Sampling.** Petra utilized a direct-push rig or hand augered a total of 62 soil borings on the subject site for the following areas.
  - Agricultural land use area samples were collected from zero to six inches below ground surface (bgs) and from 2.0 to 2.5 feet bgs. The shallow samples were composited by the laboratory into groups of two or three. The deeper samples were placed on hold pending the analytical results of the shallow samples. A map showing the agricultural land use boring locations is provided in Figure 3 and 5. A minimum of two drip-line samples were collected in an area of exposed soil adjacent to each building. The samples were collected from within zero to six inches bgs and 2 to 3 feet bgs. The shallow samples were composited by the laboratory into groups of two. The deeper samples were placed on hold pending the analytical results of the shallow samples. A map showing the drip-line sample locations is provided in Figures 3 and 5.
  - Transformer location samples were collected from below the pole-mounted transformer within zero to six inches bgs and 2 to 3 feet bgs. The shallow sample was analyzed discretely. The deeper sample was placed on hold pending the analytical results of the shallow sample.
  - Hydrocarbon area samples were collected in areas with the highest likelihood of hydrocarbon contamination and, where possible, were collected from 0.5 to 1.0; 2.5 to 3.0; 5.0 to 5.5 and 10

feet bgs. The shallow samples from 0.5 to 1.0 feet were analyzed discretely. The deeper samples were placed on hold pending the analytical results of the shallow sample. Sample with high levels of hydrocarbons were later tested at 2.0 and 2.5 feet bgs.

3. **Task 3 - Laboratory Analysis.** All samples collected during the sampling phase were submitted under chain-of-custody documentation to a state-certified laboratory.
- Samples collected for Agricultural Land Use were tested discretely or composited into groups of two and analyzed for organochlorine pesticides (OCPs) according to Environmental Protection Agency (EPA) Method 8081A; Twenty percent of these samples were analyzed for Organophosphorus pesticides (OPPs) using EPA Method 8141A and Chlorinated Herbicides using EPA Method 8151A.
  - Drip-line samples collected were composited into groups of two and analyzed for termiticides according to Environmental Protection Agency (EPA) Method 8081A and lead using EPA Method 6010B.
  - Samples collected for Transformer locations were analyzed discretely for Polychlorinated Biphenyls (PCB's) according to Environmental Protection Agency (EPA) Method 8082.
  - Samples collected within areas with the highest likelihood of hydrocarbon contamination were analyzed discretely for Total petroleum hydrocarbons (TPH) –Carbon Chain using Environmental Protection Agency (EPA) Method 8015B.
4. **Task 4 – Data Evaluation and Reporting.** Petra reviewed the laboratory findings and a discussion of these findings is presented in this report. A copy of the laboratory results and chain-of-custody form is provided in Appendix B.

### SOIL SAMPLE PROTOCOL

The direct-push rig borings (agricultural land use locations) were sampled using a one-inch diameter hydraulic and percussion drive-point unit with a closed piston sampler. All other samples collected were advanced using a hand-auger tool. Clean, four-ounce glass jars, provided by the laboratory, were used to collect soil samples from the hand-auger borings. Each sample was collected, sealed, labeled, and placed in a cooler with ice for subsequent laboratory analysis. To prevent cross-contamination, all sampling equipment was washed with a Liquinox<sup>TM</sup> and water solution, and rinsed with distilled water, prior to introduction into the subsurface. Chain-of-custody procedures, including sample labeling, preservation, and handling protocols were followed for identification and tracking of the samples.

Soil samples collected were transported to and analyzed by Enviro-Chem, Inc., Pomona, California, a state certified laboratory. Sample security was maintained and documented using sample labels and chain-of-

custody records. Copies of the official laboratory reports and chain-of-custody records are included in Appendix B.

### **INITIAL FIELD INVESTIGATION**

Petra conducted soil sampling activities for the investigation at the subject site on December 8 and 9, 2011. A discussion of the field activities is provided below. The approximate boring locations are shown on Figures 3, 4 and 5.

#### **Field Activities**

A total of 62 borings (Borings B-1 through B-62) were sampled on the subject site. The following samples (including field quality control [QC] samples) were collected and analyzed for OCPs, OPPs, Chlorinated Herbicides, Lead, PCB's and TPH – Carbon chain as part of this investigative effort.

- ... Twenty-one of the borings were tested for multiple purposes.
- Forty-three borings were excavated within agriculture land use areas including drainage channels, potential mixing areas, agricultural fields or former orchards.
- One boring was excavated in the area under the pole-mounted transformer.
- Fourteen borings were excavated within the drip-line (within two feet) of the existing buildings.
- Eleven borings were excavated within areas with the highest likelihood of carbon contamination.
- At twelve locations duplicate samples were collected from the boring as a quality control procedure.

#### **Laboratory Analysis**

Soil samples collected during this investigation were analyzed by Enviro-Chem, Inc. (ECI) in Pomona, California. ECI is accredited by the California Environmental Protection Agency, Department of Health Services, Environmental Laboratory Accreditation Program (ELAP). Analyses were requested on a chain-of-custody record.

Samples collected were analyzed for the following:

- Organochlorine pesticides (OCP's) using EPA Method 8081A
- Organophosphorus pesticides (OPP's) using EPA Method 8141A
- Chlorinated Herbicides using EPA Method 8151A
- Lead using EPA Method 6010B

- Total Petroleum Hydrocarbons (TPH)-Carbon Chain using EPA Method 8015B.

Several samples were analyzed for more than one purpose. Below is a discussion of the laboratory results.

#### Agricultural Land Use Samples

Organochlorinated Pesticides: Twenty-six samples and six duplicate samples were tested for organochlorinated pesticides residues. The samples contained no detectable levels of organochlorinated pesticides or were well below the 2011 EPA Region 9 Regional Screening Levels (RSLs) and 2005 California Human Health Screening Levels (CHHSLs).

Organophosphorus Pesticides: Twenty percent of the samples were also analyzed for Organophosphorus pesticides. No detectable levels of Organophosphorus pesticides were present in the samples analyzed.

Chlorinate Herbicides: Twenty percent of the samples were also analyzed for Chlorinated Herbicides. No detectable levels of Chlorinated Herbicides were present in the samples analyzed.

#### Drip-Line Samples

Lead: Seven samples and three duplicate samples were tested for lead. Concentrations of lead in the drip-line samples ranged from 5.17 to 327 mg/kg. The concentration found in composite samples B-56-0.5 and B-1

57-0.5; B-58-0.5 and B-59-0.5; and B-60-0.5 and B-61-0.5 were 327 mg/kg, 258 mg/kg, and 182 mg/kg respectively. These levels are below the 2011 EPA Region 9 Regional Screening Level (RSL) for Lead of 400 mg/kg. However, these levels are above the 2009 Revised California Human Health Screening Level (CHHSL) for Lead of 80 mg/kg. ***It should be noted that all of the samples were composited for efficiency and to identify, during the due-diligence process prior to purchase of the property, if lead was found along the buildings. Discreet testing of samples may show even higher levels of lead.***

Termiticides: Seven samples and three duplicate samples were tested for Termiticides (OCP's). The samples contained no detectable levels for Termiticides (OCP's) or were well below the 2011 EPA Region 9 Regional Screening Levels (RSLs) and 2005 California Human Health Screening Levels (CHHSLs). Therefore, termiticides (OCP's) along the perimeter of the existing buildings does not represent a concern in regards to the subject site.

### Transformer Locations Samples

Polychlorinated Biphenyl's (PCB's): One sample and one duplicate sample were tested for PCB's. No PCB's were detected at or above the laboratory reporting limits analyzed for the sample below the pole mounted transformer.

### Hydrocarbon Samples

Total Petroleum Hydrocarbons (TPH) – Carbon Chain: Twelve discreet samples and three discreet duplicate samples were tested for TPH-Carbon Chain. No concentrations were detected above the laboratory reporting limit for C4-C10 Gasoline Range in any of the samples analyzed; concentrations of C11-C22 Diesel Range were found in discreet samples B-1-0.5 and duplicate sample B-11-0.5 and were 12.9 mg/kg and 214 mg/kg respectively; concentrations of C23-C35 Motor Oil Range were found in discreet samples B-1-0.5 at 115 mg/kg, B-2-0.5 at 85.5 mg/kg, duplicate sample B-2-0.5 at 66.1 mg/kg, B-3-0.5 at 54.9 mg/kg, B-11-0.5 at 55.1 mg/kg and duplicate sample B-11-0.5 at 1460 mg/kg.

Since concentrations of hydrocarbons were detected in the shallow samples analyzed for borings B-1, B-2, B-3 and B-11, deeper samples within these borings were later tested. No concentrations were detected above the laboratory reporting limit for C4-C10 Gasoline Range in any of the deeper samples analyzed. However, concentrations of C11-C22 Diesel Range were found in discreet sample B-1-2.0 at 589 mg/kg and concentrations of C23-C35 Motor Oil Range were found in discreet sample B-1-2.0 at 2770 mg/kg.

These concentrations were higher than the concentrations found in the shallow samples within boring B-

## **QUALITY ASSURANCE AND QUALITY CONTROL MEASURES**

This investigation includes a quality assurance/quality control (QA/QC) program to ensure the reliability and compatibility of all data generated during sampling activities. The laboratory QA/QC conducted by the laboratory is located at the back of each data sequence presented in the Laboratory Report in Appendix C.

### **Project Quality Objectives**

The necessary QA/QC procedures were performed in accordance with acceptable protocols, so that the data generated meets the overall project objectives for precision and accuracy. Sampling and analytical procedures, personnel requirements, chain-of-custody and documentation requirements, and specific

criteria for determining data acceptability were traceable. Procedures stipulated how to address data deficiencies, data reduction and evaluation, and preparation of field investigation reports, which were produced so that outputs are accurate and technically sound.

### **Documentation and Records**

The following information is included in the laboratory data report package.

1. Cover letter with laboratory manager (or designee's) signature.
2. Data reports for each sample submitted which include at a minimum:
  - Results and reporting units for each parameter;
  - Project defined reporting limits;
  - Date of extraction(s) and analyses;
  - List of project specified methodologies for each parameter; and
  - Dates of sample collection and laboratory receipt.
3. Quality control summary forms with method blank results, matrix spike/matrix spike duplicate (MS/MSD) recoveries, and RPD calculations.
4. Copy of the original chain-of-custody forms.
5. A case narrative, as necessary, to discuss quality control limit exceedences, specific sample problems, and analytical methodology problems observed.

### **Measurement Data Acquisition**

#### **Sampling Process Design**

The primary objective of the investigation was to evaluate site soils for: 1) pesticides from onsite agricultural use and termiticides; 2) potential PCB's from transformers; 3) potential lead from lead-based paints and 4) possible impact of hydrocarbons from on-site fuel storage, repair and washout areas. Sampling locations were selected based on suspected potential impact areas and access restrictions.

#### **Analytical Method Requirements**

Analytical methods employed for the soil samples collected during this investigation are listed below. Analytical procedure detection limits are provided in the Laboratory Report.

### Target Contaminants

- Organochlorine pesticides (OCP's) using EPA Method 8081A
- Organophosphorus pesticides (OPP's) using EPA Method 8141A
- Chlorinated Herbicides using EPA Method 8151A
- Lead using EPA Method 6010B
- Total Petroleum Hydrocarbons (TPH)-Carbon Chain using EPA Method 8015B.

All analytical procedures were conducted in accordance with the current EPA document SW-846 methodologies. The detection limits for each analysis is provided in the laboratory report.

### **Quality Control Requirements**

The Project Manager was responsible for implementing the quality control requirements for the project. The quality control procedures specified in the current SW-846 methodologies and specified EPA methods were followed in the laboratory and in the field.

### **Field QC Requirements**

Field sampling procedures require QC samples consisting of the following:

Rinsate Samples - Rinsate samples are collected to check for possible cross-contamination made during decontamination procedures. One rinsate sample was collected each day soil samples were collected. The rinsate samples were analyzed for the same analyses requested for during that day's field operations. The rinsate samples were submitted to the laboratory along with the soil samples and other quality control samples for analysis.

### **Laboratory QC Requirements**

To obtain data on the precision, accuracy and recovery, the analytical laboratory analyzed the QC samples as specified by the reporting requirements of the SW836. The control limits and corrective actions for each parameter are specified in each analytical method.

### **Instrument Calibration and Frequency**

The laboratory maintains a full-service contract with the laboratory equipment manufacturers in order to minimize downtime of the analytical systems. A service engineer performs necessary preventive maintenance.

Each analyst was responsible for conducting a daily inspection of critical systems on instruments under their charge. Inspections include vacuum lines and pumps for GC/MS, automatic injection systems, controlled reagent-feed motors, temperature-controlled ovens in GCs, capillary columns, detectors and support systems, gas control system for AA's, and many others. Wear-dependent items such as septa on

GC injection systems are replaced as needed. The performance of instruments was checked against known standards at the beginning of each working day or shift. Failure to achieve proper performance indicates a system problem, which was dealt with by laboratory personnel or by the manufacturer's service representative.

In addition, laboratory personnel or the manufacturer's service representative serviced working systems according to a fixed schedule. A record of service and repairs, whether accomplished by laboratory personnel or by the manufacturer's service representative, is maintained in a logbook kept with each instrument.

### **Precision, Accuracy, Representativeness, Completeness and Comparability**

The basis for assessing the elements of data quality is discussed in the following subsections. In the absence of laboratory-specific precision and accuracy limits, the QC limits listed in this section must be met.

#### Precision

*Precision*-is a measurement of the reproducibility of repetitive measurements. It is strictly defined as the degree of mutual agreement among independent measurements as the result of repeated application of the sample process under similar conditions.

*Analytical precision*- is a measurement of the variability associated with duplicate or replicate analyses of the same sample in the laboratory, and is determined by analysis of laboratory quality control samples,

such as duplicate control samples, MS/MSD, or sample duplicates. If the recoveries of analytes in the specified control samples are comparable within established control limits, then precision is within limits.

*Total precision*-is a measurement of the variability associated with the entire sampling and analytical process. It is determined by analysis of duplicate or replicate field samples, and measures variability introduced by both the laboratory and field operations. Field duplicate samples are analyzed to assess field and analytical precision.

Duplicate results are assessed using the RPD between duplicate measurements. If the RPD for laboratory quality control samples exceeds 30 percent, data was qualified as described in the applicable validation procedure. If the RPD between the primary and duplicate field samples exceeds 100 percent for soil, the data is considered qualified as described in the applicable validation procedure. The % RPD was calculated as follows:

$$\% \text{ RPD} = 200 \times (|X_2 - X_1|) / (X_2 + X_1)$$

where  $X_1$  and  $X_2$  are the two observed values. Refer to Table 2 for the results of the duplicate sample data validation.

#### Accuracy

*Accuracy*- is a statistical measurement of correctness and includes components of random error (variability due to imprecision) and systematic error. It reflects the total error associated with a measurement. A measurement is accurate when the value reported does not differ from the true value or known concentration of the spike or standard.

Accuracy of laboratory analyses was assessed by laboratory control samples, surrogate standards, matrix spikes, and initial and continuing calibrations of instruments. Laboratory accuracy is expressed as the percent recovery (%R). Accuracy limits are statistically generated by the laboratory or required by specified EPA methods. If the percent recovery is determined to be outside of acceptance criteria, data was qualified as described in the applicable validation procedure. The calculation of percent recovery is provided below:

$$\% \text{ R} = 100 \times (X_S - X) / T$$

where  $X_s$  is the measured value of the spiked sample,  $X$  is the measured value of the unspiked sample and  $T$  is the true value of the spike solution added.

Field accuracy was assessed through the analysis of the field equipment blanks. Analysis of blanks monitor errors associated with the sampling process, field contamination, sample preservation, and sample handling. The DQO for field equipment blanks is that all values are less than the reporting limit for each target constituent. If contamination is reported in the field equipment blank, data would be qualified as described in the applicable validation procedure.

#### Representativeness

*Representativeness*- is the degree to which data accurately and precisely represent selected characteristics of the media sampled. Representativeness of data collection is addressed by careful preparation of sampling and analysis programs. This investigation addressed representativeness by specifying the numbers and locations of samples; incorporating appropriate sampling methodologies; specifying proper sample collection techniques and decontamination procedures; selecting appropriate laboratory methods to prepare and analyze soil and establishing proper field and laboratory QA/QC procedures.

#### Completeness

*Completeness*- is the amount of valid data obtained compared to the amount that was expected under ideal conditions. The number of valid results divided by the number of possible results, expressed as a percentage, determines the completeness of the data set. The objective for completeness is to recover 100 percent of the planned data to support field efforts. The formula for calculation of completeness is presented, as follows:

$$\% \text{ Completeness} = 100 \times (\text{number of valid results}) / (\text{number of expected results})$$

#### Comparability

*Comparability*- is an expression of confidence with which one data set can be compared to another. The objective of comparability is to ensure that data developed during the investigation are comparable to site knowledge and adequately address applicable criteria or standards established by the USEPA and the California Department of Health Services (DHS). This investigation addressed comparability by specifying laboratory methods that are consistent with the current standards of practice as approved by the USEPA and DHS.

### **Data Management**

Data resulting from laboratory analysis was consistent with the appropriate methods and equations stated in the procedure. Individual laboratory supervisors reviewed data before forwarding it to the data management supervisor. Final reports were reviewed by the laboratory QA Manager for errors or deviations before release. Final reports include the Quality Control Summary data required to perform data assessment. Procedures used for analyses were compared with the reference methods. Discrepancies or deviations are noted and explained.

The data generated during the sample collection and analysis was centralized into one project file including information about the instrument conditions. The data management system allows review by project personnel.

### **Quality Assurance/Quality Control Samples**

Method blank samples are generated within the laboratory and used to assess contamination resulting from laboratory procedures. Matrix spikes provide information about the effect of the sample matrix on the digestion and measurement methodology. Matrix spikes are performed in duplicate and are hereinafter referred to as MS/MSD samples. One MS/MSD was analyzed for every 20 samples, or one per sample data group. Please see the laboratory reports in Appendix C.

### **VARIANCES**

This section describes any variances experienced during implementation soil sampling at the site.

Due to refusal on concrete or boulders some deeper samples for TPH – Carbon Chain samples were not collected within certain borings.

### **CONCLUSIONS AND RECOMMENDATIONS**

Based on the laboratory results of the soil samples collected, the following conclusions are made:

- Samples were tested for Organochlorinated pesticides, Organophosphorus pesticides and Chlorinated Herbicides residues. The samples contained no detectable levels of Organochlorinated pesticides, Organophosphorus pesticides and Chlorinated Herbicides or were well below the 2011 EPA Region 9 Regional Screening Levels (RSLs) and 2005 California Human Health Screening Levels (CHHSLs). Therefore, Organochlorinated pesticides,

Organophosphorus pesticides and Chlorinated Herbicides do not represent a concern with regards to the subject site.

- Concentrations of lead in the drip-line samples and duplicate samples ranged from 5.17 to 327 mg/kg. The detected concentrations for the composite samples B-56-0.5 and B-57-0.5; B-58-0.5 and B-59-0.5; and B-60-0.5 and B-61-0.5 were 327 mg/kg, 258 mg/kg, and 182 mg/kg respectively. These concentrations are below the 2011 EPA Region 9 Regional Screening Level (RSL) for Lead of 400 mg/kg. However, these levels are above the 2009 Revised California Human Health Screening Level (CHHSL) for Lead of 80 mg/kg. *It should be noted that all of the samples were composited for efficiency and to identify, during the due-diligence process prior to purchase of the property, if lead was found along the buildings. Discreet testing of samples may show even higher levels of lead*

If the structures are to be renovated or demolished, it is recommended that lead-based paints should be abated prior to demolition in accordance with current regulations.

- Samples were tested for Termiticides (OCP's) around the existing structures. The samples contained no detectable levels for Termiticides (OCP's) or were well below the 2011 EPA Region 9 Regional Screening Levels (RSLs) and 2005 California Human Health Screening Levels (CHHSLs). Therefore, termiticides (OCP's) along the perimeter of the existing buildings does not represent a concern in regards to the subject site.
- One sample and one duplicate sample were tested for Polychlorinated Biphenyl's (PCB's). No PCB's were detected at or above the laboratory reporting limits analyzed for the sample below the pole mounted transformer.
- Twelve samples and three duplicate samples were tested for Total Petroleum Hydrocarbons (TPH) – Carbon Chain. No concentrations were detected above the laboratory reporting limit for C4-C10 Gasoline Range in any of the samples analyzed; concentrations of C11-C22 Diesel Range were found in discreet samples B-1-0.5 and duplicate sample B-11-0.5 and were 12.9 mg/kg and 214 mg/kg respectively; concentrations of C23-C35 Motor Oil Range were found in discreet samples B-1-0.5 at 115 mg/kg, B-2-0.5 at 85.5 mg/kg, duplicate sample B-2-0.5 at 66.1 mg/kg, B-3-0.5 at 54.9 mg/kg, B-11-0.5 at 55.1 mg/kg and duplicate sample B-11-0.5 at 1460 mg/kg.

The levels of Total Petroleum Hydrocarbons (TPH) – Carbon Chain detected in boring B-1 were found to have the highest concentrations for C11-C22 Diesel Range and C23-C35 Motor Oil Range and contained higher concentrations with depth. Boring B-1 was excavated within a concrete walled pit located within the repair shop. Boring B-1 met refusal at 2.5 feet so an attempt was made in a second location within the pit to collect deeper samples. However, this attempt was also met with refusal around 2.5 feet. Petra representatives were unsure if the pit contained a concrete bottom or if refusal was on a boulder. Neither the client nor Mr. Tom Webster co-owner of the subject site has any knowledge of the pit containing a concrete bottom. Therefore, Petra recommends that the soils within the pit be removed to 2.5 feet along with the concrete sidewalls and concrete bottom if applicable. The removal should be overseen by an environmental firm, such as Petra, and confirmation samples at 2.5 feet or below the concrete should be collected and analyzed in order to verify that the impacted soil was removed.

Due to the levels of Total Petroleum Hydrocarbons (TPH) – Carbon Chain detected in relatively small surface areas within borings B-2, B-3 and B-11, Petra recommends conducting a limited removal around boring locations B-2, B-3 and B-11 within a radius of 3 feet and to a depth of 3 feet. The removal should be overseen by an environmental firm, such as Petra, and confirmation samples should be collected and analyzed in order to verify that the impacted soil was removed.

**LIMITATIONS**

Petra has completed the above scope of work in accordance with our Supplemental Proposal for J.N. 361-11, dated November 21, 2011. The work activities described herein were conducted to address the specific issues as discussed in this report. No other areas of the subject site were assessed as part of this investigation.

This opportunity to be of service to you is sincerely appreciated. Please do not hesitate to call this office if you have questions pertaining to this report.

Respectfully submitted,

Petra Geotechnical, Inc.  
*ENVIRONMENTAL DIVISION*



Jonathan Cain  
Senior Project Geologist



Siamak Jafroudi, PhD,  
President  
PE 36641, REA-I 1655



JC/SJ/kms/jma/nbc

Distribution: (3) Addressee

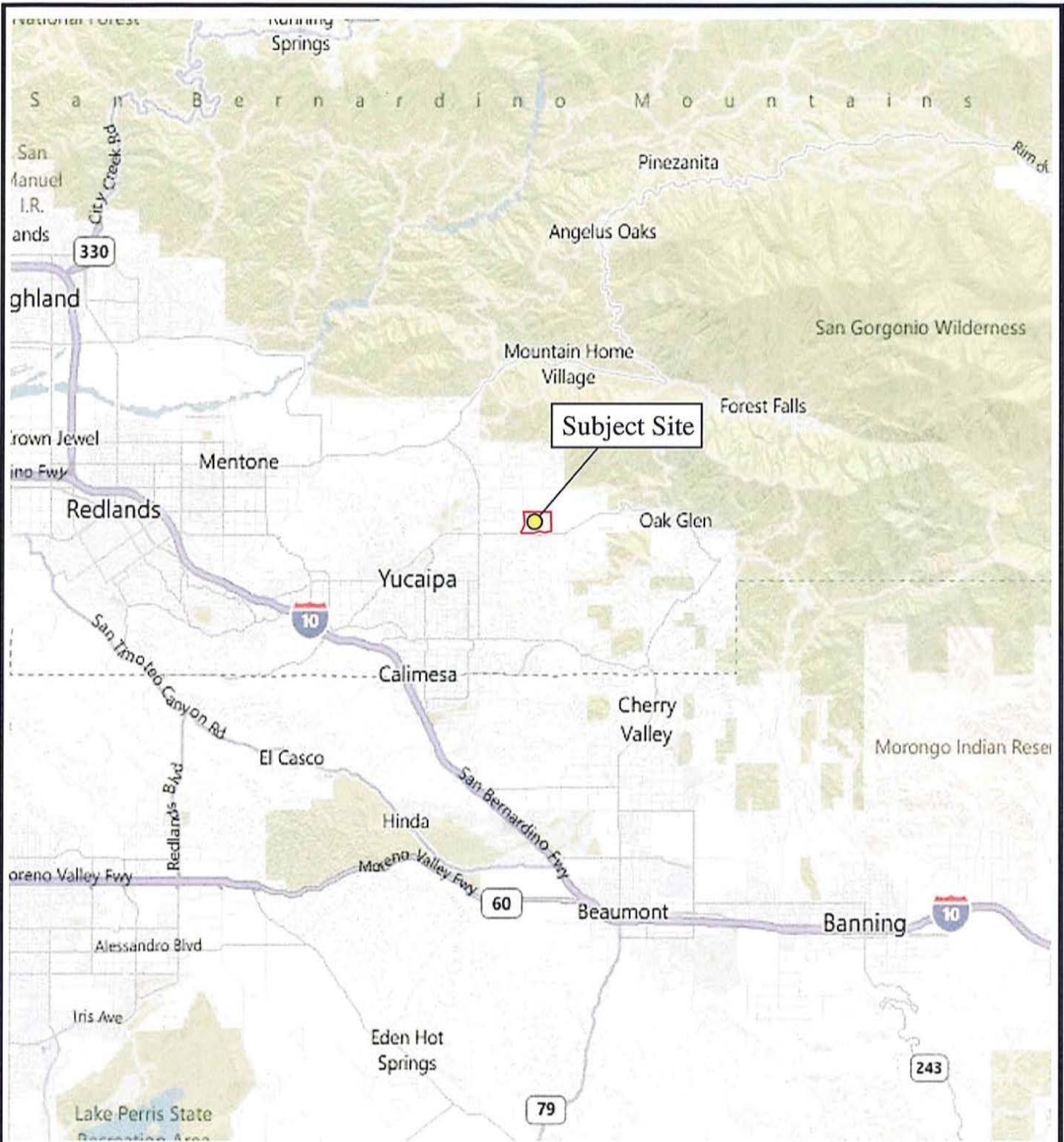
**REFERENCES**

California Environmental Protection Agency, 2005, California Human Health Screening Levels.

California Environmental Protection Agency, 2009, Revised California Human Health Screening Levels For Lead

Environmental Protection Agency, 2010, "EPA Region 9 Regional Screening Levels."

Petra Geotechnical, Inc., 2001, Phase I Environmental Site Assessment, 36104 Oak Glen Road, 240 Acres (APN Numbers 0321-082-15; 0321-101-02; -12; and -20), *Casa Blanca Ranch*, City of Yucaipa, San Bernardino County, California, dated December 19.



Reference: Bing Maps



**PETRA GEOTECHNICAL, INC.**

40880 County Center Drive, Suite R  
 Temecula, California 92591  
 PHONE: (951) 600-9271

COSTA MESA    TEMECULA    PALM DESERT    SAN DIEGO    SANTA CLARITA

**SITE LOCATION MAP**

Meridian Land Development Project  
 Casa Blanca Ranch  
 City of Yucaipa, CA

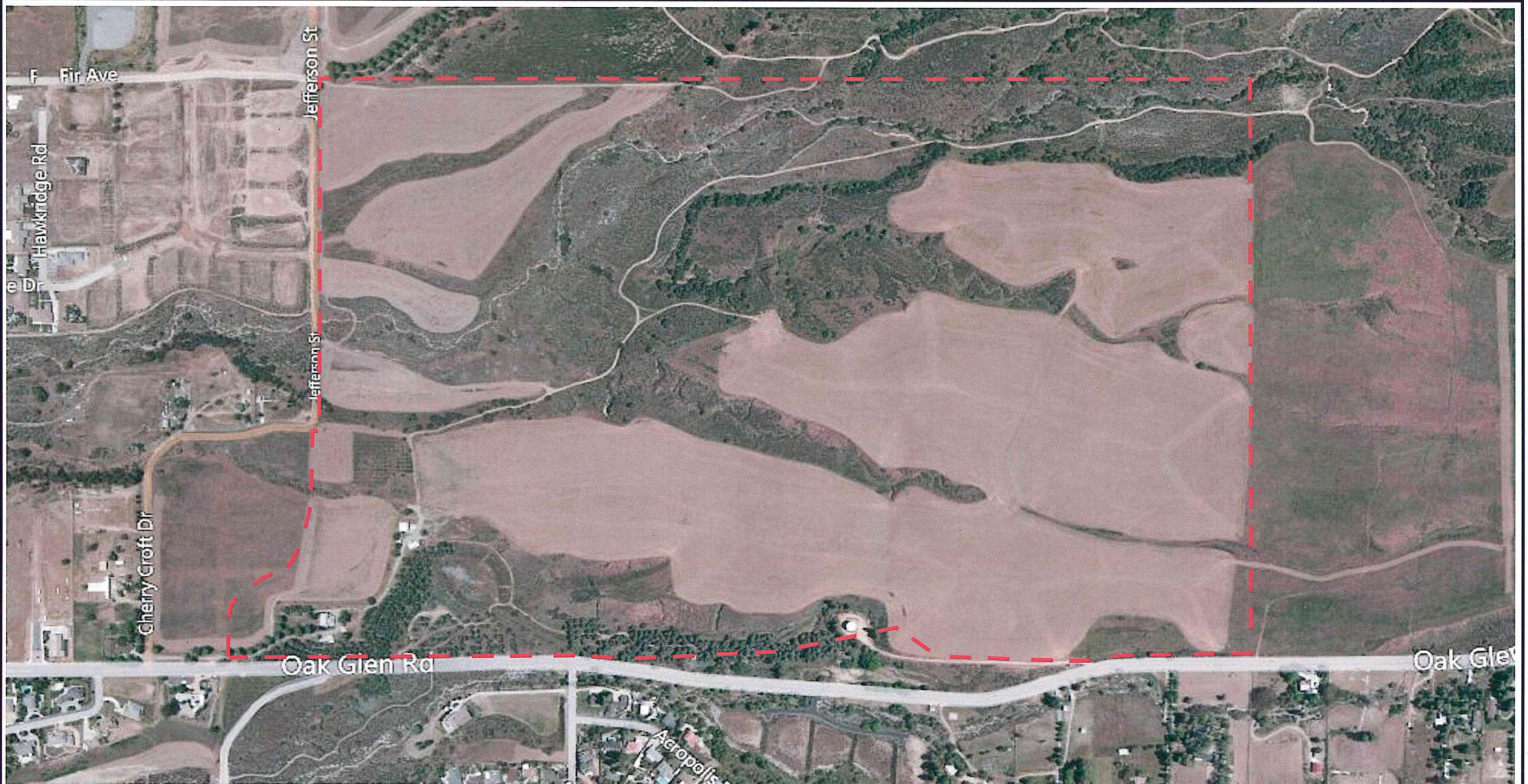
DATE: Dec 2011

J.N.: 361-11

DWG BY: JC

SCALE: None

**Figure 1**



**EXPLANATION**



Approximate Location of Site Boundry



Reference: Bing Maps

**PETRA GEOTECHNICAL, INC.**  
 40880 County Center Drive, Suite R  
 Temecula, California 92591  
 Telephone: (951) 600-9271  
 COSTA MESA TEMECULA PALM DESERT SAN DIEGO SANTA CLARITA

**SITE PLAN**

Meridian Land Development Project  
 Casa Blanca Ranch  
 City of Yucaipa, California

DATE: Dec 2011

J.N.: 361-11

DWG BY: JC

SCALE: N/A

**Figure 2**



**EXPLANATION**

-  Approximate Location of Boring Tested for Carbon Chain  
**B-3**

 Approximate Location of Boring Tested for Carbon Chain and OCP's  
**B-13**
-  Approximate Location of Boring Tested for PCB's  
**B-10**

 Approximate Location of Boring Tested for Lead and OCP's  
**B-52**



Reference: Bing Maps

**PETRA GEOTECHNICAL, INC.**  
 40880 County Center Drive, Suite R  
 Temecula, California 92591  
 Telephone: (951) 600-9271  
 COSTA MESA   TEMECULA   PALM DESERT   SAN DIEGO   SANTA CLARITA

<b>BORING LOCATION MAP</b>		
Meridian Land Development Project Casa Blanca Ranch City of Yucaipa, California		
DATE: Dec 2011	J.N.: 361-11	<b>Figure 3</b>
DWG BY: JC	SCALE: N/A	



**EXPLANATION**

-  Approximate Location of Site Boundry
-  **B-47** Approximate Location of Borings Tested for OCP's

-  **B-40** Approximate Location of Borings Tested for Carbon Chain and OCP's



Reference: Bing Maps

**PETRA GEOTECHNICAL, INC.**  
 40880 County Center Drive, Suite R  
 Temecula, California 92591  
 Telephone: (951) 600-9271  
 COSTA MESA TEMECULA PALM DESERT SAN DIEGO SANTA CLARITA

**AGRICULTURE LAND USE BORING LOCATIONS**

Meridian Land Development Project  
 Casa Blanca Ranch  
 City of Yucaipa, California

DATE: Dec 2011	J.N.: 361-11	<b>Figure 4</b>
DWG BY: JC	SCALE: N/A	



**EXPLANATION**

- B-62 Approximate Location of Borings Tested for Carbon Chain
- B-61 Approximate Location of Borings Tested for Lead and OCP's



Reference: Bing Maps

**PETRA GEOTECHNICAL, INC.**  
 40880 County Center Drive, Suite R  
 Temecula, California 92591  
 Telephone: (951) 600-9271  
 COSTA MESA TEMECULA PALM DESERT SAN DIEGO SANTA CLARITA

**BORING LOCATION MAP**

Meridian Land Development Project  
 Casa Blanca Ranch  
 City of Yucaipa, California

DATE: Dec 2011	J.N.: 361-11	<b>Figure 5</b>
DWG BY: JC	SCALE: N/A	

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: December 14, 2011

Mr. Jon Cain  
Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

Project: **361-11**  
Lab I.D.: **111201-63 through -135**

Dear Mr. Cain:

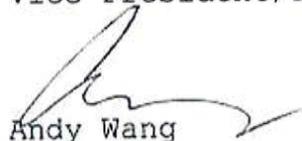
The **additional analytical results** for the soil and water samples, received by our lab on December 1, 2011, are attached. The samples were received chilled, intact, accompanying chain of custody record and also stored per the EPA protocols.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manager



Andy Wang  
Laboratory Manager

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/12/11  
DATE ANALYZED: 12/12/11  
DATE REPORTED: 12/14/11

TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS  
METHOD: EPA 8015B  
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
B-1@2.0'	111201-64	ND	589*	2770	10
B-2@2.5'	111201-66	ND	ND	ND	1
B-3@2.5'	111201-68	ND	ND	ND	1
B-11@2.5'	111201-88	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
	PQL	10	10	50	

### COMMENTS

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

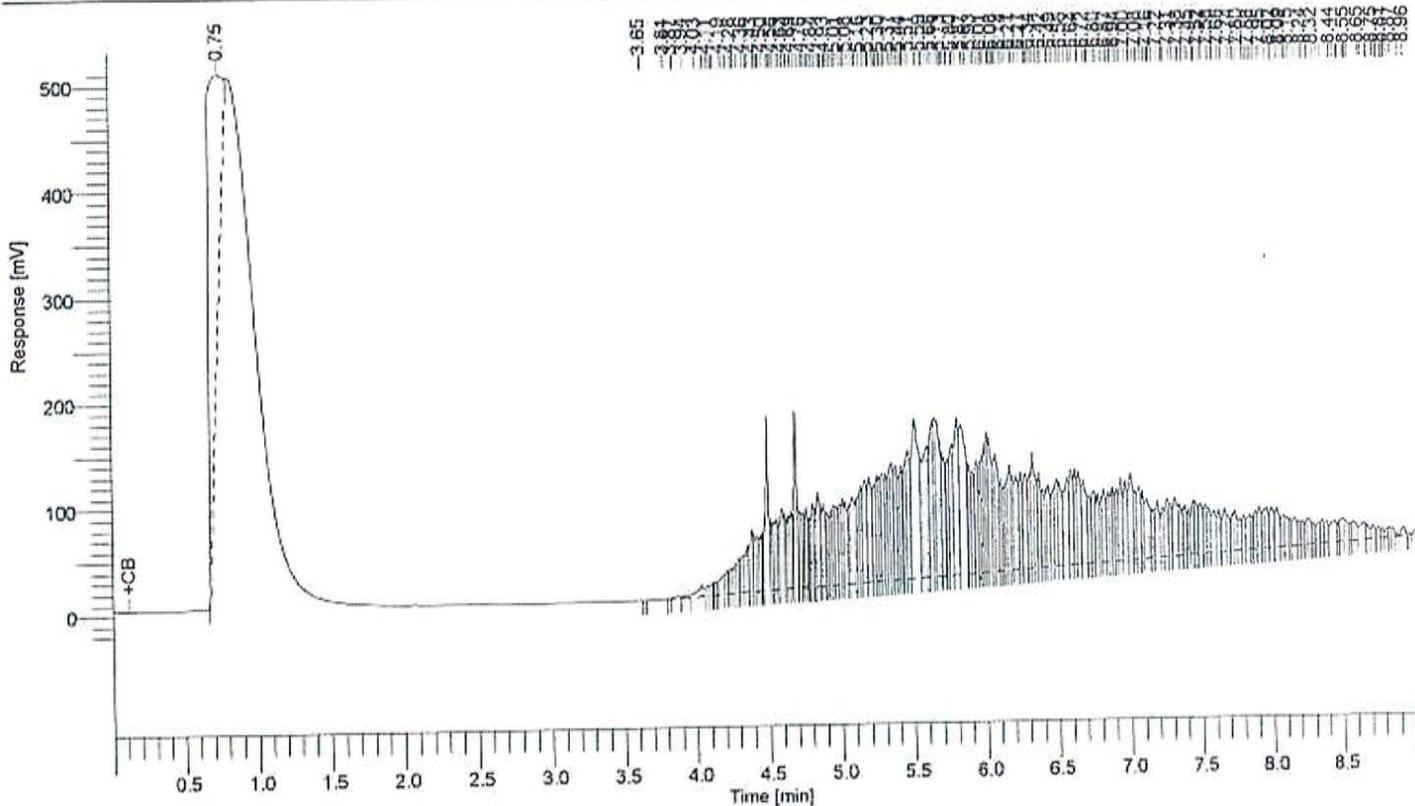
\* = PEAKS IN DIESEL RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF DIESEL STANDARD

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646  
 Reprocess Number : gc-pc: 70192  
 Sample Name : 111201-64 20/20 RE  
 Instrument Name : GC-1  
 Rack/Vial : 0/32  
 Sample Amount : 1.000000  
 Cycle : 1

Date : 12/13/2011 8:35:59 AM  
 Data Acquisition Time : 12/12/2011 6:57:29 PM  
 Channel : A  
 Operator : tcprocess  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-IN111212\A052.rst  
 Sequence File : D:\GC DATA\GC-IN111212\111212.seq  
 Sample Notes:  
 FAST EPA 8015 Analysis FOR CCID



8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C11-C22	4910839	589.2
C23-C35	12542126	2766.6
	17452965	3355.7

## 8015B QA/QC Report

Date Analyzed: 12/12/2011

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111209-25 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2584	103%	2599	104%	1%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	172	86%	75-125

Analyzed and Reviewed By: ZC

Final Reviewer: D

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 HOURS  
 Week Standards  
 Other

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS
								8015B DCP 8081A Lithium Chloride	Misc.	
B-1 @ 2.0'	111201-103	12-01-11	8:45	Soil	1		None	X		
B-1 @ 2.0'	-104		8:47					X		Hold
B-2 @ .5'	-105		9:00					X		
B-2 @ 2.5'	-106		9:04					X		Hold
B-3 @ .5'	-107		9:07					X		
B-3 @ 2.5'	-108		9:11					X		Hold
B-4 @ .5'	-109		9:16					X		Hold
B-4 @ 2.5'	-110		9:20					X		
B-5 @ .5'	-111		9:25					X		Hold
B-5 @ 2.5'	-112		9:27					X		Hold
B-5 @ 5.0'	-113		9:30					X		
B-6 @ .5'	-114		9:34					X		Hold
B-6 @ 2.5'	-115		9:37					X		Hold
B-6 @ 8.0'	-116		9:45					X		Hold

Company Name: **Petra Geotechnical Inc.**

Address: **38655 Sky Canyon Dr.**

City/State/Zip: **Murrieta CA 92563**

Relinquished by: *[Signature]* 12-01-11 4:00

Relinquished by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Project Contact: **Jon Cain**

Tel: **951-600-9271**

Fax: \_\_\_\_\_

Sampler's Signature: *[Signature]*

Project Name/ID: **361-11**

Date & Time: **12/1/11 10:00**

Date & Time: \_\_\_\_\_

Date & Time: \_\_\_\_\_

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other: \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: \_\_\_\_\_

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 5-7 Business Days  
 Other: \_\_\_\_\_

MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Misc.
8015B	CCP	8081A	PCB	8082
Carbon Chlorine	6010B	Lead	8082	PCB
	8082			PCB
	8082			PCB

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
B-7 @ .5	111201-77	12-04-11	9:55	soil	1		none	X	Hold
B-7 @ 2.5'	-78		9:57					X	Hold
B-8 @ .5	-79		10:00					X	Hold
B-8 @ 2.5'	-80		10:04					X	Hold
B-9 @ .5	-81		10:06					X	Hold
B-9 @ 2.5'	-82		10:10					X	Hold
B-10 @ .5	-83		10:15					X	Dupe
B-10 @ 2.5'	-84		10:16					X	Hold
B-10 @ 2.5'	-85		10:17					X	Rinse Equip
B-10-Rinse	-86		10:25	Water				X	
B-11 @ .5	-87		10:37					X	Hold
B-11 @ 2.5'	-88		10:39					X	Hold
B-12 @ .5	-89		10:41					X	Hold
B-12 @ 2.5'	-90		10:45					X	Hold

Company Name: Petra Geotechnical Inc. Project Contact: Jon Cain Sampler's Signature: [Signature]

Address: 38655 Sky Canyon Dr. Tel: 951-600-9271 Project Name/ID: 361-11

City/State/Zip: Mesquite, CA 92563 Fax: 951-600-9271

Relinquished by: [Signature] Date: 12-01-11 4:00 Date & Time: 11/11/11 1600

Relinquished by: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other: \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: December 8, 2011

Mr. Jon Cain  
Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel(951)600-9271 Fax(951)600-9215

Project: **361-11**  
Lab I.D.: **111201-63 through -135**

Dear Mr. Cain:

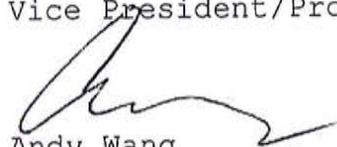
The **analytical results** for the soil and water samples, received by our lab on December 1, 2011, are attached. The samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manager



Andy Wang  
Laboratory Manager

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/08/11

-----  
TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS  
METHOD: EPA 8015B  
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM  
-----

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
B-1@.5'	111201-63	ND	12.9*	115	1
B-2@.5'	111201-65	ND	ND	85.5	1
B-3@.5'	111201-67	ND	ND	54.9	1
B-4@.5'	111201-69	ND	ND	ND	1
B-5@.5'	111201-71	ND	ND	ND	1
B-6@.5'	111201-74	ND	ND	ND	1
B-11@.5'	111201-87	ND	ND	55.1	1
B-12@.5'	111201-89	ND	ND	ND	1
B-13@.5'	111201-91	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
	PQL	10	10	50	

### COMMENTS

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

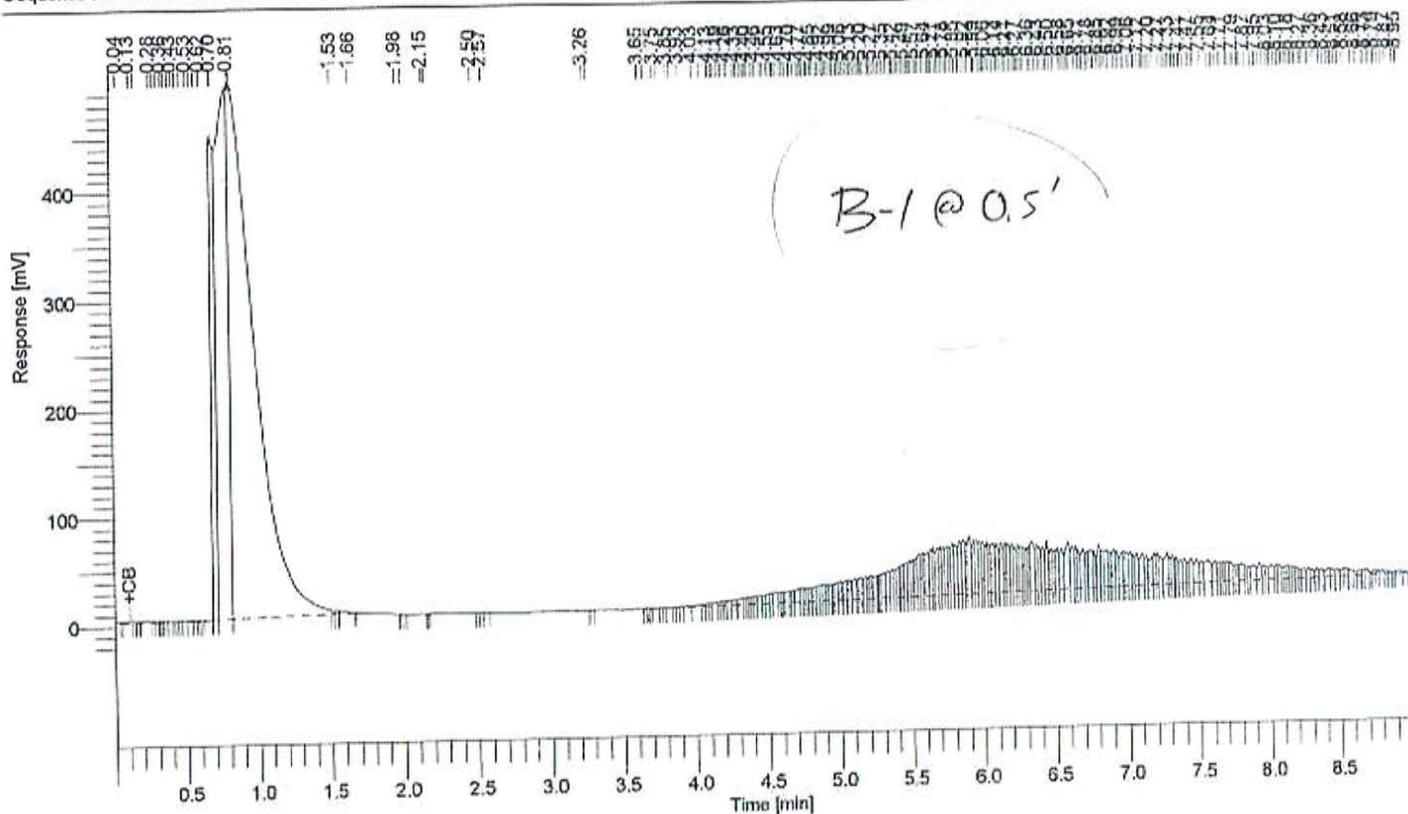
\* = PEAKS IN DIESEL RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF DIESEL STANDARD

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646  
 Sample Name : 111201-63 20/2  
 Instrument Name : GC-I  
 Rack/Vial : 0/14  
 Sample Amount : 1.000000  
 Cycle : 21

Date : 12/6/2011 3:26:33 PM  
 Data Acquisition Time : 12/5/2011 1:29:10 PM  
 Channel : A  
 Operator : tprocess  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-1111205\A025.rst  
 Sequence File : D:\GC DATA\GC-1111205\111205.seq



## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	7373	38.2
C11-C22	924510	128.7
C23-C35	5213162	1150.6
	6145046	1317.4

## 8015B QA/QC Report

Date Analyzed: 12/5/2011

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111201-69 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2490	100%	2512	100%	1%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	190	95%	75-125

Analyzed and Reviewed By: ZC

Final Reviewer: (A)

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
**38655 Sky Canyon Drive**  
**Murrieta, CA 92563**  
**Tel (951) 600-9271 Fax (951) 600-9215**

PROJECT: **361-11** DATE RECEIVED: 12/01/11  
 MATRIX: SOIL DATE EXTRACTED: 12/02/11  
 DATE SAMPLED: 12/01/11 DATE ANALYZED: 12/02/11  
 REPORT TO: MR. JON CAIN DATE REPORTED: 12/08/11

**PCBs ANALYSIS**

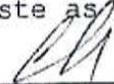
METHOD: EPA 8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
B-10@.5	111201-83	ND	1							
B-10@.5 Dup	111201-84	ND	1							
Method Blank		ND	1							
	<b>PQL</b>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	

**COMMENTS**

DF = Dilution Factor  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = DF X PQL  
 ND = Non-Detected Or Below the Actual Detection Limit  
 \* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260  
 \*\*\* = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# QA/QC Report

## Analysis: EPA 8082 (PCB)

Matrix: **Soil/Solid/Liquid/Sludge** Date Analyzed: **12/2/2011**  
 Unit: **mg/Kg (PPM)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spiked Sample Lab I.D.: **111202-LCS 1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0.00	1.00	0.834	83%	0.924	92%	10%	0-20%	70-130

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.088	88%	75-125

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: ZC

Final Reviewer: Q

## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: <b>361-11</b>	DATE RECEIVED: <u>12/01/11</u>
MATRIX: <u>WATER</u>	DATE EXTRACTED: <u>12/06/11</u>
DATE SAMPLED: <u>12/01/11</u>	DATE ANALYZED: <u>12/06/11</u>
REPORT TO: <u>MR. JON CAIN</u>	DATE REPORTED: <u>12/08/11</u>

**PCBs ANALYSIS**

METHOD: EPA 8082

UNIT:  $\mu\text{G/L}$  = MICROGRAM PER LITER = PPB

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
<u>B-10-Rinsate</u>	<u>111201-86</u>	ND	<u>1</u>							
<u>Method Blank</u>		ND	<u>1</u>							
	<b>PQL</b>	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	

**COMMENTS**

DF = Dilution Factor  
 PQL = Practical Quantitation Limit  
 Actual Detection Limit = DF X PQL  
 ND = Non-Detected Or Below the Actual Detection Limit  
 \* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260

Data Reviewed and Approved by:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## QA/QC Report

Analysis: EPA 8082 (PCB)

Matrix: **Water/Liquid**  
 Unit: ug/L (PPB)

Date Analyzed: 12/6/2011

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111201-86 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP % RPD	ACP %REC
PCB (1016+1260)	0	100	78.5	79%	71.5	72%	9%	0-20%	70-130

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	10.0	9.0	90%	75-125

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: ZC

Final Reviewer: 

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-4@.5'

LAB I.D.: 111201-69

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

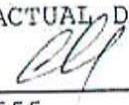
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-6@.5'

LAB I.D.: 111201-74

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-7@.5'

LAB I.D.: 111201-77

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

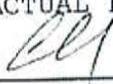
### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-8@.5' LAB I.D.: 111201-79

### Organochlorine Pesticides Analysis

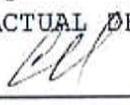
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-9@.5'

LAB I.D.: 111201-81

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

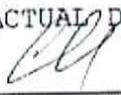
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-10@.5'

LAB I.D.: 111201-83

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

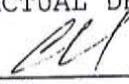
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-12@.5' LAB I.D.: 111201-89

Organochlorine Pesticides Analysis  
 Method: EPA 8081A  
 Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-13@.5'

LAB I.D.: 111201-91

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-14@.5', B-15@.5' (COMPOSITE)  
LAB I.D.: 111201-93, -95 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

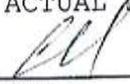
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

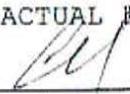
SAMPLE I.D.: B-16@.5', B-17@.5' (COMPOSITE)  
 LAB I.D.: 111201-97, -99 (COMPOSITE)

**Organochlorine Pesticides Analysis**  
 Method: EPA 8081A  
 Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-18@.5', B-19@.5' (COMPOSITE)  
LAB I.D.: 111201-101, -104 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

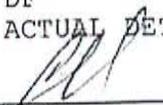
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel(951) 600-9271 Fax(951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-18@.5', B-19@.5' DUP (COMPOSITE)  
 LAB I.D.: 111201-101, -105 (COMPOSITE)

### Organochlorine Pesticides Analysis

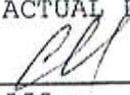
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
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Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

MATRIX: SOIL

DATE SAMPLED: 12/01/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11

DATE EXTRACTED: 12/02/11

DATE ANALYZED: 12/02/11

DATE REPORTED: 12/08/11

SAMPLE I.D.: B-20@.5', B-21@.5' (COMPOSITE)

LAB I.D.: 111201-107, -109 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

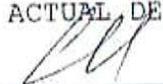
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-22@.5', B-23@.5' (COMPOSITE)  
LAB I.D.: 111201-111, -113 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

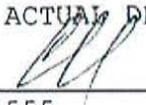
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
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Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

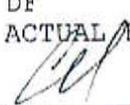
SAMPLE I.D.: B-22@.5', B-23@.5' DUP (COMPOSITE)  
LAB I.D.: 111201-111, -114 (COMPOSITE)

Organochlorine Pesticides Analysis  
Method: EPA 8081A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-24@.5', B-25@.5' (COMPOSITE)  
 LAB I.D.: 111201-117, -119 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-26@.5', B-27@.5' (COMPOSITE)  
 LAB I.D.: 111201-121, -125 (COMPOSITE)

### Organochlorine Pesticides Analysis

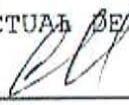
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-26@.5'DUP, B-27@.5' (COMPOSITE)  
 LAB I.D.: 111201-122, -125 (COMPOSITE)

### Organochlorine Pesticides Analysis

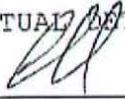
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
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 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/02/11  
 DATE ANALYZED: 12/02/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-28@.5', B-29@.5' (COMPOSITE)  
 LAB I.D.: 111201-127, -129 (COMPOSITE)

### Organochlorine Pesticides Analysis

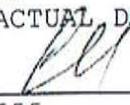
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-30@.5', B-31@.5' (COMPOSITE)  
LAB I.D.: 111201-131, -133 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

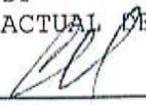
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/02/11  
DATE ANALYZED: 12/02/11  
DATE REPORTED: 12/08/11

METHOD BLANK FOR LAB I.D.:

111201-69, -71, -74, -77, -79, -81, -83, -87, -89, -91,  
111201-93, -95 (COMPOSITE), 111201-97, -99 (COMPOSITE),  
111201-101, -104 (COMPOSITE), -111201-101, 105 (COMPOSITE),  
111201-107, -109 (COMPOSITE), 111201-111, -113 (COMPOSITE),  
111201-111, -114 (COMPOSITE), 111201-117, -119 (COMPOSITE),  
111201-121, -125 (COMPOSITE), 111201-122, -125 (COMPOSITE),  
111201-127, -129 (COMPOSITE), 111201-131, -133 (COMPOSITE)

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766      Tel (909)590-5905 Fax (909)590-5907

## EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid**

Date Analyzed: **12/2/2011**

Unit: **mg/Kg (ppm)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 111201-122,125 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.0500	0.0550	<b>110%</b>	0.0481	<b>96%</b>	<b>13%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0.000	0.0500	0.0536	<b>107%</b>	0.0482	<b>96%</b>	<b>11%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0.000	0.0500	0.0416	<b>83%</b>	0.0348	<b>70%</b>	<b>18%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00474	<b>95%</b>	<b>75-125</b>
Aldrin	0.00500	0.00427	<b>85%</b>	<b>75-125</b>
4,4-DDE	0.00500	0.00513	<b>103%</b>	<b>75-125</b>
Dieldrin	0.00500	0.00513	<b>103%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	111201-122,125	111201-127,129	111201-131,133				
Tetra-chloro-meta-xylene	50-150	102%	124%	83%	132%				
Decachlorobiphenyl	50-150	60%	97%	71%	84%				

Surrogate Recovery	%REC								
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobiphenyl									

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>						
Tetra-chloro-meta-xylene						
Decachlorobiphenyl						

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

\* = Surrogate fail due to matrix interference (If Marked)

Note: LCS, MS, MSD are in control therefore results are in control.

Analyzed and Reviewed By: 

Final Reviewer: 

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: WATER  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/06/11  
 DATE ANALYZED: 12/06/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-31-Rinsate LAB I.D.: 111201-135

## Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.100	1
alpha-BHC	ND	0.100	1
beta-BHC	ND	0.100	1
gamma-BHC (Lindane)	ND	0.100	1
delta-BHC	ND	0.100	1
alpha-Chlordane	ND	0.100	1
gamma-Chlordane	ND	0.100	1
Technical Chlordane	ND	0.500	1
4,4'-DDD	ND	0.100	1
4,4'-DDE	ND	0.100	1
4,4'-DDT	ND	0.100	1
Dieldrin	ND	0.100	1
Endosulfan I	ND	0.100	1
Endosulfan II	ND	0.100	1
Endosulfan Sulfate	ND	0.100	1
Endrin	ND	0.100	1
Endrin Aldehyde	ND	0.100	1
Endrin Ketone	ND	0.100	1
Heptachlor Epoxide	ND	0.100	1
Heptachlor	ND	0.100	1
Methoxychlor	ND	0.100	1
Toxaphene	ND	20.0	1

### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Non detected or below the Actual Detection Limit

Data Reviewed and Approved by:  
 CAL-DHS CERTIFICATE # 1555



## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: WATER  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/06/11  
DATE ANALYZED: 12/06/11  
DATE REPORTED: 12/08/11

METHOD BLANK FOR LAB I.D.: 111201-135

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: ug/L = Microgram per Liter = PPB

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.100	1
alpha-BHC	ND	0.100	1
beta-BHC	ND	0.100	1
gamma-BHC (Lindane)	ND	0.100	1
delta-BHC	ND	0.100	1
alpha-Chlordane	ND	0.100	1
gamma-Chlordane	ND	0.100	1
Technical Chlordane	ND	0.500	1
4,4'-DDD	ND	0.100	1
4,4'-DDE	ND	0.100	1
4,4'-DDT	ND	0.100	1
Dieldrin	ND	0.100	1
Endosulfan I	ND	0.100	1
Endosulfan II	ND	0.100	1
Endosulfan Sulfate	ND	0.100	1
Endrin	ND	0.100	1
Endrin Aldehyde	ND	0.100	1
Endrin Ketone	ND	0.100	1
Heptachlor Epoxide	ND	0.100	1
Heptachlor	ND	0.100	1
Methoxychlor	ND	0.100	1
Toxaphene	ND	20.0	1

#### COMMENTS

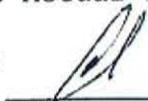
DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Non detected or below the Actual Detection Limit

Data Reviewed and Approved by:  
CAL-DHS CERTIFICATE # 1555



**Enviro-Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

## EPA 8081 QA/QC Report

Matrix: Water/Liquid  
Unit: ug/L

Date Analyzed: 12/6/2011

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 111201-86 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0	5.00	6.51	<b>130%</b>	5.80	<b>116%</b>	<b>12%</b>	<b>0-20%</b>	<b>70-130</b>
Aldrin	0	5.00	5.35	<b>107%</b>	6.03	<b>121%</b>	<b>12%</b>	<b>0-20%</b>	<b>70-130</b>
4,4-DDE	0	5.00	5.04	<b>101%</b>	4.82	<b>96%</b>	<b>4%</b>	<b>0-20%</b>	<b>70-130</b>

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.500	0.569	<b>114%</b>	<b>75-125</b>
Aldrin	0.500	0.517	<b>103%</b>	<b>75-125</b>
4,4-DDE	0.500	0.411	<b>82%</b>	<b>75-125</b>
Dieldrin	0.500	0.441	<b>88%</b>	<b>75-125</b>

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	<del>111201-86</del>	<del>111201-135</del>	111202-4				
Tetra-chloro-meta-xylene	50-150	115%	<del>97%</del>	103%	116%				
Decachlorobipneyl	50-150	66%	<del>67%</del>	76%	51%				

Surrogate Recovery	%REC								
<b>Sample I.D.</b>									
Tetra-chloro-meta-xylene									
Decachlorobipneyl									

Surrogate Recovery	%REC						
<b>Sample I.D.</b>							
Tetra-chloro-meta-xylene							
Decachlorobipneyl							

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: ZC  
 Final Reviewer: [Signature]

\* = Surrogate fail due to matrix interference  
 Note: LCS, MS, MSD are in control therefore results are in control.

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/06/11  
 DATE ANALYZED: 12/06/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-14@.5', B-15@.5' (COMPOSITE)  
 LAB I.D.: 111201-93, -95 (COMPOSITE)

### Organophosphorus Pesticides Analysis

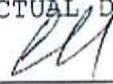
Method: EPA 8141A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/06/11  
DATE ANALYZED: 12/06/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-18@.5', B-19@.5' (COMPOSITE)  
LAB I.D.: 111201-101, -104 (COMPOSITE)

Organophosphorus Pesticides Analysis  
Method: EPA 8141A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

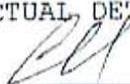
COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766      Tel (909)590-5905 Fax (909)590-5907

## EPA 8141A QA/QC Report

Matrix: **Solid/Soil/Sludge**  
Unit: mg/Kg (PPM)

Date Analyzed: **12/6-7/2011**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**  
**Spiked Sample Lab I.D.: 111202-20 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Bolstar	0.00	2.50	2.37	95%	2.51	100%	6%	0-30%	40-140
Ethoprop	0.00	2.50	2.68	107%	2.69	108%	0%	0-30%	40-140
Ronnel	0.00	2.50	3.09	124%	3.12	125%	1%	0-30%	40-140
Phorate	0.00	2.50	2.26	90%	2.31	92%	2%	0-30%	40-140

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Bolstar	0.250	0.241	96%	40-140
Ethoprop	0.250	0.239	96%	40-140
Ronnel	0.250	0.244	98%	40-140
Phorate	0.250	0.211	84%	40-140

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	111201-93,95	11201-101,104	111202-20	111202-21	111202-22	111202-23	
Tributyl Phosphate	40-140	81%	93%	108%	100%	95%	103%	98%	
Triphenyl Phosphate	40-140	45%	52%	64%	62%	58%	67%	64%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	111202-24	111202-25,28	111202-26,28	111206-2ABC	111206-3ABC	111206-4ABC	111206-5ABC	111206-6ABC	
Tributyl Phosphate	104%	104%	107%	124%	111%	119%	111%	128%	
Triphenyl Phosphate	79%	79%	78%	111%	113%	112%	104%	116%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	111206-21	111206-22	111206-23	111206-24	111206-25	
Tributyl Phosphate	117%	113%	115%	121%	121%	
Triphenyl Phosphate	127%	99%	107%	179*	107%	

S.R. = Sample Result  
spk conc = Spike Concentration  
%REC = Percent Recovery  
ACP %RPD = Acceptable Percent RPD Range  
ACP %REC = Acceptable Percent Recovery Range

\* = Surrogate fail due to matrix interference (If Marked)  
Note: LCS, MS, MSD are in control therefore results are in control.

Analyzed and Reviewed By:     AV    

Final Reviewer:     ⓪

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/06-07/11  
DATE ANALYZED: 12/07/11  
DATE REPORTED: 12/08/11

SAMPLE I.D.: B-14@.5', B-15@.5' (COMPOSITE)  
LAB I.D.: 111201-93, -95 (COMPOSITE)

### Chlorinated Herbicides Analysis

Method: EPA 8151A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/01/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
 DATE EXTRACTED: 12/06-07/11  
 DATE ANALYZED: 12/07/11  
 DATE REPORTED: 12/08/11

SAMPLE I.D.: B-18@.5', B-19@.5' (COMPOSITE)  
 LAB I.D.: 111201-101, -104 (COMPOSITE)

Chlorinated Herbicides Analysis

Method: EPA 8151A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/01/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/01/11  
DATE EXTRACTED: 12/06-07/11  
DATE ANALYZED: 12/07/11  
DATE REPORTED: 12/08/11

METHOD BLANK FOR LAB I.D.:  
111201-93, -95 (COMPOSITE), 111201-101, -104 (COMPOSITE)

Chlorinated Herbicides Analysis  
Method: EPA 8151A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

**COMMENTS:**

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# QA/QC Report

## Analysis: EPA 8151A

Matrix: **Soil/Solid**  
 Unit: **mg/Kg (PPM)**

Date Analyzed: **12/7-8/2011**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 111207-LCS 1/2**

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	0.500	0.637	127%	0.685	137%	7%	0-20%	50-150

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.0500	0.0458	92%	70-130
2,4,5-TP	0.0500	0.0555	111%	70-130
2,4-DB	0.500	0.367	73%	70-130

**Surrogate Recovery:**

Analyte	ACP %	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample ID:</b>		M-BLK	111201-93,95	111201-101,104	111202-25,28	111202-26,28	111206-2ABC	111206-3ABC	111206-4ABC
DCAA	50-150	142%	128%	128%	132%	148%	131%	131%	138%
Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample ID:</b>	111206-5ABC	111206-6ABC							
DCAA	106%	129%							
Analyte	%REC	%REC	%REC	%REC					
<b>Sample ID:</b>									
DCAA									

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 







**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
8015B 8081A 8141A 8151A CH DTP					
Soil	1		None	X X X composite	B-19 @ .5' B-19 @ .5' + Dupe
				X	Hold
				X X X composite	B-20 @ .5' B-21 @ .5' + Hold
				X	Hold
				X X X composite	B-21 @ .5' B-22 @ .5' + Hold
				X	Hold
				X X X composite	B-22 @ .5' B-23 @ .5' + Hold
				X	Hold
				X X X composite	B-23 @ .5' B-22 @ .5' + Dupe
				X	Hold
				X X X composite	B-23 @ .5' B-22 @ .5' + Hold
				X	Hold

Company Name: Petra Geotechnical Inc.  
 Address: 38655 Sky Canyon Dr.  
 City/State/Zip: Merritt, CA 92563  
 Project Contact: Jon Cain  
 Tel: 951-600-9271  
 Fax: 951-600-9271  
 Project Name/ID: 361-11  
 Sampler's Signature: [Signature]  
 Date & Time: 12/11/11 1600  
 Received by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT



**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other: \_\_\_\_\_

Misc./PO#	
8015B	OCF
8081A	OCF
8141A	OCF
8151A	OCF

SAMPLE ID	LAB ID	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS	SAMPLING DATE	SAMPLING TIME
								DATE	TIME
B-30 @ 2.5	111201-131	soil	1		NONE	Composite	B-30 @ 2.5'	12-01-11	3:00
B-30 @ 2.5	132					Hold	B-31 @ 2.5'		3:02
B-31 @ 2.5	133					Composite	B-31 @ 2.5'		3:09
B-31 @ 2.5	134					Hold	B-30 @ 2.5'		3:11
B-31 Rinseate	135	water				Rinseate Equipment	B-30 @ 2.5'		3:20

Company Name: Patra Geotechnical Inc. Project Contact: Jon Cain Sampler's Signature: [Signature]

Address: 38655 Sky Canyon Dr. Tel: 951-600-9271 Project Name/ID: 361-11

City/State/Zip: Merrieta, CA 92563 Fax: [Signature]

Relinquished by: [Signature] Received by: [Signature] Date & Time: 12-01-11 4:00

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other: \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: December 9, 2011

Mr. Jon Cain  
Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

Project: **361-11**  
Lab I.D.: **111202-25 through -97**

Dear Mr. Cain:

The **analytical results** for the soil and water samples, received by our lab on December 2, 2011, are attached. The samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manager



Andy Wang  
Laboratory Manager

## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: **361-11**

MATRIX: SOIL

DATE SAMPLED: 12/02/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11

DATE EXTRACTED: 12/05/11

DATE ANALYZED: 12/05/11

DATE REPORTED: 12/09/11

**TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS**

METHOD: EPA 8015B

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
B-2@.5'	111202-30	ND	ND	66.1	1
B-11@.5'	111202-31	ND	214*	1460	10
B-40@.5'	111202-46	ND	ND	ND	1
B-40@.5'Dup	111202-47	ND	ND	ND	1
B-45@.5'	111202-58	ND	ND	ND	1
B-62@.5'	111202-95	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
PQL		10	10	50	

**COMMENTS**

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

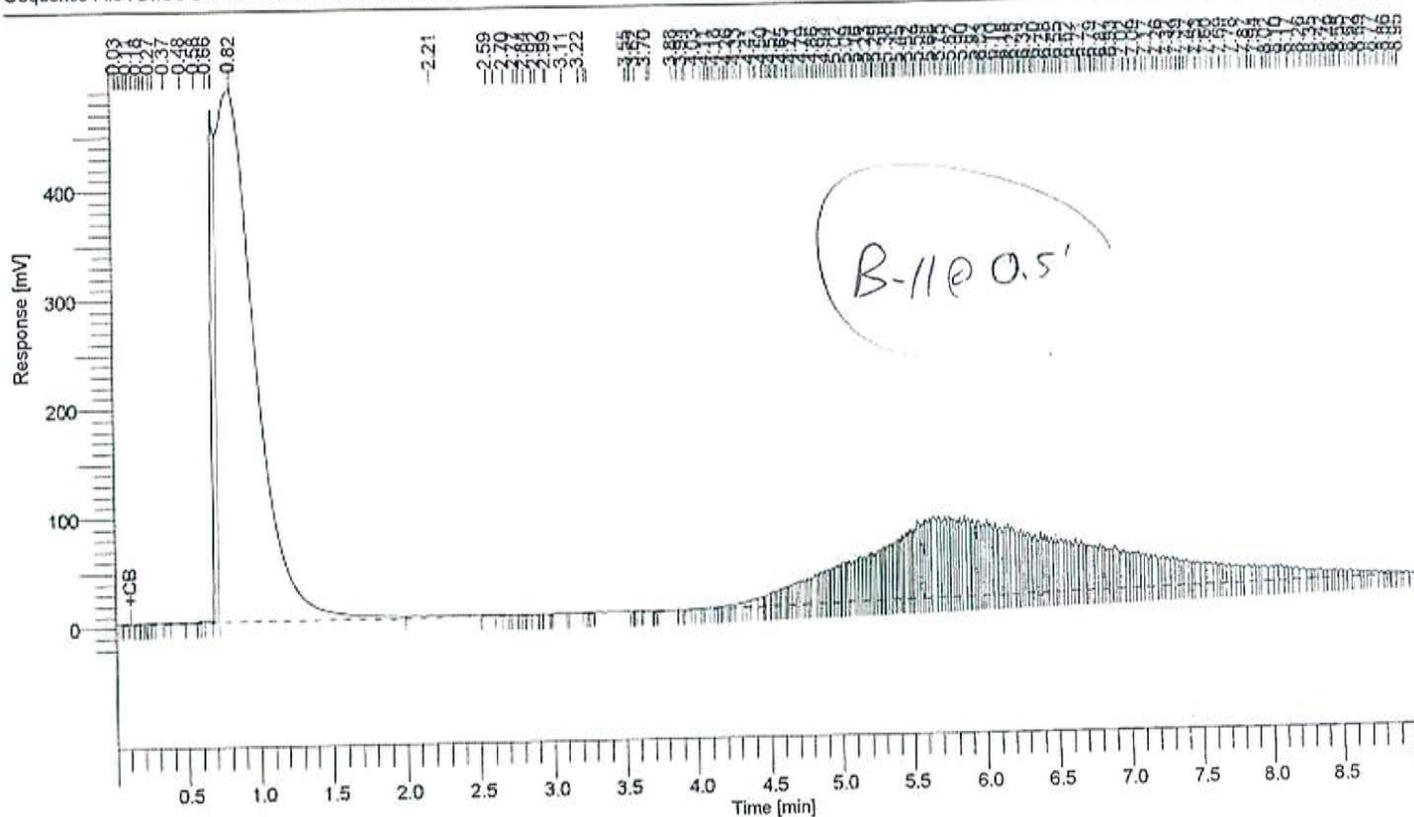
\* = PEAKS IN DIESEL RANGE BUT CHROMATOGRAM DOES NOT MATCH THAT OF DIESEL STANDARD

Data Reviewed and Approved by:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646  
 Sample Name : 111202-31 20/20 RE  
 Instrument Name : GC-I  
 Rack/Vial : 0/29  
 Sample Amount : 1.000000  
 Cycle : 40

Date : 12/6/2011 3:25:41 PM  
 Data Acquisition Time : 12/5/2011 5:19:29 PM  
 Channel : A  
 Operator : tcprocess  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-I\111205\A044.rst  
 Sequence File : D:\GC DATA\GC-I\111205\111205.seq



## 8015 Results

Component Name	Area [uV*sec]	Adjusted Amount
C4-C10	27598	42.8
C11-C22	1662107	213.9
C23-C35	6613652	1459.4
	8303357	1716.0

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

## 8015B QA/QC Report

Date Analyzed: 12/5/2011

Units: mg/Kg (ppm)

Matrix: Soil/Solid/Sludge/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111201-69 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11~C22 Range	0	2500	2490	100%	2512	100%	1%	75-125	0-20%

LCS STD RECOVERY:

Analyte	spk conc	LCS	% REC	ACP
C11~C22 Range	200	190	95%	75-125

Analyzed and Reviewed By: 

Final Reviewer: 

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

MATRIX: WATER

DATE SAMPLED: 12/02/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11

DATE EXTRACTED: 12/05/11

DATE ANALYZED: 12/05/11

DATE REPORTED: 12/09/11

-----  
TOTAL PETROLEUM HYDROCARBONS (TPH) - CARBON CHAIN ANALYSIS

METHOD: EPA 8015B

UNIT: ug/L = MICROGRAM PER LITER = PPB

-----

SAMPLE I.D.	LAB I.D.	C4-C10	C11-C22	C23-C35	DF
B-40 Rinsate	111202-49	ND	ND	ND	1
METHOD BLANK		ND	ND	ND	1
	PQL	500	500	3000	

-----

## COMMENTS

C4-C10 = GASOLINE RANGE

C11-C22 = DIESEL RANGE

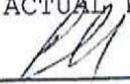
C23-C35 = MOTOR OIL RANGE

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = DF X PQL

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

Data Reviewed and Approved by:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro Chem, Inc

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

### 8015B QA/QC Report

Date Analyzed: 12/5/2011

Units: ug/L (PPB)

Matrix: Water/Liquid

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **111201-45 MS/MSD**

Analyte	SR	spk conc	MS	%MS	MSD	%MSD	%RPD	ACP %MS	ACP RPD
C11-C22 RANGE	0	150000	143000	95%	149000	99%	4%	75-125	0-20%

**LCS STD RECOVERY:**

Analyte	spk conc	LCS	% REC	ACP
C11-C22 RANGE	12000	14200	118%	75-125

Analyzed and Reviewed by: ZC

Final Reviewer: Q

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

MATRIX: SOIL

DATE SAMPLED: 12/02/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11

DATE ANALYZED: 12/06/11

DATE REPORTED: 12/09/11

EPA 6010B FOR TTLC-LEAD

UNITS: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	TTLC-LEAD RESULT	DF
<u>B-48@.5', B-49@.5'</u> (COMPOSITE)	<u>111202-64, -67</u> (COMPOSITE)	6.06	1
<u>B-48@.5' DUP, B-49@.5'</u> (COMPOSITE)	<u>111202-65, -67</u> (COMPOSITE)	7.65	1
<u>B-50@.5', B-51@.5'</u> (COMPOSITE)	<u>111202-69, -71</u> (COMPOSITE)	53.0 *	1
<u>B-52@.5', B-53@.5'</u> (COMPOSITE)	<u>111202-73, -76</u> (COMPOSITE)	5.37	1
<u>B-52@.5' DUP, B-53@.5'</u> (COMPOSITE)	<u>111202-75, -76</u> (COMPOSITE)	5.17	1
<u>B-54@.5', B-55@.5'</u> (COMPOSITE)	<u>111202-78, -80</u> (COMPOSITE)	55.1 *	1
<u>B-56@.5', B-57@.5'</u> (COMPOSITE)	<u>111202-82, -84</u> (COMPOSITE)	327 *	1
<u>B-58@.5', B-59@.5'</u> (COMPOSITE)	<u>111202-86, -88</u> (COMPOSITE)	258 *	1
<u>B-60@.5', B-61@.5'</u> (COMPOSITE)	<u>111202-90, -93</u> (COMPOSITE)	182 *	1
<u>B-60@.5' DUP, B-61@.5'</u> (COMPOSITE)	<u>111202-91, -93</u> (COMPOSITE)	176 *	1
Method Blank	---	ND	1

PQL

0.50

COMMENTS:

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = DF X PQL

ND = Non-Detected or below the Actual Detection Limit

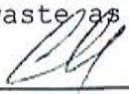
TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

STLC Limit for lead = 5 PPM

\* = STLC analysis is recommended (if marked)

\*\*\* = The concentration exceeds the TTLC Limit @ 1000 PPM, therefore the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# QA/QC for Metals Analysis -- TTLC--SOLID/SOIL MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

Unit : *mg/Kg(ppm)*

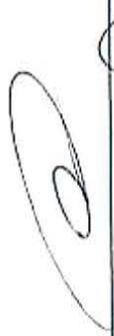
ANALYSIS DATE: 12/6/2011										
Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD
Arsenic(As)	111202-8	1.00	104	PASS	0	50.0	50.7	101%	51.6	103%
Cadmium(Cd)	111202-8	1.00	109	PASS	0	50.0	47.1	94%	47.8	96%
Lead(Pb)	111202-8	1.00	108	PASS	0	50.0	44.8	90%	45.4	91%

## ANALYSIS DATE: 12/5/2011

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD
Mercury (Hg)	111205-LCS	0.125	94	PASS	0	0.125	0.110	88%	0.105	84%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenic(As)	PASS	PASS	PASS	PASS
Cadmium(Cd)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: 

FINAL REVIEWER: 

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

MATRIX: WATER

DATE SAMPLED: 12/02/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11

DATE ANALYZED: 12/05/11

DATE REPORTED: 12/09/11

SAMPLE I.D.: B-61 Rinsate

LAB I.D.: 111202-97

## TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Lead (Pb)	ND	0.01	1	200.7

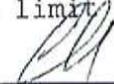
## COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

MATRIX: WATER

DATE SAMPLED: 12/02/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11

DATE ANALYZED: 12/05/11

DATE REPORTED: 12/09/11

METHOD BLANK FOR LAB I.D.: 111202-97

### TOTAL METALS ANALYSIS

UNIT: mg/L = MILLIGRAM PER LITER = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	EPA METHOD
Lead(Pb)	ND	0.01	1	200.7

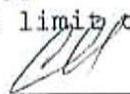
### COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection limit or non-detected

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# QA/QC for TLIC Metals Analysis --WATER MATRIX

## Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 12/5/2011

Unit : mg/L(ppm)

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Copper(Cu)	111202-97	1.00	86	PASS	0	1.00	1.03	103%	0.944	94%	9%
Lead(Pb)	111202-97	1.00	98	PASS	0	1.00	1.12	112%	1.07	107%	5%
Selenium(Se)	111202-97	1.00	86	PASS	0	1.00	1.06	106%	0.991	99%	7%

ANALYSIS DATE : 12/1/2011

Analysis	Spk.Sample BATCH ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	111130-17	0.00250	98	PASS	0	0.00250	0.00201	80%	0.00213	85%	6%

## MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Selenium(Se)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
<b>Accepted Range</b>	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: \_\_\_\_\_

FINAL REVIEWER: \_\_\_\_\_

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-32@.5', B-33@.5' (COMPOSITE)  
LAB I.D.: 111202-25, -28 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

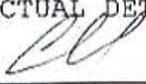
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-32@.5'DUP, B-33@.5' (COMPOSITE)  
LAB I.D.: 111202-26, -28 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

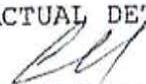
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel(951) 600-9271 Fax(951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-34@.5', B-35@.5' (COMPOSITE)  
LAB I.D.: 111202-33, -35 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

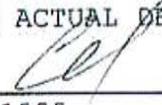
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-36@.5', B-37@.5' (COMPOSITE)  
LAB I.D.: 111202-37, -39 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

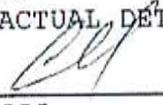
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-38@.5', B-39@.5' (COMPOSITE)  
LAB I.D.: 111202-41, -43 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

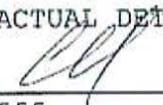
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: **361-11**

MATRIX: SOIL

DATE SAMPLED: 12/02/11

REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11

DATE EXTRACTED: 12/05/11

DATE ANALYZED: 12/05/11

DATE REPORTED: 12/09/11

SAMPLE I.D.: **B-38@.5', B-39@.5' DUP (COMPOSITE)**

LAB I.D.: **111202-41, -44 (COMPOSITE)**

**Organochlorine Pesticides Analysis**

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: \_\_\_\_\_

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

DATE RECEIVED: 12/02/11

MATRIX: SOIL

DATE EXTRACTED: 12/05/11

DATE SAMPLED: 12/02/11

DATE ANALYZED: 12/05/11

REPORT TO: MR. JON CAIN

DATE REPORTED: 12/09/11

SAMPLE I.D.: B-40@.5', B-41@.5' (COMPOSITE)

LAB I.D.: 111202-46, -50 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: \_\_\_\_\_  
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-40@.5'DUP, B-41@.5' (COMPOSITE)  
LAB I.D.: 111202-47, -50 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

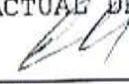
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-42@.5', B-43@.5' (COMPOSITE)  
LAB I.D.: 111202-52, -54 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

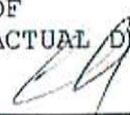
**COMMENTS:**

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

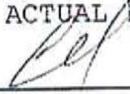
SAMPLE I.D.: B-44@.5', B-45@.5' (COMPOSITE)  
LAB I.D.: 111202-56, -58 (COMPOSITE)

Organochlorine Pesticides Analysis  
Method: EPA 8081A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
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Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-46@.5', B-47@.5' (COMPOSITE)  
LAB I.D.: 111202-60, -62 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

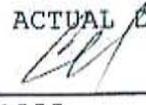
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
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DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-48@.5', B-49@.5' (COMPOSITE)  
LAB I.D.: 111202-64, -67 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
Technical Chlordane	ND	0.005	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxychlor	ND	0.001	10*
Toxaphene	ND	0.020	10*

#### COMMENTS:

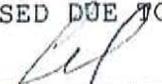
DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

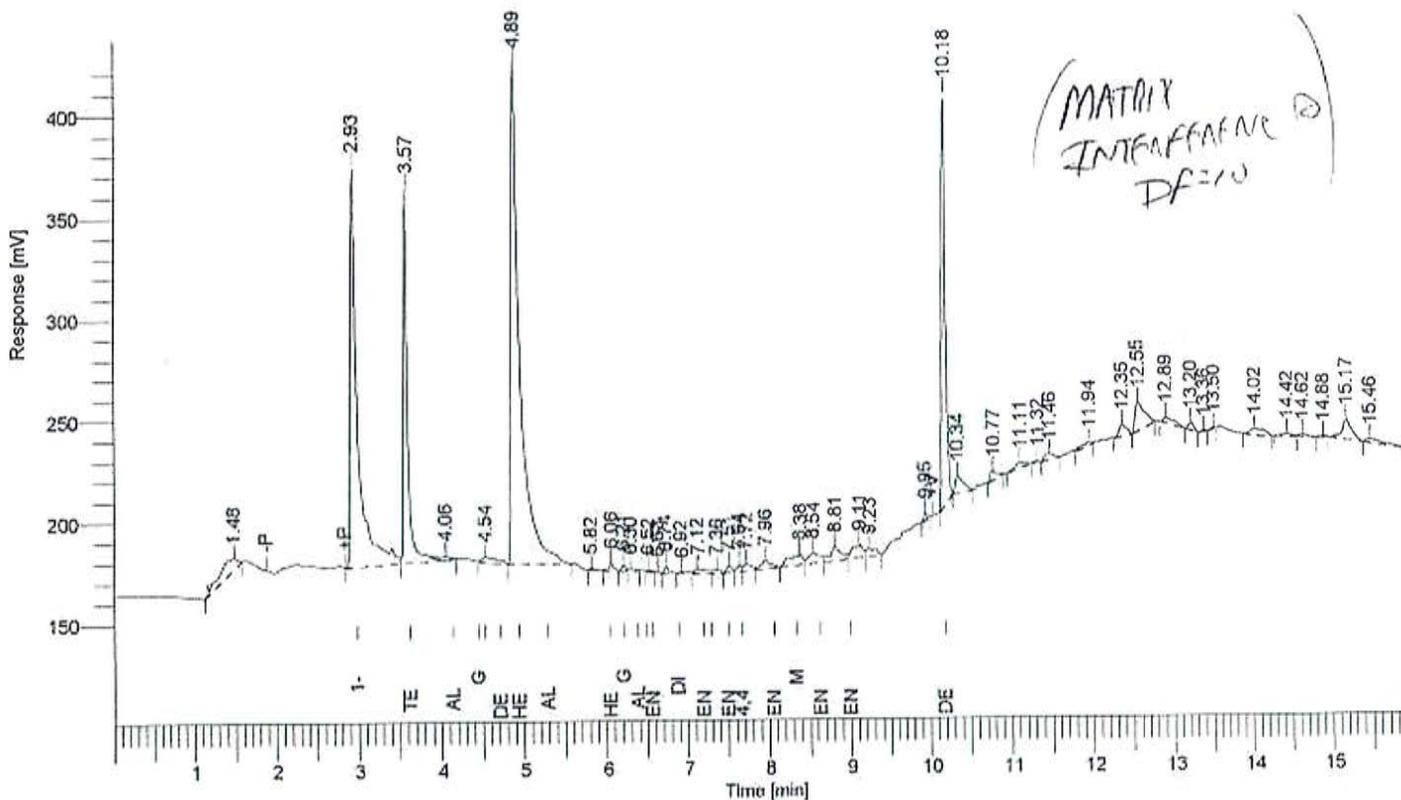
\* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646  
 Sample Name : 111202-64,67 20/20  
 Instrument Name : GC-E  
 Rack/Vial : 0/6  
 Sample Amount : 1.000000  
 Cycle : 7

Date : 12/6/2011 2:23:01 PM  
 Data Acquisition Time : 12/5/2011 12:59:31 PM  
 Channel : A  
 Operator : tcprocess  
 Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-E\111205\A007.rst  
 Sequence File : D:\GC DATA\GC-E\111205\111205.seq



Results

Component Name	Time [min]	Area [uV*sec]	Height [uV]	Adjusted Amount
1-Bromo-2-Nitrobenze	2.93	1257006	196054	-----
Tetra chloro-meta-xy	3.57	630842	180621	91.6859
Alpha-BHC	4.06	16414	1876	0.0005
Heptachlor	4.89	1837870	247998	0.0614
Gamma Chlordane	6.06	12381	3419	0.0004
Alpha-Chlordane	6.30	5128	1019	0.0002
Endosulfan I	6.52	2933	870	0.0001
Dieldrin	6.74	14697	3667	0.0005
Endrin	7.12	22627	2220	0.0011
Endosulfan II	7.36	11180	1670	0.0005
4,4' DDT	7.51	13554	3088	0.0007
Endrin Aldehyde	7.96	32696	4025	0.0015
Endosulfan Sulfate	8.54	49699	4958	0.0022
Endrin Ketone	8.81	59607	6769	0.0023
Decachlorobiphenyl	10.18	633630	199162	64.6530
		4600263	857417	156.4104

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel(951)600-9271 Fax(951)600-9215

PROJECT: **361-11** DATE RECEIVED: 12/02/11  
 MATRIX: SOIL DATE EXTRACTED: 12/05/11  
 DATE SAMPLED: 12/02/11 DATE ANALYZED: 12/05/11  
 REPORT TO: MR. JON CAIN DATE REPORTED: 12/09/11

SAMPLE I.D.: **B-48@.5'DUP,B-49@.5' (COMPOSITE)**  
 LAB I.D.: **111202-65,-67 (COMPOSITE)**

### Organochlorine Pesticides Analysis

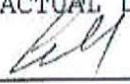
Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/02/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
 DATE EXTRACTED: 12/05/11  
 DATE ANALYZED: 12/05/11  
 DATE REPORTED: 12/09/11

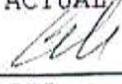
SAMPLE I.D.: B-50@.5', B-51@.5' (COMPOSITE)  
 LAB I.D.: 111202-69, -71 (COMPOSITE)

**Organochlorine Pesticides Analysis**  
 Method: EPA 8081A  
 Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: **Petra Geotechnical Inc.**  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: **361-11** DATE RECEIVED: 12/02/11  
MATRIX: SOIL DATE EXTRACTED: 12/05/11  
DATE SAMPLED: 12/02/11 DATE ANALYZED: 12/05/11  
REPORT TO: MR. JON CAIN DATE REPORTED: 12/09/11

SAMPLE I.D.: B-52@.5', B-53@.5' (COMPOSITE)  
LAB I.D.: 111202-73, -76 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

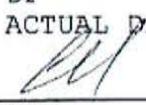
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/02/11  
 REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
 DATE EXTRACTED: 12/05/11  
 DATE ANALYZED: 12/05/11  
 DATE REPORTED: 12/09/11

SAMPLE I.D.: B-54@.5', B-55@.5' (COMPOSITE)  
 LAB I.D.: 111202-78, -80 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

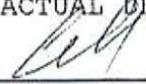
**COMMENTS:**

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-56@.5', B-57@.5' (COMPOSITE)  
LAB I.D.: 111202-82, -84 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	0.002	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

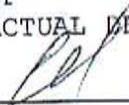
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-58@.5', B-59@.5' (COMPOSITE)  
LAB I.D.: 111202-86, -88 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

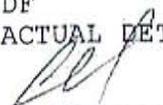
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN  
DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-60@.5', B-61@.5' (COMPOSITE)  
LAB I.D.: 111202-90, -93 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

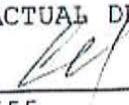
#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-60@.5'DUP, B-61@.5' (COMPOSITE)  
LAB I.D.: 111202-91, -93 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: \_\_\_\_\_  
CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/05/11  
DATE ANALYZED: 12/05/11  
DATE REPORTED: 12/09/11

METHOD BLANK FOR LAB I.D.:

111202-25, -28 (COMPOSITE), 111202-26, -28 (COMPOSITE), 111202-33, -35 (COMPOSITE),  
111202-37, -39 (COMPOSITE), 111202-41, -43 (COMPOSITE), 111202-41, -44 (COMPOSITE),  
111202-46, -50 (COMPOSITE), 111202-47, -50 (COMPOSITE), 111202-52, -54 (COMPOSITE),  
111202-56, -58 (COMPOSITE), 111202-60, -62 (COMPOSITE), 111202-64, -67 (COMPOSITE),  
111202-65, -67 (COMPOSITE), 111202-69, -71 (COMPOSITE), 111202-73, -76 (COMPOSITE),  
111202-78, -80 (COMPOSITE), 111202-82, -84 (COMPOSITE), 111202-86, -88 (COMPOSITE),  
111202-90, -93 (COMPOSITE), 111202-91, -93 (COMPOSITE)

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: \_\_\_\_\_  
CAL-DHS ELAP CERTIFICATE No.: 1555

# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766      Tel (909)590-5905 Fax (909)590-5907

## EPA 8081 QA/QC Report

Matrix: Soil/Solid/Liquid  
 Unit: mg/Kg (ppm)

Date Analyzed: 12/5/2011

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**  
**Spiked Sample Lab I.D.: 111202-25,28 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.0500	0.0544	109%	0.0543	109%	0%	0-20%	70-130
Aldrin	0.000	0.0500	0.0487	97%	0.0491	98%	1%	0-20%	70-130
4,4-DDE	0.000	0.0500	0.0453	91%	0.0445	89%	2%	0-20%	70-130

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00481	96%	75-125
Aldrin	0.00500	0.00481	96%	75-125
4,4-DDE	0.00500	0.00557	111%	75-125
Dieldrin	0.00500	0.00503	101%	75-125

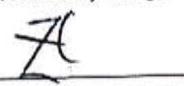
Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	111202-25,28	111202-26,28	111202-33,35	111202-37,39	111202-41,43	111202-41,44	
Tetra-chloro-meta-xylene	50-150	99%	80%	106%	104%	13%	105%	91%	
Decachlorobiphenyl	50-150	75%	55%	76%	68%	88%	78%	79%	

Surrogate Recovery	%REC	%REC							
<b>Sample I.D.</b>	111202-46,50	111202-47,50	111202-52,54	111202-56,58	111202-60,62	111202-64,67	111202-65,67	111202-69,71	
Tetra-chloro-meta-xylene	87%	89%	93%	95%	88%	92%	97%	99%	
Decachlorobiphenyl	70%	108%	71%	76%	75%	65%	54%	63%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>	111202-73,76	111202-78,80	111202-82,84	111202-86,88	111202-90,93	111202-91,93
Tetra-chloro-meta-xylene	75%	106%	107%	107%	108%	100%
Decachlorobiphenyl	67%	59%	58%	82%	66%	62%

S.R. = Sample Result  
 spk conc = Spike Concentration  
 %REC = Percent Recovery  
 ACP %RPD = Acceptable Percent RPD Range  
 ACP %REC = Acceptable Percent Recovery Range

\* = Surrogate fail due to matrix interference (If Marked)  
 Note: LCS, MS, MSD are in control therefore results are in control.

Analyzed and Reviewed By: 

Final Reviewer: 

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/06/11  
DATE ANALYZED: 12/06/11  
DATE REPORTED: 12/09/11

SAMPLE I.D.: B-52@.5', B-52@.5' DUP (COMPOSITE)  
LAB I.D.: 111202-73, -75 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: \_\_\_\_\_  
CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11

DATE RECEIVED: 12/02/11

MATRIX: SOIL

DATE EXTRACTED: 12/06/11

DATE SAMPLED: 12/02/11

DATE ANALYZED: 12/06/11

REPORT TO: MR. JON CAIN

DATE REPORTED: 12/09/11

METHOD BLANK FOR LAB I.D.: 111202-73,-75 (COMPOSITE)

### Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Technical Chlordane	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

#### COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555



## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/06/11  
DATE ANALYZED: 12/06/11  
DATE REPORTED: 12/09/11

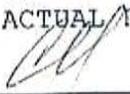
SAMPLE I.D.: B-32@.5', B-33@.5' (COMPOSITE)  
LAB I.D.: 111202-25, -28 (COMPOSITE)

Organophosphorus Pesticides Analysis  
Method: EPA 8141A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

**COMMENTS:**

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/06/11  
DATE ANALYZED: 12/06/11  
DATE REPORTED: 12/09/11

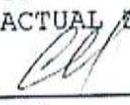
SAMPLE I.D.: B-32@.5'DUP, B-33@.5' (COMPOSITE)  
LAB I.D.: 111202-26, -28 (COMPOSITE)

Organophosphorus Pesticides Analysis  
Method: EPA 8141A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

**COMMENTS:**

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

## METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/06/11  
DATE ANALYZED: 12/06/11  
DATE REPORTED: 12/09/11

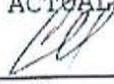
METHOD BLANK FOR LAB I.D.:  
111202-25, -28 (COMPOSITE), 111202-26, -28 (COMPOSITE)

Organophosphorus Pesticides Analysis  
Method: EPA 8141A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Azinphos Methyl	ND	0.05	1
Bolstar (Sulprofos)	ND	0.05	1
Chlorpyrifos	ND	0.05	1
Coumaphos	ND	0.05	1
Demeton-O	ND	0.05	1
Demeton-S	ND	0.05	1
Diazinon	ND	0.05	1
Dichlorvos	ND	0.05	1
Disulfoton	ND	0.05	1
Ethoprop	ND	0.05	1
Fensulfothion	ND	0.05	1
Fenthion	ND	0.05	1
Merphos	ND	0.05	1
Methyl Parathion	ND	0.05	1
Mevinphos	ND	0.10	1
Naled	ND	0.10	1
Phorate	ND	0.05	1
Ronnel	ND	0.05	1
Tetrachlorvinphos (Stirophos)	ND	0.05	1
Tokuthion (Prothiofos)	ND	0.05	1
Trichloronate	ND	0.05	1

COMMENTS:

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766      Tel (909)590-5905 Fax (909)590-5907

## EPA 8141A QA/QC Report

Matrix: **Solid/Soil/Sludge**

Date Analyzed: **12/6-7/2011**

Unit: **mg/Kg (PPM)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 111202-20 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Bolstar	0.00	2.50	2.37	95%	2.51	100%	6%	0-30%	40-140
Ethoprop	0.00	2.50	2.68	107%	2.69	108%	0%	0-30%	40-140
Ronnel	0.00	2.50	3.09	124%	3.12	125%	1%	0-30%	40-140
Phorate	0.00	2.50	2.26	90%	2.31	92%	2%	0-30%	40-140

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
Bolstar	0.250	0.241	96%	40-140
Ethoprop	0.250	0.239	96%	40-140
Ronnel	0.250	0.244	98%	40-140
Phorate	0.250	0.211	84%	40-140

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>		MB	111201-93,95	11201-101,104	111202-20	111202-21	111202-22	111202-23	
Tributyl Phosphate		40-140	81%	93%	108%	100%	95%	103%	98%
Triphenyl Phosphate		40-140	45%	52%	64%	62%	58%	67%	64%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>	111202-24	111202-25,28	111202-26,28	111206-2ABC	111206-3ABC	111206-4ABC	111206-5ABC	111206-6ABC	
Tributyl Phosphate		104%	104%	107%	124%	111%	119%	111%	128%
Triphenyl Phosphate		79%	79%	78%	111%	113%	112%	104%	116%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample I.D.</b>	111206-21	111206-22	111206-23	111206-24	111206-25	
Tributyl Phosphate		117%	113%	115%	121%	121%
Triphenyl Phosphate		127%	99%	107%	179*	107%

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

\* = Surrogate fail due to matrix interference (If Marked)

Note: LCS, MS, MSD are in control therefore results are in control.

Analyzed and Reviewed By:     *AW*    

Final Reviewer:     *(Signature)*

## LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
38655 Sky Canyon Drive  
Murrieta, CA 92563  
Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
MATRIX: SOIL  
DATE SAMPLED: 12/02/11  
REPORT TO: MR. JON CAIN

DATE RECEIVED: 12/02/11  
DATE EXTRACTED: 12/06-07/11  
DATE ANALYZED: 12/07/11  
DATE REPORTED: 12/09/11

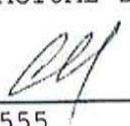
SAMPLE I.D.: B-32@.5', B-33@.5' (COMPOSITE)  
LAB I.D.: 111202-25, -28 (COMPOSITE)

Chlorinated Herbicides Analysis  
Method: EPA 8151A  
Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

**COMMENTS:**

DF = DILUTION FACTOR  
PQL = PRACTICAL QUANTITATION LIMIT  
ACTUAL DETECTION LIMIT = PQL X DF  
ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
CAL-DHS ELAP CERTIFICATE No.: 1555

# LABORATORY REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11  
 MATRIX: SOIL  
 DATE SAMPLED: 12/02/11  
 REPORT TO: MR. JON CAIN  
 DATE RECEIVED: 12/02/11  
 DATE EXTRACTED: 12/06-07/11  
 DATE ANALYZED: 12/07/11  
 DATE REPORTED: 12/09/11

SAMPLE I.D.: B-32@.5'DUP, B-33@.5' (COMPOSITE)  
 LAB I.D.: 111202-26, -28 (COMPOSITE)

### Chlorinated Herbicides Analysis

Method: EPA 8151A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPB	ND	20.0	1

**COMMENTS:**

DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

# METHOD BLANK REPORT

CUSTOMER: Petra Geotechnical Inc.  
 38655 Sky Canyon Drive  
 Murrieta, CA 92563  
 Tel (951) 600-9271 Fax (951) 600-9215

PROJECT: 361-11 DATE RECEIVED: 12/02/11  
 MATRIX: SOIL DATE EXTRACTED: 12/06-07/11  
 DATE SAMPLED: 12/02/11 DATE ANALYZED: 12/06/11  
 REPORT TO: MR. JON CAIN DATE REPORTED: 12/09/11

METHOD BLANK FOR LAB I.D.:  
 111202-25, -28 (COMPOSITE), 111202-26, -28 (COMPOSITE)

Chlorinated Herbicides Analysis  
 Method: EPA 8151A  
 Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
2,4,5-T	ND	0.020	1
2,4,5-TP (Silvex)	ND	0.020	1
2,4-D	ND	0.200	1
2,4-DB	ND	0.200	1
Dalapon (Dichloroacetic Acid)	ND	0.500	1
Dicamba	ND	0.020	1
Dichloroprop	ND	0.200	1
Dinoseb (DNBP)	ND	0.100	1
MCPA	ND	20.0	1
MCPP	ND	20.0	1

COMMENTS:  
 DF = DILUTION FACTOR  
 PQL = PRACTICAL QUANTITATION LIMIT  
 ACTUAL DETECTION LIMIT = PQL X DF  
 ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY:   
 CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

# QA/QC Report

## Analysis: EPA 8151A

Matrix: **Soil/Solid**  
 Unit: **mg/Kg (PPM)**

Date Analyzed: **12/7-8/2011**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

**Spiked Sample Lab I.D.: 111207-LCS 1/2**

Analyte	S.R.	spk conc	MS	% REC	MSD	% REC	%RPD	ACP %RPD	ACP %REC
2,4,5-T	0	0.500	0.637	127%	0.685	137%	7%	0-20%	50-150

**Lab Control Spike (LCS) Recovery:**

Analyte	spk conc	LCS	% REC	ACP %REC
2,4,5-T	0.0500	0.0458	92%	70-130
2,4,5-TP	0.0500	0.0555	111%	70-130
2,4-DB	0.500	0.367	73%	70-130

**Surrogate Recovery:**

Analyte	ACP %	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample ID:</b>		M-BLK	111201-93,95	111201-101,104	111202-25,28	111202-26,28	111206-2ABC	111206-3ABC	111206-4ABC
DCAA	50-150	142%	128%	128%	132%	148%	131%	131%	138%

Analyte	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
<b>Sample ID:</b>	111206-5ABC	111206-6ABC							
DCAA	106%	129%							

Analyte	%REC	%REC	%REC	%REC					
<b>Sample ID:</b>									
DCAA									

S.R. = Sample Result

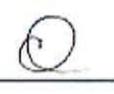
spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

Misc./PO#	
8015 B	8015 B
8081 A	8081 A
8141 A	8141 A
CH	CH
8151 A	8151 A
6010 B	6010 B

SAMPLE ID	LAB ID	SAMPLING DATE	TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
B-32 @ .5	11702-25	12-02-11	8:20	Soil	1		NONE	X X X X Composite	B-32 @ .5' + B-33 @ .5' +
B-32 @ .5	-26		8:22					X X X X	Dupe
B-32 @ 2.5	-27		8:25						Hold
B-33 @ .5	-28		8:42					X	B-33 @ .5' + B-32 @ .5' +
B-33 @ 2.5	-29		8:45						Hold
B-2 @ .5'	-30		7:50				X		Dupe
B-11 @ .5'	-31		7:56				X		Dupe
B-32 @ .5'	-32		8:20						Hold
B-34 @ .5	-33		8:56					X	B-34 @ .5' + B-35 @ .5' +
B-34 @ 2.5	-34		8:59						Hold
B-35 @ .5	-35		9:20					X	B-35 @ .5' + B-34 @ .5' +
B-35 @ 2.5	-36		9:24						Hold
B-36 @ .5	-37		9:29					X	B-36 @ .5' + B-37 @ .5' +
B-36 @ 2.5	-38		9:33						Hold

Company Name: Petra Geotechnical Inc.  
 Address: 38655 Sky Canyon Dr.  
 City/State/Zip: Murrieta, CA 92563  
 Relinquished by: [Signature] Date: 12-02-11 2:59  
 Relinquished by: \_\_\_\_\_ Date & Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Project Contact: Jon Cain  
 Project Name/ID: 361-11  
 Tel: 951-600-9271  
 Fax: [Signature]

Sampler's Signature: [Signature]  
 Date: 12/2/11 15:00

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE - YELLOW TO CLIENT





**Enviro-Chem, Inc. Laboratories**

1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
 CA-DHS ELAP CERTIFICATE #1555

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS	Misc./PO#
B-48 @ .5	111202-64	12-02-11	12:31	Soil	1		NONE	X	Composite	B-48 @ .5' + B-49 @ .5' +	
B-48 @ .5	-65		12:32					X		Dupe	
B-48 @ 2.5	-66		12:35					X		Hold	
B-49 @ .5	-67		12:40					X	Composite	B-48 @ .5' + B-49 @ .5' +	
B-49 @ 2.5	-68		12:42					X		Hold	
B-50 @ .5	-69		12:45					X	Composite	B-50 @ .5' + B-51 @ .5' +	
B-50 @ 2.5	-70		12:47					X		Hold	
B-51 @ .5	-71		12:52					X	Composite	B-51 @ .5' + B-52 @ .5' +	
B-51 @ 2.5	-72		12:53					X		Hold	
B-52 @ .5	-73		12:57					X	Composite	B-52 @ .5' + B-53 @ .5' +	
B-52 @ 2.5	-74		12:58					X		Hold	
B-53 @ .5	-75		1:00					X	Composite B-53	Dupe	
B-53 @ 2.5	-76	12-02-11	1:04	Soil	1			X	Composite B-53 @ .5'	Dupe	
B-54 @ .5	-77		1:06				NONE			Hold	
B-54 @ 2.5	-02										

LEAD  
 6010 B  
 Termite  
 8051A

Company Name: Petra Geotechnical Inc.  
 Address: 38655 Sky Canyon Pr.  
 City/State/Zip: Murietta CA 92563  
 Relinquished by: [Signature] 12-02-11 2:57  
 Relinquished by: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_

Project Contact: Jon Cain  
 Tel: 951-600-9271  
 Fax: [Signature]

Sample's Signature: [Signature]  
 Project Name/ID: 361-11

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other:

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE • YELLOW TO CLIENT





