

**DESERT PETROLEUM, INC.**

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*2:27 pm, Sep 17, 2012*

Alameda County  
Environmental Health

September 5, 2012

Mr. Ralph Lambert  
Water Boards  
San Francisco Bay Regional Water Quality Control Board  
1515 Clay Street, Suite 1400  
Oakland, CA. 94612  
(510) 662-2382  
FACSMILE (510) 662-2460

RE: The following Work Plan was requested by Mr. Ralph Lambert in his letter dated August 16, 2012 for Former Desert Petroleum Site DP793, 4035 Park Blvd., Oakland, California 94602.

Dear Mr. Lambert:

I have reviewed the enclosed Work Plan that I contracted Western Geo-Engineers to prepare.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Sincerely,

  
\_\_\_\_\_  
William Thompson, Desert Petroleum, Inc.

*9/10/12*  
\_\_\_\_\_  
Date

WORK PLAN  
NATURAL ATTENUATION  
SOIL SAMPLING  
WITH  
SOIL GAS RISK ASSESSMENT

FORMER DESERT SITE DP 793  
4035 PARK BLVD.  
OAKLAND, CA.  
REGIONAL WATER BOARD FILE # 01-0170

FOR

DESERT PETROLEUM

**June 8, 2011**  
**Revised August 31, 2012**

BY

-WEGE-  
WESTERN GEO-ENGINEERS  
1386 E. BEAMER STREET  
WOODLAND, CALIFORNIA 95776  
(530) 668-5300

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Desert Petroleum  
3781 Telegraph Road  
Ventura, CA 93003  
(805) 644-6784 FAX (805) 654-0720

June 8, 2011  
Revised August 31, 2012

Dear Mr. Thompson:

The following work plan was previously developed to determine the degree of natural attenuation that had occurred at the site since the December 2004 soil core samples were obtained and analyzed for TPHg, BTEX and MtBE at DP793, 4035 Park Blvd., Oakland, California. This revision is to fulfill the requirements directed in the August 16, 2012 Directive from California Water Boards, San Francisco Bay Regional Water Quality Control Board, see Appendix A.

## **SITE BACKGROUND**

### *SITE LOCATION AND IDENTIFICATION NUMBERS*

Former Desert Petroleum #793 is a former UST site that is currently a fenced vacant lot that contains a secured pump and treatment system. (USTs and associated piping removed June 23, 1994). The site is located on the northwest corner of the intersection of Park Boulevard and Hampel Street at 4035 Park Blvd., Oakland, California (Figure 1). The site is located in projected section 32; T1S; R3W; MDB&M at an approximate elevation of 210 feet above mean sea level (Figure 2).

San Francisco Bay Regional Board (Region 2) Case # 01-0170  
East Bay Municipal Utility District - Sewer Discharge Permit #50435501,  
Alameda County Local Oversight STID 1248  
GeoTracker Facility/Leak Site ID# T0600100158

### *SITE CHRONOLOGY*

November 30, 1989 Alameda County Health Department (Mr. Ariu Levi) notified Desert Petroleum that gasoline was trickling into a sewer on Brighton Avenue through a crack in the bottom of the sewer access. Desert Petroleum's area manager sent to site to reconstruct and audit tank inventories and sales records. The audit indicated overages on all tanks.

December 1, 1989 Desert Petroleum contacted the station tenant, Mr. Jason Gopad, and advised him to test the fuel tanks and associated piping.

December 5, 1989 The retail fueling facility was closed.

December 6, 1989 Mr. Gopad had the underground storage tanks tested. The test results were inconclusive.

December 7, 1989 All fuel was removed from the underground storage tanks. The product lines were tested by Walton Engineering. The regular leaded and super unleaded lines passed. The regular unleaded line failed. A 1/2 inch hole in the 2 inch

unleaded supply line was located beneath the eastern pump island. An ultrasound investigation was conducted to determine the location of the onsite sewer line. An onsite soil gas survey was conducted and indicated contamination associated with the pump islands and the sewer line on the western edge of the property.

- December 11, 1989 Remediation Services (RSI) performed onsite drilling/sampling and well installation initiated, i.e., sample borings RS-1, RS-2, RS-3, RS4, RS-5 and RS-6. Groundwater monitoring wells installed into borings RS-1, RS-5, and RS-6. Vapor extraction well installed into boring RS-2.
- December 13, 1989 The area northeast of the sewer access was excavated with a backhoe, RS7 by RSI. Gasoline appeared to be seeping from the backfill around the sewer line.
- July 24, 1990 Waterworks Corp. (WWC) performed soil boring/sampling investigations near the sewer lateral in residential backyard 1227 Hampel Avenue.
- August 21, 1990 WWC soil boring/sampling investigations near the sewer lateral in residential backyards 4006 Brighton Avenue and 4010/4012 Brighton Avenue.
- December 1990 Commenced quarterly groundwater monitoring.
- September 8, 1993 Levine - Fricke, conducted soil boring/sampling investigation at residences 4003 Park Blvd. and 4006 Brighton Avenue. Constructed monitor well at 4003 Park Blvd for property owner of 4003 Park Blvd (not a part of 4035 Park Blvd. site assessment/investigation).
- June 23, 1994 Removed all USTs and associated piping from 4035 Park Blvd.
- August 14, 1995 Over-excavated UST and dispenser areas at 4035 Park Blvd, 1700 cubic yards of non-hazardous soil transported to and disposed at Forward Landfill, Stockton, California.
- August 14, 1995 Installed excavation well R3 (6 inch slotted PVC to 15 feet below surface) south of building, backfill excavation to 5 1/2 feet below surface with 1/4 inch pea gravel.
- August 16, 1995 Excavated and removed hydraulic hoists from station building.
- August 31, 1995 Exploratory excavation at waste oil UST area, north of building and exploratory excavation west of building to 17 feet below surface. Installed excavation wells R1 in west excavation and R2 in north excavation.
- May 2, 1996 Soil Probe Survey (noted as TP on Figure 3) and soil sample borings along sewer route from 4035 Park Blvd. through back yards, to Brighton Avenue. Temporary casing set in hand augered borings BH-1, BH-2, BH-3, BH-4 and BH-5. Conducted slug tests on BH-1, BH-2, BH-3 and BH-5. Not enough water entry into BH-4 to conduct test. The following hydraulic conductivities (k) were calculated; BH-1 = 0.15 ft/day, BH-2 = 2.9 ft/day, BH-3 = 0.11 ft/day, and BH-5 = 4.8 ft/day.
- August 12, 1999 Installed receptor trench, Brighton Avenue. 148 cubic yards non hazardous gasoline contaminated soil transported and disposed of at Vacaville Landfill, Vacaville, California.
- August 12, 1999 Installed wells RS08, RS09 and RS10.

February 15, 2001	Set submersible pump in RS-5 to pump continuously, continued once a week purging of receptor well T1 (46,121 gallons removed from receptor trench well).
November 20, 2002	Commenced weekly hand bailing of free phase product from well RS-8.
December 12, 2002	Last noted detection of free phase product in RS8 removed 0.014 gallons of degraded gasoline.
April 9, 2003	Demolished existing service station building.
December 16, 2004	Direct push/cored 12 borings to obtain groundwater and soil samples.
March 8, 2005	Published Conceptual Model
February 23, 2011	Construction of new treatment compound and conveyance pipe from T1.
March 8, 2011	Issued City of Oakland Temporary Discharge Permit into City Sewer Line.
April 6, 2011	Start pumping groundwater from T1 and RS05.
July 25, 2012	Turn power off to groundwater pumps, secure site.

## LOCAL GEOLOGY

### *Geomorphology*

The site is located on the western slope of the Berkeley Hills. The Berkeley Hills are a northwest-southeast trending range within the Coastal Range Province of California. Erosion of the Coastal Ranges has filled the valleys within and bordering the Coastal Range with sequences of gravels, silts, sands, and clays.

### *Stratigraphy*

#### Station Property

The native soil from surface to 13 feet below ground surface (BGS) consists of dark brown silty clay. The dark brown clay is underlain by light brown stiff clay that includes subrounded to rounded metavolcanic gravel. This clay extends to approximately 23 feet BGS at the northwest corner of the site. The northwest corner of the site also contains a deck with fill rock placed around the deck extending out into the lot. The fill rock is angular metavolcanics extending from the surface to just over the seven foot depth. A fine to medium sand, clayey sand, and silty sand underlies the gravel and clay.

#### Backyard Sewer Lateral Route

Assessments performed along the sewer lateral as it leaves the site and routes through the residential area towards Brighton Avenue show the subsurface to consist of fill from a couple of inches thick to two feet thick. Beneath the fill is a sequence of clay formations that vary from light brown to dark gray to approximately the 6 foot depth. Silty clay then extends to approximately the 14-foot depth. Beneath the silty clay is sand with occasional gravel. This sand is 11 feet thick at RS05 and is underlain by silty clay.

#### Brighton Avenue

Construction of the receptor trench along the eastern curb area of Brighton Avenue revealed two separate sequences of lithology. North of the storm drain catch basin the sequence consists of; clay to the four foot depth, silty clay to the seven foot depth, fine silty sand to the 9 foot depth, medium

sand to the 10 foot depth, silty clay to the 11 ½ foot depth, gravel to the 12 foot depth underlain by clay to the 16 foot depth. South of the storm catch basin is a sequence of silty clays and clays to depth.

Sandier sequence of sediments north of the storm water catch basin at Brighton Avenue compared to the sediments south of the storm water catch basin, indicate a facies change or a fault remnant striking east/west near the storm drain catch basin. A topographic lineation along the 200 foot contour is located in this area, see Figure 2.

## **RECENT ON-SITE SOIL SAMPLES**

Two geotechnical borings were performed and supervised by GTC GeoTrinity for obtaining a grading permit and performing a slope stability study for future excavation of onsite contaminated soils. During the geotechnical drilling (January 24, 2011) two soil samples were obtained for laboratory analysis. A comparison in concentrations of the soil samples obtained in December 2004 (6 years earlier) from the area to be excavated was made, see Table 1 and Figure 4. Soil sample GB 1-15 was obtained from the 15 foot depth near former core sample point C4. And soil sample GB 2-17.5 was obtained from the 17.5 foot depth near former core sample point C6. Results of the analytical analysis from the two soil samples indicate degradation (natural attenuation) of the gasoline range hydrocarbons is occurring. Core sample point C6 soil sample obtained from the 17 foot depth contained 1600 mg/Kg TPHg, 0.99 mg/Kg Benzene, 23 mg/Kg Ethylbenzene and 3.2 mg/Kg Xylenes. The GB 2-17.5 sample contained 720 mg/Kg TPHg, <0.005 mg/Kg benzene, 9.2 mg/Kg Ethylbenzene and 11 mg/Kg Xylenes. This sample was within 2 feet of the 2004 sample and showed reductions of; TPHg 55 %, Benzene 99.5%, Toluene was below laboratory lower detection limits for both samples, but using the lower detection limits as the concentration Toluene was reduced by 98% and Ethylbenzene 60%. Xylenes were greater in the GB 2 sample at 11 mg/Kg compared to the C6 sample which contained 3.2 mg/Kg. This can be attributed to a higher starting concentration for the GB2 sample by approximately 3.5 times.

Previous sampling on September 2, 1999, showed that aerobic bacteria (hydrocarbon degraders) exist in the groundwater associated with the hydrocarbon plume, see Western Geo Engineers, March 8, 2005 Conceptual Model.

## **WORK PLAN**

### *Objectives for the soil, groundwater and soil gas sampling*

The objectives for the soil, groundwater and soil gas sampling are:

- To determine if there are risk from the shallow soil to the neighborhood residential, on-site commercial and/or workers.
- To determine likelihood and risk from soil gas into nearby residences or future building that may be constructed on site.
- To determine the risk from the groundwater plume.
- To determine to what degree natural attenuation of the contaminants in the soil and groundwater has occurred since 2004.
- If risks are noted, how best to eliminate those risks.

Table 1 is a table of soil samples that have been obtained on site and contains the sample results from direct push cores in December 2004 and more recently from soil borings for geotechnical analysis in 2011. Figure 4 is the location of those cores with the proposed soil sample locations that will be used to verify the degree of natural attenuation that has occurred since 2004 and what if any risk the shallow soil may have on future construction workers at the site.

Table 2 is a table of groundwater samples that have been obtained from the monitor wells associated with this site and samples obtained from the 2004 onsite core borings. Figure 5 is the location of soil gas sample points to determine the risk from soil gas on site and off site in the residential area.

### *Soil/Groundwater Sample Locations*

As shown on Figure 4, ten soil sample borings will be performed within 3 feet of the 2004 core borings. Samples will be obtained to determine the risk from contact with the shallow soil and to determine to what degree Natural Attenuation is occurring as compared to the 2004 soil and water sample data.

### Field Screening for TPHg

Field screening of the cored sections will be accomplished using a photoionizing detector (PID) with a 10.6 ev bulb. Field screening is necessary for Health and Safety and to determine the relative degree and presence of hydrocarbons in the soil.

### Destruction of Holes

The core holes will be destroyed using 1 inch PVC tremie pipe placed to the bottom of the test hole. Neat cement (5 sack mix) with no more than 5% bentonite will then be pumped through the tremie pipe, filling the test hole as the tremie is removed to the surface.

### Drill Method and Sampling

A Western Geo-Engineers geologist working directly under California Registered Geologist #3037 will supervised the drilling of 10, direct push continuous cores. To determine the degree of natural attenuation that has occurred in the last eight years, 10 soil core borings are proposed to the 20 foot depth, if groundwater is not located prior to the 20 foot depth, the borings will be advanced to the depth representing saturated conditions. The soil sample core borings will be sited within 3 feet of the December 2004 sample cores with samples obtained for future laboratory analysis selected from the field screen highest response that correlate to the 2004 highest sample results. Samples for laboratory analysis will also be obtained in the upper five foot of the core for developing risk analysis from direct exposure (potential construction or utility workers). As these soil core borings are advanced, water samples will be obtained for certified laboratory analysis from the top of formation water. It is anticipated that three soil samples will be preserved and Chain of Custody delivered to a California Certified laboratory for analysis per boring.

Based on the laboratory results and comparison to previous sample results, trend curves will be generated to show the degree of Natural Attenuation and when “Environmental Screening Levels (ESL’s)” will be met. The screening levels are published in the May 2008 revised “Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater”, prepared by California Regional Water Quality Control Board, San Francisco Bay Region, Table B-2 “Shallow



Soil Screening Levels, Commercial/Industrial Land Use (groundwater is not a current or potential drinking water resource).

All soil core borings will be produced using Direct Push drilling methods. Continuous cores (1 1/2 inch in diameter) in four foot sections of acrylic liner will be obtained starting at the two foot depth to total depth of the designated core holes. Cores will be examined for lithology, odor, color, the presence of water and field screened with a hand held photoionizing detector (PID) containing a 10.6 e.v. bulb. The cored section obtained from all of the borings in the upper five feet that exhibits the highest PID response will be preserved and labeled for future analysis along with all samples preserved for analysis will be chain of custody (COC) delivered to a State of California certified laboratory for analysis using EPA method 8260B (TPHg and BTEX). Once total depth is achieved the inner core barrel will be retrieved, 1/2 inch diameter PVC casing, bottom five feet 0.02 inch slot will be installed and the outer drill pipe removed past the bottom interval to obtain a water sample with a disposable bailer. The drill rod and casing remains in the core hole until enough water has accumulated to obtain water samples. Once the water samples have been obtained the PVC casing along with the drill rod will be removed and the hole destroyed.

#### Field Screening for TPHg

Field screening of the cored sections will be accomplished using a photoionizing detector (PID) with a 10.6 ev bulb. Field screening is necessary for Health and Safety and to determine the relative degree and presence of hydrocarbons in the soil.

#### Destruction of Holes

The core holes will be destroyed using 1 inch PVC tremie pipe placed to the bottom of the test hole. Neat cement (5 sack mix) with no more than 5% bentonite will then be pumped through the tremie pipe, filling the test hole as the tremie is removed to the surface.

#### *California Certified Laboratory Selection and Soil and Water Analysis*

Contaminants of Concern (COC's) are gasoline range hydrocarbons, Benzene, Toluene, Ethylbenzene and Xylenes (BTEX). Groundwater and soil samples will be analyzed for Total Petroleum Hydrocarbons gasoline range, Benzene, Toluene, Ethylbenzene and Xylenes using EPA method 8260B. Western Geo-Engineers has a contract with and will use Kiff Analytical Laboratories (certification #2236), 720 Olive Drive, Suite D, Davis, California 95616 (530) 297-4800.

#### *SOIL GAS SAMPLE PROBES SITING DETERMINATION*

In conjunction with and immediately following the soil cores, soil gas samples will also be obtained. Soil gas sampling will comply with the *April 2012, Advisory, Active Soil Gas Investigations, published by the DTSC*. A review of previous reports associated with this site with comparison to current soil and groundwater concentrations, sighting of the proposed soil gas probes have been plotted on Figure 5. These sightings are based on land use, areas that have previously been excavated, residual soil contamination (non-excavated) and the historic and current groundwater plume. The onsite placement of the soil gas probes will also be dependent upon the results of the field screening (highest PID response) of the soil sample cores that will precede the soil gas probe placements.

The ten proposed soil gas probe locations will be driven to the 6 foot depth into native undisturbed soil and two of the ten proposed soil gas probe locations will contain nested soil gas probes, a six foot depth and a second deeper probe driven to just above the capillary fringe to obtain two soil gas samples, one from the six foot depth and one just above the capillary fringe (estimated between eight and fifteen feet below the surface). This will enable evaluation of vertical attenuation. The deeper probes depths will be confirmed from the soil sample cores performed on site during this investigation.

The soil gas probes will be installed using direct push geoprobe method. Twelve soil vapor samples will be obtained from ten soil vapor locations, six locations on site above the fill areas and near the 2004 soil TPHg plume, based on the highest PID responses from the soil sample core borings and four soil vapor locations in the residential area west and northwest of the site, along the groundwater plume route as it leaves the site and travels to Brighton Avenue. Prior to installing the soil gas probes off site, within the residential neighborhood, a soil core will be obtained in the backyard of 4006 Brighton Avenue to test for soil water saturation. This boring will be direct pushed to the six foot depth with the soil core being collected in an acrylic linear for examination, see Figure 5. Placement of the corresponding soil gas borings will be at least five feet from the soil core sample borings to insure the soil is not disturbed. Soil gas samples will be collected in 1 liter Summa Canisters prepared by the testing laboratory for analysis using ASTM D-1945 (Sh)-O2 only for analysis of Oxygen and TO-15 for analysis of TPHg, BTEX, 1,2 DCA, EDB, Naphthalene and diflouroethane (leak detection) to determine if there is a risk to indoor air of any future buildings constructed on the site and the residential neighborhood.

## **SOIL GAS PROBE INSTALLATION**

The soil gas probe will be driven by direct push method using one inch diameter steel rods with a drop-off point. The probes will be driven to six feet below the surface, except for the two onsite probes that will be driven to just above the capillary fringe. At total depth a stainless steel PRT (post run tubing) fitting will be connected to 1/8 inch Nylaflo tube and threaded down the center of the probe rod and connected to a sampling port just above the drop-off tip. This internal, disposable sample tubing designs eliminates any contact between the probe rod and the soil vapor sample. Photoionizing detectors (PID) with a 10.6 eV bulb screened the ambient air at and near the probe activities.

Once the rods and Nylaflo tubing are in place the rods will be retracted slowly until soil gas can be purged, evidence of a vacuum break. At that depth the soil gas samples will be obtained.

Once the retraction of the probe has provided soil gas purging, hydrated bentonite will be placed as a collar around the drive rod and the surface annular space to prevent surface air from migrating between the rod and the surface.

### **Sample Equilibrium Time**

A two hour equilibrium period will occur prior to obtaining the soil gas sample. The actual time the probe was installed and the time sampling commences will be logged.

## Sample Manifold

A dedicated sample manifold will be attached to the sample tubing and consists of a two way valve connecting the 1/8 inch Nylafow tube to a flow restrictor that is attached to a sample T connecting a vacuum gauge and a liter Summa canister. The flow restrictor will not allow a purge rate faster than 167 mls/minute.

## Leak Check

Prior to purging the soil gas probe hole, a leak check will be performed on the sample manifold. The well valve and the canister valve will be closed and the purge port, attached to a 60 cc syringe, on a two way valve, will be opened. The syringe is pulled, which, if no leaks occur the vacuum will be maintained, indicating all the fittings and the manifold are tight. If the vacuum is lost, the fittings need to be tightened and retested. During sampling, diflouroethane will be used as a tracer to confirm if any leaks had occurred in the sample train.

## Soil Gas Sampling

Once the leak test is completed the two way valve connecting the soil gas probe tubing to the sample manifold is opened allowing the purge of three tubing volumes. Three tubing volumes is equivalent to 22 cubic centimeters for the six foot depth soil gas probes (12 feet of tubing x 0.6 cc/foot x 3) and up to 44 cubic centimeters for the deeper soil gas probes (24 feet of tubing x 0.6 cc/foot x 3). No purge volume test will be necessary do to the volume of the Summa canister (one liter) being 139 times larger than one tubing volume (7.2 cc).

Once the well tubing is purged the sample train (tubing connectors, flow restrictor sample T, vacuum gauge and Summa canister are shrouded and a small amount of diflouroethane is placed in a cup inside of the shroud for sampling leak detection. The two way valve is then opened to the sampling port (flow restrictor and Summa Canister), closing the purge. Then the valve attached to the summa canister is opened to allow sampling of the soil gas. The time the Summa canister is opened along with the end of sampling time when the Summa canister is closed will be logged on the Soil Gas Logs. Initial vacuum and final vacuum readings will be obtained for each soil gas sample. A GasTech O<sub>2</sub>/Explosion meter will analyze the purged vapors for the O<sub>2</sub> percent, which will be logged during the purging. After the soil gas sample has been obtained, the GasTech O<sub>2</sub>/Explosion meter will again be used to log the O<sub>2</sub> percent remaining in the soil gas probe, prior to removing the probe and destroying the soil gas boring.

- A total of 12 soil gas probes will be installed (SG1, SG2, SG3 \*\* SG12). The proposed soil gas boring locations are shown on the Figure 5.
- All 12 soil gas borings will be sampled as described above obtaining one Summa Canister sample after 3 purge volumes.
- All soil gas borings will be logged in the field by a qualified geologist working under the supervision of California Registered Geologist #3037 utilizing the Unified Soil Classification System ASTM D 2488 – 84.
- Following sample collections, the Summa Canister samples will be labeled, and transported to the analytical laboratory utilizing standard chain-of-custody (CofC) procedures.
- Provide QA/QC procedures during the field activities. These procedures will include but not be limited to the cleansing/rinsing of the drilling/sampling equipment prior to each boring/sampling effort, field calibration of PID and/or other field screening equipment and

providing CofC documentation for each sample collected and transferred to the laboratory for analytical testing.

All soil gas borings will be destroyed after they have been sampled as follows:

- Remove the soil gas steel rod and sampling assembly.
- Gravity place neat cement grout in the boring.
- Patch the surface with soil or concrete to match present surface.

#### *PRE-FIELD ACTIVITIES*

Prepare a health and safety plan for the proposed field activities. The health and safety plan will provide guidelines for personal protective equipment, for protection of public from the investigation activities and for health and safety procedures to be implemented during the proposed field activities.

Prepare and submit boring and well installation applications and applicable fees to appropriate agency (Alameda County Zone 7).

Obtain encroachment agreements from property owners.

#### *LABORATORY ANALYSIS*

The samples (liter Summa Canisters) will be submitted to the analytical laboratory for chemical analyses for the following target compounds TPHg, BTEX, Naphalene, EDB and 1, 2 DCA following EPA Modified TO-15 test methods to also include diflouroethane (leak check liquid). ASTM D-1945 (Sh)-O2 only for analysis of Oxygen. Western Geo-Engineers has contracted Eurofins - Air Toxics of Folsom, California to supply the sample containers and perform the analysis.

#### *REPORT PREPARATION*

Prepare a site investigation report summarizing the field activities and the analytical results. The report will include at the very least the following:

- Introduction
- Background summary
- Scope of services performed
- Investigative methods
- Observations during the field activities
- Analytical data evaluation and discussion
- Human and ecological risk assessment
- Results of field activities
- Site plan and vicinity map
- Laboratory data in tabular form
- Conclusions and Recommendations
- Appendices including boring log and analytical reports with chain of custody documentation.

## WASTE MANAGEMENT

### *EXCAVATED BORING MATERIALS AND FLUIDS*

All materials (solids) excavated during the drilling/sampling and boring destruction will be placed on and covered with 6 mil plastic liner for profiling and later disposal at a California Class II Landfill.

All fluids generated by the drilling/sampling and boring destruction procedures will be placed into 55-gallon drums. The drums will be placed in the remediation system compound for temporary storage, to allow the solids to settle to the bottom of the drums. In two to three days the drums will be inspected and all clear fluids will be placed into the groundwater treatment system for treatment and disposal to the city sewer system. The solids will be placed with the drill cuttings, contained within a plastic liner. Once the drums have been emptied they will be removed from the site.

## SCHEDULE

September 4, 2012

Email Work Plan to Desert Petroleum for review. Once approved, mail Work Plan to Mr. Ralph Lambert, California Water Boards, San Francisco Bay Region (CWB-SFBR) for Approval.

After CWB-SFBR Approval

Schedule TEG Drilling and submit permits to . Perform Continuous Core Sampling and vapor probe installations. Submit soil and water samples to Kiff Analytical Laboratory for normal 1 week turnaround. Submit soil gas samples to Eurofins – Air Toxics for normal turn around, two weeks. Draft copy of report of findings to Desert Petroleum for review and comment.

Submit report of findings with recommendations to CWB-SFBR, Alameda County Health and Geotracker.

## LIMITATIONS

This work plan is based upon the following:

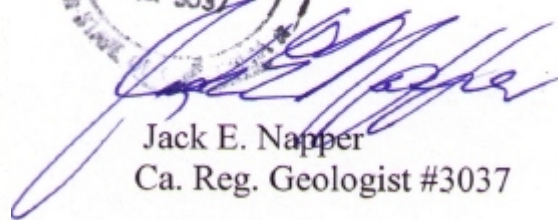
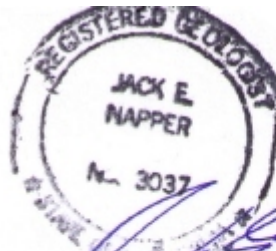
- A. The observations of field personnel.
- B. The results of laboratory analyses performed by a state certified laboratory.
- C. Referenced documents.
- D. Our understanding of the regulations of the State of California, Alameda County and the City of Oakland.
- E. Changes in groundwater conditions can occur due to variations in rainfall, temperature, local and regional water use, and local construction practices.
- F. In addition, variations in the soil and groundwater conditions could exist beyond the points explored in this investigation.

State Certified Laboratory analytical results are included in this report. This laboratory follows EPA and State of California approved procedures; however, WEGE is not responsible for errors in these laboratory results. The services performed by Western Geo-Engineers have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California and the Oakland area. Our work and/or supervision of remediation and/or abatement operations, active or preliminary, at this site is in no way meant to imply that we are owners or operators of this site. Known or suspected contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Sincerely,



George Converse  
Project Geologist



Jack E. Napper  
Ca. Reg. Geologist #3037

cc: Mr. Ralph Lambert, California Water Boards – San Francisco Bay Region (510) 622-2382  
Mr. J. Wickham, Alameda County Health (510) 567-6791  
Mr. Kin Man Li, property owner (510) 599-7000  
GeoTracker

TABLE 1  
 SOIL SAMPLE (CERTIFIED LABORATORY RESULTS)  
 FORMER DP #793  
 4035 PARK BLVD., OAKLAND, CALIFORNIA

SAMPLE ID	SAMPLED DATE BY	DEPTH SAMPLED BELOW SURFACE IN FEET	EPA METHOD 8020							TBA
			TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TOC	
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg

SOIL BORINGS/MONITOR WELLS INSTALLATIONS BY RSI

RS-1	RSI	12/11/1989	5	16	na	na	na	na		
RS-1	RSI	12/11/1989	10	33	na	na	na	na		
RS-1	RSI	12/11/1989	15	<1	na	na	na	na		
RS-1	RSI	12/11/1989	20	<1	<0.003	0.008	<0.003	<0.003		
RS-1	RSI	12/11/1989	25	10	0.056	0.12	0.041	0.13		
RS-1	RSI	12/11/1989	30	<1	<0.003	0.012	<0.003	<0.003		

RS-2	RSI	12/11/1989	5	<1	na	na	na	na		
RS-2	RSI	12/11/1989	10	11	na	na	na	na		
RS-2	RSI	12/11/1989	15	<1	na	na	na	na		
RS-2	RSI	12/11/1989	20	<1	<0.003	0.017	<0.003	<0.003		

RS-3	RSI	12/11/1989	5	<1	<0.003	0.043	<0.003	0.008		
RS-3	RSI	12/11/1989	10	<1	<0.003	0.02	<0.003	<0.003		

RS-4	RSI	12/12/1989	5	50	0.78	3.4	0.74	4.1		
RS-4	RSI	12/12/1989	10	8	0.25	0.94	0.17	0.92		

RS-5	RSI	12/12/1989	5	<1	na	na	na	na		
RS-5	RSI	12/12/1989	10	<1	na	na	na	na		
RS-5	RSI	12/12/1989	15	<1	na	na	na	na		
RS-5	RSI	12/12/1989	20	530	1.5	8.4	3.9	22		
RS-5	RSI	12/12/1989	25	4	0.7	0.42	0.58	0.26		
RS-5	RSI	12/12/1989	30	1600	na	na	na	na		
RS-5	RSI	12/12/1989	35	<1	na	na	na	na		
RS-5	RSI	12/12/1989	40	1	0.036	0.069	0.009	0.043		

RS-6	RSI	12/13/1989	5	<1	na	na	na	na		
RS-6	RSI	12/13/1989	10	<1	na	na	na	na		
RS-6	RSI	12/13/1989	15	<1	na	na	na	na		
RS-6	RSI	12/13/1989	20	<1	0.017	0.007	<0.003	0.015		
RS-6	RSI	12/13/1989	25	<1	0.009	0.011	<0.003	<0.003		
RS-6	RSI	12/13/1989	30	<1	na	na	na	na		
RS-6	RSI	12/13/1989	35	<1	0.005	0.007	<0.003	0.006		

RS-7(SB-1)	RSI	12/14/1989	STOCKPI	130	0.46	3.6	1	7.6		
RS-7(SB-2)	RSI	12/14/1989	STOCKPI	370	1.1	13	4.4	29		

SOIL BORINGS ALONG SEWER LATERAL

DPO-SS1	WWC	7/24/1990	3.5	<1	<0.005	<0.005	<0.005	<0.005		
DPO-SS1	WWC	7/24/1990	5	<1	0.005	<0.005	<0.005	0.011		

DPO-SB1	WWC	8/21/1990	5	390	2.5	17	9.4	47		
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DPO-SB2	WWC	8/21/1990	5	41	0.31	1.4	0.92	4.4		
DPO-SB2	WWC	8/21/1990	10	230	3.5	21	5	43		
DPO-SB2	WWC	8/21/1990	15	<1	0.052	0.13	0.019	0.099		
DPO-SB2	WWC	8/21/1990	20	<1	0.03	0.033	0.0076	0.03		

DPO-SB3	WWC	9/19/1990	15	<1	<0.005	<0.005	<0.005	0.0073		
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SOIL BORINGS AT 4003 AND 4006 BRIGHTON AVENUE

SB-A	LF	9/8/1993	5	<0.2	<0.005	<0.005	<0.005	<0.005		
SB-A	LF	9/8/1993	15	<0.2	<0.005	<0.005	<0.005	<0.005		

SB-B	LF	9/8/1993	5	<0.2	<0.005	<0.005	<0.005	<0.005		
SB-B	LF	9/8/1993	12.5	400	1.7	17	8.2	44		

LF-1	LF	9/9/1993	6	<0.2	<0.005	<0.005	<0.005	<0.005		
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TABLE 1  
SOIL SAMPLE (CERTIFIED LABORATORY RESULTS)  
FORMER DP #793  
4035 PARK BLVD., OAKLAND, CALIFORNIA

SAMPLE ID	SAMPLER BY	DATE SAMPLED	DEPTH SAMPLED BELOW SURFACE IN FEET	EPA METHOD 8020						
				TPHg mg/Kg	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL-BENZENE mg/Kg	XYLENES mg/Kg	MTBE mg/Kg	TOC mg/Kg
LF-1	LF	9/9/1993	15.5	<0.2	<0.005	<0.005	<0.005	<0.005		

UST AND PIPING REMOVAL DOCUMENTATION SAMPLING

REGULAR LEADED STEEL UST

T1A	WEGE	6/23/1994	14	2	0.022	0.075	0.03	0.16		
T1B	WEGE	6/23/1994	14	<1	0.027	0.028	0.006	0.026		

UNLEADED STEEL UST

T2A	WEGE	6/23/1994	14	<1	0.022	0.027	0.005	0.022		
T2B	WEGE	6/23/1994	14	<1	0.017	0.025	0.005	0.02		

UNLEADED FIBERGLASS UST

T3A	WEGE	6/23/1994	14	<1	0.013	0.012	<0.005	<0.015		
T3B	WEGE	6/23/1994	14	<1	0.013	0.011	<0.005	<0.015		

WASTE OIL UST - REMOVED BY EXCAVATION

WO-1	WEGE	6/23/1994	7.5	3	0.063	0.34	0.048	0.23		
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PRODUCT DISPENSING SYSTEM - REMOVED BY EXCAVATION

PL-1	WEGE	6/23/1994	2.5	<1	0.01	<0.005	<0.005	0.02		
PL-2	WEGE	6/23/1994	2.5	<1	0.01	0.031	0.0059	0.032		

OVER-EXCAVATION OF USTs AND PRODUCT DISPENSING AREAS

SIDEWALLS OF UST EXCAVATION AND SOUTH OF BUILDING

SWA -13	WEGE	8/8/1995	13	3	0.005	0.009	0.046	0.36		
SWB-6	WEGE	8/8/1995	6	<1	<0.005	<0.005	<0.005	<0.005		
SWC-13	WEGE	8/8/1995	13	3	<0.005	<0.005	<0.005	0.022		
SWD-6	WEGE	8/8/1995	6	<1	<0.005	<0.005	<0.005	<0.005		
SWE-11.5	WEGE	8/8/1995	11.5	<1	<0.005	<0.005	<0.005	<0.005		
F-14	WEGE	8/8/1995	14	3	0.12	0.24	0.053	0.29		
G-17	WEGE	8/8/1995	17	6	0.16	0.31	0.11	0.68		
H-SW-BOT-16	WEGE	8/10/1995	16	1000	3.6	31	14	77		
I-SW BUILD 8	WEGE	8/10/1995	8	2000	4.5	35	18	130		
J-BOT WEST	WEGE	8/11/1995	13	<1	<0.005	<0.005	<0.005	<0.005		
K-SW WEST 8	WEGE	8/11/1995	8	<1	<0.005	<0.005	<0.005	0.005		

SIDEWALLS AND BASE OF EXCAVATION SOUTH OF PUMP ISLANDS AND DISPENSER AREAS

PI-1	WEGE	8/14/1995	12	<1	<0.005	<0.005	<0.005	<0.005		
PI-2	WEGE	8/14/1995	7	<1	0.011	<0.005	0.005	0.03		
PI-3	WEGE	8/14/1995	8	<1	<0.005	<0.005	<0.005	<0.005		
PI-4	WEGE	8/14/1995	6	<1	<0.005	<0.005	<0.005	<0.005		

HYDRAULIC HOIST AREAS

SLP-7	WEGE	8/16/1995	7	na						
SLP-14.5	WEGE	8/16/1995	14.5	1200	8.8	25	18	92		
NPL-7	WEGE	8/16/1995	7	na						

WASTE OIL UST

T1-17	WEGE	8/31/1995	17	940	2.1	3.3	7.9	33		
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EXPLORATORY PIT WEST OF BUILDING

T2-11.5	WEGE	8/31/1995	11.5	<1	<0.005	<0.005	<0.005	<0.005		
T2-17.5	WEGE	8/31/1995	17.5	4	0.05	0.07	0.062	0.31		

BORING FOR MONITOR WELL MW1, REPLACED RS-1 WHICH WAS OVER-EXCAVATED.

MW1-5	WEGE	9/5/1995	5	<1	0.005	0.005	<0.005	0.015		
MW1-10	WEGE	9/5/1995	10	<1	<0.005	<0.005	<0.005	<0.005		
MW1-15	WEGE	9/5/1995	15	<1	<0.005	<0.005	<0.005	<0.005		
MW1-20	WEGE	9/5/1995	20	<1	<0.005	<0.005	<0.005	<0.005		

SEWER LATERAL INVESTIGATION

BH1-5	WEGE	5/1/1996	5	<0.2	<0.005	<0.005	<0.005	<0.005		
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FORMER DP #793  
4035 PARK BLVD., OAKLAND, CALIFORNIA

SAMPLE ID	SAMPLED BY	DATE SAMPLED	DEPTH BELOW SURFACE IN FEET	EPA METHOD 8020							TBA
				TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TOC	
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
BH1-10	WEGE	5/1/1996	10	31	<0.005	0.16	0.22	0.71			390
BH2-5.5	WEGE	5/2/1996	5.5	<0.2	<0.005	<0.005	<0.005	<0.005			2400
BH3-5	WEGE	5/2/1996	5	<0.2	<0.005	<0.005	<0.005	<0.005			
BH3-8.5	WEGE	5/2/1996	8.5	<0.2	<0.005	<0.005	<0.005	<0.005			
BH3-10.5	WEGE	5/2/1996	10.5	<0.2	0.09	<0.005	<0.005	0.021			340
BH4-6.5	WEGE	5/2/1996	6.5	<0.2	<0.005	<0.005	<0.005	<0.005			
BH4-8.5	WEGE	5/2/1996	8.5	<0.2	<0.005	<0.005	<0.005	<0.005			460
BH5-5	WEGE	5/2/1996	5	<0.2	<0.005	<0.005	<0.005	<0.005			
BH5-6.5	WEGE	5/2/1996	6.5	<0.2	<0.005	<0.005	<0.005	<0.005			5700
AUGER 1	WEGE	1/17/1997	0.9	0.5	<0.005	0.017	<0.005	<0.01	0.14		
AUGER 2	WEGE	1/17/1997	7	0.68	0.024	0.032	0.009	0.024	0.07		
AUGER 3	WEGE	1/17/1997	4.5	<0.5	<0.005	0.017	<0.005	<0.01	0.085		

ADDITIONAL MONITOR WELLS ALONG SEWER LATERAL

RS8-10	WEGE	8/2/1999	10	160	0.49	0.79	2.6	6.2	<0.005	
RS9-6	WEGE	8/3/1999	6	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	
RS9-10	WEGE	8/3/1999	10	67	0.41	2	0.87	4.9	<0.005	
RS10-6	WEGE	8/5/1999	6	<0.5	0.005	<0.005	<0.005	<0.01	<0.005	
RS10-9.5	WEGE	8/5/1999	9.5	870	11	62	21	120	<0.005	

RECEPTOR TRENCH DOCUMENTATION SAMPLES

TRENCH-A-15	WEGE	8/4/1999	15	<0.5	0.072	0.011	0.008	0.015	<0.005	
TRENCH-B-10	WEGE	8/4/1999	10	140	2	4	2.4	10	<0.005	
TRENCH-C-14	WEGE	8/4/1999	14	<0.5	0.009	0.017	0.005	0.031	<0.005	
TRENCH-D-10.5	WEGE	8/5/1999	10.5	<0.5	<0.005	0.006	<0.005	0.017	<0.005	
TRENCH-E-5	WEGE	8/5/1999	5	4000	17	260	110	580	<0.005	
TRENCH-F-10.5	WEGE	8/5/1999	10.5	<0.5	0.064	0.015	0.01	0.046	<0.005	
TRENCH-G-7	WEGE	8/6/1999	7	1100	1.4	70	34	180	4.5	
TRENCH-H-10.5	WEGE	8/6/1999	10.5	<0.5	<0.005	<0.005	<0.005	0.018	<0.005	
TRENCH-I-5	WEGE	8/6/1999	5	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	
TRENCH-J-10	WEGE	8/6/1999	10	<0.5	0.021	0.079	0.011	0.057	<0.005	
TRENCH-K-12.5	WEGE	8/9/1999	12.5	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	
TRENCH-L-10	WEGE	8/9/1999	10	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	
TRENCH-M-6	WEGE	8/12/1999	6	<0.5	<0.005	<0.005	<0.005	<0.01	<0.005	
TRENCH-N-8	WEGE	8/12/1999	8	<0.5	0.012	0.005	<0.005	0.012	<0.005	
TRENCH-O-10	WEGE	8/12/1999	10	<0.5	0.011	<0.005	<0.005	0.011	<0.005	
TRENCH-P-6	WEGE	8/12/1999	6	<0.5	0.045	<0.005	<0.005	<0.01	<0.005	

SOIL CORES DECEMBER 2004

CORE HOLE 1

C1-8/8.25	WEGE	12/9/2004	8.25	<1	<0.005	<0.005	<0.005	<0.005	<0.005	
C1-12/12.25	WEGE	12/9/2004	12.25	<1	<0.005	<0.005	<0.005	<0.005	<0.005	
C1-20/20.25	WEGE	12/9/2004	20.25	12	<0.005	<0.005	0.0083	<0.005	<0.005	
C1-23.75/24	WEGE	12/9/2004	24	1500	<0.05	0.097	5.1	15	<0.05	
C1-39.75/40	WEGE	12/9/2004	40	<1	<0.005	<0.005	<0.005	<0.005	<0.005	
C1-45.75/46	WEGE	12/9/2004	46	<1	<0.005	<0.005	<0.005	<0.005	<0.005	
C1-49.25/49.5	WEGE	12/9/2004	49.5	<1	<0.005	<0.005	<0.005	<0.005	<0.005	

CORE HOLE 2

C2-8.5/8.75	WEGE	12/16/2004	8.75	<1	<0.005	<0.005	<0.005	<0.005	<0.005	
C2-19/19.25	WEGE	12/16/2004	19.25	<1	<0.005	<0.005	<0.005	<0.005	<0.005	0.012
C2-22.5/23	WEGE	12/16/2004	23	2.5	<0.005	<0.005	<0.005	<0.005	<0.005	
C2-39.75/40	WEGE	12/16/2004	40	<1	<0.005	<0.005	<0.005	<0.005	<0.005	
C2-49.25/49.5	WEGE	12/16/2004	49.5	<1	<0.005	<0.005	<0.005	<0.005	<0.005	

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SAMPLE ID	SAMPLER BY	DATE SAMPLED	DEPTH SAMPLED BELOW SURFACE IN FEET	EPA METHOD 8020							TOC mg/Kg	TBA mg/Kg
				TPHg mg/Kg	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL-BENZENE mg/Kg	XYLENES mg/Kg	MTBE mg/Kg			
CORE HOLE 3												
C3-7.75/8	WEGE	12/15/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
C3-15/15.5	WEGE	12/15/2004	15.5	270	0.16	0.14	4.2	2.3	<0.05			
C3-31.75/32	WEGE	12/15/2004	32	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C3-35.75/36	WEGE	12/15/2004	36	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C3-41.75/42	WEGE	12/15/2004	42	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 4												
C4-7.75/8	WEGE	12/16/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C4-19.5/20	WEGE	12/16/2004	20	58	0.044	0.83	1.1	2.1	<0.005	0.092		
C4-25.75/26	WEGE	12/16/2004	26	<1	<0.005	<0.005	<0.005	0.0056	<0.005			
C4-39.75/40	WEGE	12/16/2004	40	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 5, NOT DRILLED												
CORE HOLE 6												
C6-7.75/8	WEGE	12/13/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C6-15.75/16	WEGE	12/13/2004	16	120	0.22	<0.025	0.16	<0.05	<0.025			
C6-16.5/17	WEGE	12/13/2004	17	1600	0.99	<0.25	23	3.2	<0.25			
C6-31.75/32	WEGE	12/13/2004	32	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C6-34.75/35	WEGE	12/13/2004	35	<1	0.035	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 7												
C7-7.75/8	WEGE	12/15/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C7-18/18.25	WEGE	12/15/2004	18.25	220	0.055	0.031	0.64	0.05	<0.025			
C7-29.75/30	WEGE	12/15/2004	30	<1	0.14	0.028	0.013	0.029	<0.005			
C7-45.75/46	WEGE	12/15/2004	46	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C7-48.75/49	WEGE	12/15/2004	49	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 8												
C8-7.75/8	WEGE	12/14/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C8-11.75/12.0	WEGE	12/14/2004	12	470	<0.1	<0.1	0.13	<0.1	<0.1			
C8-15.75/16.0	WEGE	12/14/2004	16	7.2	0.08	0.043	0.25	0.3	<0.005			
C8-29.75/30.0	WEGE	12/14/2004	30	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C8-37.75/38	WEGE	12/14/2004	38	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 9												
C9-7.75/8	WEGE	12/14/2004	8	520	<0.25	<0.25	4.2	5.4	<0.25			
C9-11.75/12	WEGE	12/14/2004	12	1300	<0.25	0.72	17	75	<0.25			
C9-23.75/24	WEGE	12/14/2004	24	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C9-30.75/31	WEGE	12/14/2004	31	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 10												
C10-7.75/8	WEGE	12/13/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C10-16/16.25	WEGE	12/13/2004	16.25	1.1	0.005	<0.005	0.026	0.067	<0.005			
C10-29.75/30	WEGE	12/13/2004	30	<1	0.085	<0.005	<0.005	<0.005	0.0066			
C10-33.75/34	WEGE	12/13/2004	34	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 11												
C11-7.75/8	WEGE	12/13/2004	8	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C11-17.5/18	WEGE	12/13/2004	18	2.4	0.012	<0.005	0.013	0.028	<0.005			
C11-23.75/24.0	WEGE	12/13/2004	24	210	3.9	15	4.4	23	<0.025			
C11-28.75/29	WEGE	12/13/2004	29	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C11-31.75/32	WEGE	12/13/2004	32	<1	0.027	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 12												
C12-5.75/6.0	WEGE	12/10/2004	6	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C12-15.75/16	WEGE	12/10/2004	16	6	<0.005	<0.005	0.056	<0.005	<0.005			
C12-19.75/20	WEGE	12/10/2004	20	3.2	<0.005	<0.005	<0.005	<0.005	<0.005			
C12-29.75/30	WEGE	12/10/2004	30	4.4	<0.005	<0.005	<0.005	<0.005	<0.005			
CORE HOLE 13												
C13-3.75/4.0	WEGE	12/9/2004	4	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
C13-13.75/14	WEGE	12/9/2004	14	23	0.097	<0.005	0.31	0.46	<0.005			

TABLE 1  
SOIL SAMPLE (CERTIFIED LABORATORY RESULTS)  
FORMER DP #793  
4035 PARK BLVD., OAKLAND, CALIFORNIA

SAMPLE ID	SAMPLED BY	DATE SAMPLED	DEPTH BELOW SURFACE IN FEET	EPA METHOD 8020							TOC	TBA
				TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE			
				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
C13-21/21.5	WEGE	12/9/2004	21.5	180	0.74	1.1	2.8	12	<0.025			
C13-23.75/24	WEGE	12/10/2004	24	<1	0.19	<0.005	<0.005	0.016	0.0094			
C13-29.75/30	WEGE	12/10/2004	30	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
Geotechnical Evaluation Drilling for proposed excavation slope stability and grading permit.												
GB 1-15	WEGE	1/24/2011	15	<1	<0.005	<0.005	<0.005	<0.005	<0.005			
GB 2-17.5	WEGE	1/24/2011	17.5	720	<0.005	<0.005	9.2	11	<0.005			

RSI REMEDIATION SERVICE, INTL  
WWC WATERWORKS CORP.  
LF LEVINE-FRICKE  
WEGE WESTERN GEO-ENGINEERS

< BELOW LABORATORY LOWER DETECTION LIMITS  
mg/Kg milligrams per kilogram (parts per million)  
TPHg TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE  
MTBE METHYL TERTIARY BUTYL ETHER  
TOC Total Organic Carbon

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
	(CALIFORNIA PUBLIC HEALTH GOAL)										
RS-01	12/14/1989	228.15	24.25	203.9		19000	2600	2700	200	1200	
RS-01	12/90					15000	3500	330	170	760	
RS-01	2/91					6900	910	200	39	540	
RS-01	6/91					1600	56	180	12	26	
RS-01	9/91					4100	730	7.6	5.1	24	
RS-01	12/91					8300	950	160	71	190	
RS-01	11/9/1992	228.15	17.05	211.1		1700	730	9.6	16	14	
RS-01	4/7/1994	228.15	13	215.15		860	84	12	16	110	
RS-01	6/19/1994	228.15	13.37	214.78		1400	150	12	52	87	
RS-01	9/17/1994	228.15	16.33	211.82		310	30	1.8	2.8	3.9	
RS-01	3/12/1995	228.15	4.66	223.49		ND	ND	ND	ND	ND	
RS-01	8/14/1995	DESTROYED BY OVER-EXCAVATION OF UST-DISPENSER AREAS ( 8/14/95)									
RS-01	9/5/1995	REPLACED WITH MW-1 9/5/95.									
MW-01	10/4/1995	229.5	12.38	217.12		ND	ND	ND	ND	ND	
MW-01	12/21/95	229.5	13.40	216.1		< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-01	03/27/96	229.5	5.53	223.97		< 50	< 0.5	< 0.5	< 0.5	< 2	< 50
MW-01	06/11/96	229.5	9.02	220.48		< 50	< 0.5	< 0.5	< 0.5	< 2	< 50
MW-01	09/04/96	229.5	11.84	217.66		< 50	< 0.5	< 0.5	< 0.5	< 2	< 5
MW-01	12/11/96	229.5	12.98	216.52		< 50	< 0.5	0.9	< 0.5	< 1	< 0.5
MW-01	2/21/97	229.5	9.50	220		< 50	< 0.5	0.9	< 0.5	< 1	< 0.5
MW-01	5/28/97	229.5	11.18	218.32		< 50	3	3	< 0.5	< 1	< 0.5
MW-01	9/2/1997	229.5	13.00	216.5		< 50	5	< 0.5	< 0.5	< 1	< 0.5
MW-01	11/24/1997	229.5	14.12	215.38		< 50	5	< 0.5	< 0.5	< 1	< 0.5
MW-01	2/25/1998	229.5	6.41	223.09		< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5
MW-01	7/8/1998	229.5	7.28	222.22		< 50	< 0.5	< 0.5	< 0.5	< 1	< 1
MW-01	9/16/1998	229.5	10.96	218.54		< 50	< 0.5	< 0.5	< 0.5	< 1	< 1
MW-01	11/24/1998	229.5	12.24	217.26		52	2.3	5.2	< 0.5	5.4	11
MW-01	2/23/1999	229.5	7.14	222.36		< 50	< 0.5	5	< 0.5	< 1	< 0.5
MW-01	5/5/1999	229.5	7.00	222.5		< 50	2	<0.5	< 0.5	< 1	8
MW-01	8/26/1999	229.5	11.41	218.09		<50	4.1	<0.5	< 0.5	< 1	<1
MW-01	11/10/1999	229.5	13.27	216.23		<50	<0.5	<0.5	< 0.5	< 1	<0.5
MW-01	2/9/2000	229.5	13.76	215.74		<50	<0.5	<0.5	0.5	< 1	0.5
MW-01	6/30/2000	229.5	10.63	218.87		<50	<0.5	<0.5	< 0.5	< 1	< 0.5
MW-01	8/8/2000	229.5	11.77	217.73		62	1	2	< 0.5	2	< 0.5
MW-01	11/16/2000	229.5	13.33	216.17		<50	<0.5	<0.5	< 0.5	< 1	< 0.5
MW-01	3/8/2001	229.5	12.30	217.2		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	5/31/2001	229.5	11.88	217.62		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	12/18/2001	229.5	13.74	215.76		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	2/19/2002	229.5	14.42	215.08		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	5/7/2002	229.5	10.78	218.72		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	8/6/2002	229.5	12.70	216.8		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	11/5/2002	229.5	15.00	214.5		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	12/12/2002	229.5	15.46	214.04							
MW-01	3/13/2003	229.5	14.51	214.99		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	5/6/2003	229.5	11.06	218.44		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	8/13/2003	229.5	13.13	216.37		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	11/20/2003	229.5	14.85	214.65		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	1/22/2004	229.5	13.65	215.85							
MW-01	3/30/2004	229.5	11.68	217.82		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	6/10/2004	229.5	13.08	216.42		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	9/28/2004	229.5	14.33	215.17		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	12/8/2004	229.5	14.67	214.83		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	3/23/2005	229.5	9.60	219.9		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	6/1/2005	229.5	8.64	220.86		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	9/21/2005	229.5	11.81	217.69		<50	1.3	<0.5	< 0.5	< 0.5	< 0.5
MW-01	12/7/2005	229.5	13.02	216.48		<50	1.7	<0.5	0.63	0.76	< 0.5
MW-01	3/28/2006	229.5	5.94	223.56		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	6/21/2006	229.5	7.63	221.87		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	9/13/2006	229.5	11.40	218.1		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5
MW-01	11/27/2006	well destroyed, Alameda County Public Works Permit #W2006-0971									
RS-02	12/14/1989	227.39									
RS-02	6/19/1994	227.39	10.89	216.50							



TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-05	09/04/96	227.61	16.50	211.11		31000	2100	11000	1100	6800	400
RS-05	12/11/96	227.61	15.88	211.73		85000	7000	21000	1800	8900	570
RS-05	2/21/97	227.61	13.76	213.85	sheen	100000	5000	22000	1700	7300	<0.5
RS-05	5/28/97	227.61	15.77	211.84		52000	4500	19000	2100	10000	<0.5
RS-05	9/2/1997	227.61	17.47	210.14		38000	2200	9400	1300	5800	<0.5
RS-05	11/24/1997	227.61	18.67	208.94		45000	4000	16000	1900	9700	<0.5
RS-05	2/25/1998	227.61	10.53	217.08		160000	2700	31000	5300	28000	<0.5
RS-05	7/8/1998	227.61	13.75	213.86		45000	2800	12000	2000	8500	<10
RS-05	9/16/1998	227.61	15.80	211.81		49000	1400	7500	1700	8600	<5
RS-05	11/24/1998	227.61	16.64	210.97		89000	5300	15000	2800	13000	<10
RS-05	2/23/1999	227.61	12.36	215.25		19000	1900	11000	2500	4800	<25
RS-05	5/5/1999	227.61	12.78	214.83		78000	2000	10000	3000	15000	540
RS-05	8/26/1999	227.61	16.06	211.55		35000	870	4000	1900	8300	<1
RS-05	11/10/1999	227.61	17.54	210.07		40000	1000	5600	1800	8100	<0.5
RS-05	2/9/2000	227.61	16.31	211.3		46000	1400	6900	2700	11000	<0.5
RS-05	6/30/2000	227.61	15.15	212.46		37000	810	5200	2200	9100	<2.5
RS-05	8/8/2000	227.61	16.10	211.51		14000	330	500	1400	6500	<0.5
RS-05	11/16/2000	227.61	17.38	210.23		23000	430	2300	1100	4800	<0.5
RS-05	3/8/2001	227.61	27.72	199.89		11000	360	260	140	1500	2.6
RS-05	5/31/2001	227.61	22.96	204.65		7500	26	11	38	470	<5
RS-05	12/18/2001	227.61	15.61	212		12000	610	1200	100	1500	<5
RS-05	2/19/2002	227.61	14.80	212.81		22000	460	1700	680	4000	<5
RS-05	5/7/2002	227.61	31.77	195.84		700	150	10	19	67	5.2
RS-05	8/6/2002	227.61	31.77	195.84		< 50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-05	11/5/2002	227.61	31.77	195.84		12000	150	360	21	890	<2
RS-05	12/12/2002	227.61	21.53	206.08							
RS-05	3/13/2003	227.61	36.70	190.91		240	5.5	1.9	2.3	9.6	1.4
RS-05	5/6/2003	227.61	14.52	213.09							
RS-05	8/13/2003	227.61	31.77	195.84		310	1.4	<0.5	1	2.9	<0.5
RS-05	11/20/2003	227.61	32.00	195.61		17000	150	720	240	1800	0.72
RS-05	1/22/2004	227.61	25.30	202.31							
RS-05	3/30/2004	227.61	21.90	205.71		4000	370	59	13	380	2.6
RS-05	6/10/2004	227.61	35.00	192.61		120	7	0.88	1.3	4.3	1.3
RS-05	9/28/2004	227.61	19.05	208.56		2600	110	89	75	56	<0.5
RS-05	12/8/2004	227.61	25.00	202.61		< 50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-05	3/23/2005	227.61	26.05	201.56		7400	890	280	180	940	5.1
RS-05	6/1/2005	227.61	25.40	202.21		3500	380	85	59	360	3
RS-05	9/21/2005	227.61	19.00	208.61		790	34	4.7	0.86	99	<0.5
RS-05	12/7/2005	227.61	27.50	200.11		2200	65	30	24	200	1.3
RS-05	3/28/2006	227.61	19.60	208.01		5000	370	130	70	550	2.4
RS-05	6/21/2006	227.61	16.70	210.91		990	42	6.5	2.4	110	<0.5
RS-05	9/13/2006	227.61	31.00	196.61		240	11	3.2	1.2	11	0.85
RS-05	12/21/2006	227.61	28.00	199.61		4800	140	120	130	440	0.78
RS-05	3/12/2007	227.61	30.00	197.61		4300	160	130	110	600	1.5
RS-05	6/20/2007	227.61	30.00	197.61		160	7.5	3	2.2	13	0.58
RS-05	9/26/2007	227.61	22.80	204.81		2300	80	57	19	350	0.59
RS-05	12/18/2007	227.61	24.65	202.96		570	15	6.8	7.8	42	<0.5
RS-05	3/12/2008	227.61	20.50	207.11		4600	330	110	98	440	1.9
RS-05	6/25/2008	227.61	34.00	193.61		74	3.7	<0.5	0.5	2	0.7
RS-05	9/17/2008	227.61	23.45	204.16		280	4.4	1.5	0.55	18	<0.5
RS-05	12/17/2008	227.61	28.20	199.41		450	2.3	1.2	1.8	13	<0.5
RS-05	3/31/2009	227.61	34.00	193.61		800	120	14	2	54	2.7
RS-05	9/8/2009	227.61	22.30	205.31		1100	6.3	1	3.9	24	1.4
RS-05	3/24/2010	227.61	33.50	194.11		1700	200	29	10	110	2.6
RS-05	6/30/2010	227.61	16.03	211.58		280	6.3	1.1	<0.5	19	<0.5
RS-05	9/16/2010	227.61	17.02	210.59		8400	110	31	180	640	<0.5
RS-05	4/6/2011	227.61	12.62	214.99		4800	100	31	200	370	<0.9
RS-05	6/29/2011	227.61	20.22	207.39		1600	110	31	180	640	<0.5
RS-05	9/14/2011	227.61	18.70	208.91		1200	7.6	4.7	6.6	74	<0.5
RS-05	3/26/2012	227.61	24.00	203.61		1500	12	12	28	90	<0.5
RS-06	12/14/1989	227.22	22.52	204.7		11000	1400	1700	160	860	
RS-06	2/91	227.22			sheen						

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
(CALIFORNIA PUBLIC HEALTH GOAL)											
RS-06	6/91	227.22				95000	4200	4200	650	3700	
RS-06	9/91	227.22			sheen						
RS-06	12/91	227.22				64000	3700	2300	730	4100	
RS-06	11/9/1992	227.22	19.43	207.79		19000	1600	710	500	1600	
RS-06	4/7/1994	227.22	14.42	212.8		16000	1200	1300	290	1100	
RS-06	6/19/1994	227.22	14.45	212.77		23000	1300	2200	590	2200	
RS-06	9/17/1994	227.22	19.52	207.7		24000	630	790	250	1100	
RS-06	3/12/1995	227.22	8.90	218.32		3200	450	13	82	230	
RS-06	10/4/1995	227.22	17.78	209.44		3700	170	250	38	290	
RS-06	12/21/95	227.22	14.98	212.24		3100	120	30	16	150	58
RS-06	03/27/96	227.22	10.00	217.22		6900	180	440	79	360	< 300
RS-06	06/11/96	227.22	12.00	215.22		7400	220	150	30	100	<1000
RS-06	09/04/96	227.22	15.00	212.22		1400	68	2.6	7.7	9.2	14
RS-06	12/11/96	227.22	12.36	214.86		1800	39	16	10	18	< 0.5
RS-06	2/21/97	227.22	10.00	217.22		2100	71	85	25	40	< 0.5
RS-06	5/28/97	227.22	13.56	213.66		1700	34	12	11	16	< 0.5
RS-06	9/2/1997	227.22	16.35	210.87		940	34	71	9	55	< 0.5
RS-06	11/24/1997	227.22	15.72	211.5		490	9	6	1	7	< 0.5
RS-06	2/25/1998	227.22	6.26	220.96		1400	22	47	5	52	< 0.5
RS-06	7/8/1998	227.22	11.41	215.81		1500	83	9	84	2	<10
RS-06	7/30/1998	227.22				<50	<0.5	<0.5	<0.5	<1	
RS-06	9/16/1998	227.22	13.42	213.8		990	23	<0.5	<0.5	<1	<1
RS-06	11/24/1998	227.22	15.91	211.31		3400	5.3	<0.5	<0.5	14	<0.5
RS-06	2/23/1999	227.22	7.00	220.22		1000	3.4	3.2	1.6	7.3	<0.5
RS-06	5/5/1999	227.22	10.29	216.93		1100	50	10	80	15	2
RS-06	8/26/1999	227.22	13.72	213.5		690	44	2.5	30	31	<5
RS-06	11/10/1999	227.22	13.90	213.32		1800	2	2	0.9	16	< 0.5
RS-06	2/9/2000	227.22	12.77	214.45		410	3	3	4	7	< 0.5
RS-06	6/30/2000	227.22	12.69	214.53		660	7	2	5	6	< 0.5
RS-06	8/8/2000	227.22	14.72	212.5		660	2	3	2	6	< 0.5
RS-06	11/16/2000	227.22	15.28	211.94		560	1	2	1	5	< 0.5
RS-06	3/8/2001	227.22	10.10	217.12		2200	<0.5	<0.5	<0.5	<0.5	****
RS-06	5/31/2001	227.22	12.96	214.26		630	<0.5	<0.5	<0.5	<0.5	<5
RS-06	12/18/2001	227.22	10.88	216.34		56	0.53	<0.5	<0.5	0.56	<0.5
RS-06	2/19/2002	227.22	11.08	216.14		<50	<0.5	<0.5	0.6	<0.5	<0.5
RS-06	5/7/2002	227.22	12.31	214.91		240	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	8/6/2002	227.22	14.23	212.99		130	<0.5	<0.5	<0.5	<0.5	3
RS-06	11/5/2002	227.22	17.99	209.23		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	12/12/2002	227.22	17.57	209.65							
RS-06	3/13/2003	227.22	11.82	215.4		120	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	5/6/2003	227.22	10.10	217.12		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	8/13/2003	227.22	13.88	213.34		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	11/20/2003	227.22	18.62	208.6		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	1/22/2004	227.22	11.24	215.98							
RS-06	3/30/2004	227.22	10.72	216.5		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	6/10/2004	227.22	13.52	213.7		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	9/28/2004	227.22	17.95	209.27		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	12/8/2004	227.22	14.80	212.42		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	3/23/2005	227.22	7.62	219.6		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	6/1/2005	227.22	10.72	216.5		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	9/21/2005	227.22	13.22	214		<50	1.5	<0.5	<0.5	<0.5	<0.5
RS-06	12/7/2005	227.22	14.02	213.2		74	0.63	<0.5	<0.5	<0.5	<0.5
RS-06	3/28/2006	227.22	6.03	221.19		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	6/21/2006	227.22	10.40	216.82		100	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	9/13/2006	227.22	12.82	214.4		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-06	11/27/2006	well destroyed, Alameda County Public Works Permit #W2006-0973									
RS-07	12/14/1989	195.99									
RS-07	7/90	195.99				5600000	24000	210000	50000	740000	
RS-07	2/91	195.99			shhen						
RS-07	6/91	195.99			sheen						
RS-07	9/91	195.99			sheen						
RS-07	12/91	195.99				270000	11000	22000	2000	13000	





TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(CALIFORNIA PUBLIC HEALTH GOAL)												
RS-07	3/24/2010	195.99	4.11	191.88		2100	130	5.8	66	14	1.6	****
RS-07	6/30/2010	195.99	4.08	191.91		no sample						
RS-07	9/16/2010	195.99	4.12	191.87		3500	490	9	56	12	3.5	****
RS-07	4/6/2011	195.99	4.12	191.87		2000	190	3.7	46	17	2.2	****
RS-07	6/29/2011	195.99	4.18	191.81		no sample						
RS-07	9/14/2011	195.99	4.30	191.69		460	0.76	<0.5	3.2	0.67	<0.5	****
RS-07	3/26/2012	195.99	4.18	191.81		350	4.6	<0.5	5.7	<0.5	<0.5	****
RS-08	12/14/1989											
RS-08	09/04/96											
RS-08	12/11/96											
RS-08	2/21/97											
RS-08	5/28/97											
RS-08	9/2/1997											
RS-08	11/24/1997											
RS-08	2/25/1998											
RS-08	7/8/1998											
RS-08	9/16/1998											
RS-08	11/24/1998											
RS-08	2/23/1999											
RS-08	5/5/1999											
RS-08	8/26/1999	214.67	7.25	207.42		160000	24000	35000	4200	24000	<5	
RS-08	11/10/1999	214.67	8.69	205.98		150000	21000	29000	3000	14000	<0.5	
RS-08	2/9/2000	214.67	7.23	207.44		14000	1900	3200	270	2300	<0.5	
RS-08	6/30/2000	214.67	3.99	210.68		6400	570	870	150	770	<0.5	
RS-08	8/8/2000	214.67	7.52	207.15		100000	24000	40000	2300	9900	<0.5	*
RS-08	11/16/2000	214.67	6.14	208.53		110000	14000	21000	2100	9600	<20	*
RS-08	3/8/2001	214.67	9.40	205.27		10000	740	840	220	990	<2	****
RS-08	5/31/2001	214.67	6.83	207.84		730	11	29	4.2	31	<5	****
RS-08	12/18/2001	214.67	7.14	207.53		4500	230	370	77	750	<0.5	****
RS-08	2/19/2002	214.67	7.69	206.98		780	33	21	5.1	45	<0.5	****
RS-08	5/7/2002	214.67	7.82	206.85		24000	1500	1800	830	2700	<10	****
RS-08	8/6/2002	214.67	13.46	201.21	0.04							
RS-08	11/5/2002	214.67	13.96	200.71	0.40							
RS-08	12/12/2002	214.67	14.38	200.29	0.08							
RS-08	3/13/2003	214.67	10.99	203.68		90000	1100	14000	2500	12000	<50	****
RS-08	5/6/2003	214.67	5.35	209.32		1600	6.7	46	21	170	<0.5	****
RS-08	8/13/2003	214.67	11.96	202.71		100000	1200	10000	2500	13000	<50	****
RS-08	11/21/2003	214.67	12.30	202.37		100000	1700	10000	1700	12000	<25	****
RS-08	1/22/2004	214.67	9.63	205.04								
RS-08	3/30/2004	214.67	8.70	205.97		18000	69	110	130	1200	<5	****
RS-08	6/10/2004	214.67	10.65	204.02		33000	210	350	360	2300	<5	****
RS-08	9/28/2004	214.67	9.00	205.67		6000	59	20	100	170	<1	****
RS-08	12/8/2004	214.67	4.50	210.17		1100	<0.5	<0.5	<0.5	0.66	<0.5	****
RS-08	3/23/2005	214.67	3.65	211.02		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-08	6/1/2005	214.67	9.70	204.97		4700	330	210	250	330	<0.5	****
RS-08	9/21/2005	214.67				could not locate, under landscaping.						
RS-08	12/7/2005	214.67	12.76	201.91		30000	1100	1500	810	2800	<5	****
RS-08	3/28/2006	214.67	3.42	211.25		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-08	6/21/2006	214.67	7.03	207.64		6300	630	710	310	720	<0.5	****
RS-08	9/13/2006	214.67	11.13	203.54		29000	1600	2800	1300	4000	<2.5	****
RS-08	12/21/2006	214.67	10.67	204		60000	1900	2000	1300	5200	<7	****
RS-08	3/12/2007	214.67				dog in backyard, could not access well						
RS-08	6/20/2007	214.67	11.19	203.48		23000	480	540	780	2600	<2.5	****
RS-08	9/26/2007	214.67				dog in backyard, could not access well						
RS-08	12/18/2007	214.67				could not unlach side gate to enter backyard						
RS-08	3/12/2008	214.67	9.36	205.31		18000	81	41	51	560	<4	****
RS-08	6/25/2008	214.67	12.28	202.39		26000	480	870	430	2800	<4	****
RS-08	9/17/2008	214.67	12.13	202.54		30000	680	880	630	3400	<4	****
RS-08	12/17/2008	214.67				dogs in backyard, could not access well						
RS-08	3/31/2009	214.67				dogs in backyard, could not access well						
RS-08	9/8/2009	214.67				dogs in backyard, could not access well						
RS-08	3/24/2010	214.67	7.78	206.89		2500	48	3	26	130	<0.5	****

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)									
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
(CALIFORNIA PUBLIC HEALTH GOAL)											
RS-08	6/30/2010	214.67				dogs in backyard, could not access well					
RS-08	9/16/2010	214.67	8.98	205.69		17000	260	140	240	1600	<0.5
RS-08	4/6/2011	214.67	3.63	211.04		570	29	0.58	<0.5	6.2	<0.5
RS-08	6/29/2011	214.67	10.20	204.47		no sample					
RS-08	9/14/2011	214.67	10.51	204.16		19000	130	60	86	1300	<0.5
RS-08	3/26/2012	214.67	3.93	210.74		<50	1.80	<0.5	<0.5	1	<0.5
RS-09	12/14/1989										
RS-09	09/04/96										
RS-09	12/11/96										
RS-09	2/21/97										
RS-09	5/28/97										
RS-09	9/2/1997										
RS-09	11/24/1997										
RS-09	2/25/1998										
RS-09	7/8/1998										
RS-09	9/16/1998										
RS-09	11/24/1998										
RS-09	2/23/1999										
RS-09	5/5/1999										
RS-09	8/26/1999	195.63	7.46	188.17		17000	3500	1200	360	1600	180
RS-09	11/10/1999	195.63	7.91	187.72		2800	520	62	46	130	<0.5
RS-09	2/9/2000	195.63	6.09	189.54		3400	650	74	64	130	<0.5
RS-09	6/30/2000	195.63	6.77	188.86		3000	600	79	74	120	<0.5
RS-09	8/8/2000	195.63	7.32	188.31		4900	500	430	160	530	<0.5
RS-09	11/16/2000	195.63	6.33	189.3		3000	350	220	90	220	<0.5
RS-09	3/8/2001	195.63	4.93	190.7		<50	3.4	<0.5	<0.5	<0.5	<0.5
RS-09	5/31/2001	195.63	4.01	191.62		510	96	6	6.2	9.1	5.5
RS-09	12/18/2001	195.63	4.81	190.82		210	11	1.8	3.9	7.6	<0.5
RS-09	2/19/2002	195.63	4.99	190.64		<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-09	5/7/2002	195.63	6.08	189.55		130	7.9	<0.5	1.2	<0.5	0.67
RS-09	8/6/2002	195.63	6.93	188.7		380	29	1.2	2.3	2.9	3.1
RS-09	11/5/2002	195.63	7.53	188.1		1800	240	9	27	110	8.6
RS-09	12/12/2002	195.63	7.23	188.4							
RS-09	3/13/2003	195.63	5.73	189.9		410	30	3	6	9.5	3.3
RS-09	5/6/2003	195.63	4.83	190.8		910	72	15	9.2	26	5.5
RS-09	8/13/2003	195.63	8.24	187.39		810	20	<0.5	2.4	1.6	3.6
RS-09	11/20/2003	195.63	6.99	188.64		3600	920	5.3	6.1	20	30
RS-09	1/22/2004	195.63	5.43	190.2							
RS-09	3/30/2004	195.63	5.07	190.56		1900	360	9.3	19	48	21
RS-09	6/10/2004	195.63	6.18	189.45		950	180	3	8.4	14	8.7
RS-09	9/28/2004	195.63	6.94	188.69		4900	1800	5.9	5	16	31
RS-09	12/8/2004	195.63	4.42	191.21		74	<0.5	<0.5	<0.5	<0.5	<0.5
RS-09	3/23/2005	195.63	4.10	191.53		540	99	1.1	1.1	4.5	3.6
RS-09	6/1/2005	195.63	5.12	190.51		3300	170	14	77	87	12
RS-09	9/21/2005	195.63	6.60	189.03		330	1.2	<0.5	<0.5	0.58	1.8
RS-09	12/7/2005	195.63	5.92	189.71		88	<0.5	<0.5	<0.5	0.58	1.2
RS-09	3/28/2006	195.63	3.76	191.87		360	11	0.72	3.6	2.5	7.1
RS-09	6/21/2006	195.63	5.40	190.23		860	23	2.9	7.2	21	7.4
RS-09	9/13/2006	195.63	6.45	189.18		350	2.4	<0.5	1.1	4.2	2.9
RS-09	12/21/2006	195.63	5.82	189.81		85	<0.5	<0.5	<0.5	<0.5	0.81
RS-09	3/12/2007	195.63	5.08	190.55		1000	25	12	14	40	7.5
RS-09	6/20/2007	195.63	6.67	188.96		1300	130	4.4	6	20	7.2
RS-09	9/26/2007	195.63	7.45	188.18		1800	310	2.3	5	24	6.3
RS-09	12/18/2007	195.63	6.05	189.58		97	2.5	<0.5	0.56	1.4	0.51
RS-09	3/12/2008	195.63	5.43	190.2		82	1.6	<0.5	<0.5	<0.5	<0.5
RS-09	6/25/2008	195.63	7.03	188.6		2500	450	14	20	81	2.8
RS-09	9/17/2008	195.63	7.81	187.82		3100	830	4.9	7.7	37	4.7
RS-09	12/17/2008	195.63	6.87	188.76		51	1.7	<0.5	<0.5	<0.5	<0.5
RS-09	3/31/2009	195.63	5.64	189.99		72	1	<0.5	<0.5	<0.5	<0.5
RS-09	9/8/2009	195.63	7.45	188.18		2800	700	2.9	5.4	21	2.7
RS-09	3/24/2010	195.63	5.26	190.37		57	3.7	<0.5	<0.5	0.58	<0.5
RS-09	6/30/2010	195.63	6.17	189.46		no samples					

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
		(CALIFORNIA PUBLIC HEALTH GOAL)										
RS-09	9/16/2010	195.63	7.09	188.54		1800	410	2.5	3.5	17	1.6	****
RS-09	4/6/2011	195.63	4.72	190.91		6400	1900	6.6	20	83	4.3	****
RS-09	6/29/2011	195.63	7.00	188.63		no samples						
RS-09	9/14/2011	195.63	7.93	187.7		240	0.52	<0.5	<0.5	<0.5	1.2	****
RS-09	3/26/2012	195.63	6.12	189.51		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	12/14/1989											
RS-10	09/04/96											
RS-10	12/11/96											
RS-10	2/21/97											
RS-10	5/28/97											
RS-10	9/2/1997											
RS-10	11/24/1997											
RS-10	2/25/1998											
RS-10	7/8/1998											
RS-10	9/16/1998											
RS-10	11/24/1998											
RS-10	2/23/1999											
RS-10	5/5/1999											
RS-10	8/26/1999	208.46	3.76	204.7		5100	160	340	190	1000	32	*
RS-10	11/10/1999	208.46	3.83	204.63		500	7	2	2	4	<0.5	
RS-10	2/9/2000	208.46	0.31	208.15		100	4	3	1	6	<0.5	
RS-10	6/30/2000	208.46	2.22	206.24		640	5	2	4	2	<0.5	
RS-10	8/8/2000	208.46	2.46	206		460	2	2	2	7	<0.5	
RS-10	11/16/2000	208.46	2.46	206		360	1	1	2	<1	<0.5	
RS-10	3/8/2001	208.46	2.82	205.64		53	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/31/2001	208.46	4.93	203.53		210	<0.5	<0.5	1.5	5	<5	****
RS-10	12/18/2001	208.46	2.10	206.36		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	2/19/2002	208.46	2.29	206.17		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/7/2002	208.46	2.92	205.54		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	8/6/2002	208.46	4.11	204.35		<50	<0.5	0.7	<0.5	1.6	<0.5	****
RS-10	11/5/2002	208.46	4.05	204.41		54	<0.5	1.2	<0.5	1.1	<0.5	****
RS-10	12/12/2002	208.46	6.81	201.65								
RS-10	3/13/2003	208.46	3.00	205.46		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/6/2003	208.46	2.55	205.91		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	8/13/2003	208.46	3.68	204.78		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	11/20/2003	208.46	4.45	204.01		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	1/22/2004	208.46										
RS-10	3/30/2004	208.46	3.05	205.41		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/10/2004	208.46	4.85	203.61		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	9/28/2004	208.46	6.75	201.71		<50	4.6	<0.5	<0.5	<0.5	<0.5	****
RS-10	12/8/2004	208.46	1.74	206.72		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	3/23/2005	208.46	1.85	206.61		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/1/2005	208.46	2.88	205.58		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	9/21/2005	208.46	4.35	204.11		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	12/7/2005	208.46	3.38	205.08		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	3/28/2006	208.46	1.75	206.71		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/21/2006	208.46	2.91	205.55		350	1.0	0.73	2.8	1.9	<0.5	****
RS-10	9/13/2006	208.46	4.18	204.28		<50	0.86	<0.5	<0.5	<0.5	<0.5	****
RS-10	12/21/2006	208.46	2.78	205.68		<50	0.86	<0.5	<0.5	<0.5	<0.5	****
RS-10	3/12/2007	208.46	2.80	205.66		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/20/2007	208.46	4.25	204.21		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	9/26/2007	208.46	4.38	204.08		150	<0.5	<0.5	2.8	16	<0.5	****
RS-10	12/18/2007	208.46	4.38	204.08		220	<0.5	<0.5	0.64	8.4	<0.5	****
RS-10	3/12/2008	208.46	2.97	205.49		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/25/2008	208.46	6.93	201.53		360	0.82	1.1	<0.5	1	<0.5	****
RS-10	9/17/2008	208.46	6.97	201.49		120	1.1	<0.5	0.78	<0.5	<0.5	****
RS-10	12/17/2008	208.46	3.72	204.74		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	3/31/2009	208.46	3.05	205.41		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	9/8/2009	208.46	7.80	200.66		77	5.6	<0.5	<0.5	<0.5	<0.5	****
RS-10	3/24/2010	208.46	2.92	205.54		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	6/30/2010	208.46				no access						
RS-10	9/16/2010	208.46	5.78	202.68		53	4.4	3.6	0.8	1.4	<0.5	****



TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)									
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
(CALIFORNIA PUBLIC HEALTH GOAL)											
R1	6/29/2011	227.69	14.52	213.17		no samples					
R1	9/14/2011	227.69	14.95	212.74		1900	3.5	0.63	3.2	1.7	<0.5
R1	3/26/2012	227.69	12.20	215.49		<50	<0.5	<0.5	<0.5	<0.5	<0.5
R2	12/14/1989										
R2	09/04/96	230.68	13.44	217.24		14000	7600	<10	170	190	<100
R2	12/11/96	230.68	12.42	218.26		488	300	1	< 0.5	30	1.6
R2	2/21/97	230.68	10.50	220.18		5700	2100	5	2	10	3
R2	5/28/97	230.68	13.10	217.58		36000	14000	63	260	220	<0.5
R2	9/2/1997	230.68	14.16	216.52		30000	12000	330	1000	790	47
R2	11/24/1997	230.68	14.71	215.97		41000	15000	830	1500	4200	<0.5
R2	2/25/1998	230.68	7.39	223.29		800	400	<0.5	<0.5	15	<0.5
R2	7/8/1998	230.68	11.27	219.41		290	31	< 0.5	1	< 1	2
R2	9/16/1998	230.68	13.73	216.95		6600	11000	24	<0.5	35	<1
R2	11/24/1998	230.68	11.67	219.01		6100	<0.5	36	<0.5	21	<0.5
R2	2/23/1999	230.68	7.55	223.13		1100	310	3	2	26	<0.5
R2	5/5/1999	230.68	10.89	219.79		11000	5300	7	36	7	8
R2	8/26/1999	227.28	13.14	214.14		6700	940	33	190	240	<1
R2	11/10/1999	227.28	14.42	212.86		5100	2600	160	1800	8100	<0.5
R2	2/9/2000	227.28	12.45	214.83		4700	1400	110	130	340	<0.5
R2	6/30/2000	227.28	12.94	214.34		7100	3200	110	300	480	<0.5
R2	8/8/2000	227.28	13.58	213.7		30000	13000	250	1000	2700	<0.5
R2	11/16/2000	227.28	14.33	212.95		44000	17000	230	790	3600	<0.5
R2	3/8/2001	227.28	11.15	216.13		2300	640	8.6	61	170	<2
R2	5/31/2001	227.28	13.38	213.9		2200	580	12	72	100	<25
R2	12/18/2001	227.28	12.35	214.93		4900	2000	120	44	280	<5
R2	2/19/2002	227.28	11.32	215.96		2100	1200	<5	14	<5	<5
R2	5/7/2002	227.28	13.15	214.13		2500	660	7.5	170	26	<2.5
R2	8/6/2002	227.28	14.51	212.77		6300	1800	150	220	340	<5
R2	11/5/2002	227.28	15.46	211.82		11000	3000	140	57	620	<20
R2	12/12/2002	227.28	15.70	211.58							
R2	3/13/2003	227.28	12.96	214.32		580	200	1.2	5.4	3.8	<1
R2	5/6/2003	227.28	11.14	216.14		70	25	<0.5	<0.5	1.3	<0.5
R2	8/13/2003	227.28	14.01	213.27		1800	340	8	49	12	<2
R2	11/20/2003	227.28	15.35	211.93		8000	1400	46	57	490	<5
R2	1/22/2004	227.28	12.10	215.18							
R2	3/30/2004	227.28	11.48	215.8		<50	3	<0.5	<0.5	<0.5	<0.5
R2	6/10/2004	227.28	13.95	213.33		77	7.7	<0.5	<0.5	<0.5	<0.5
R2	9/28/2004	227.28	14.80	212.48		500	120	2	25	2.7	0.71
R2	12/8/2004	227.28	12.25	215.03		100	8.5	<0.5	<0.5	5	<0.5
R2	3/23/2005	227.28	7.82	219.46		57	8.4	<0.5	<0.5	<0.5	<0.5
R2	6/1/2005	227.28	12.14	215.14		85	5.2	<0.5	<0.5	<0.5	<0.5
R2	9/21/2005	227.28	13.97	213.31		900	120	1.3	2.5	4.8	<0.5
R2	12/7/2005	227.28	14.51	212.77		150	8.4	<0.5	<0.5	0.5	<0.5
R2	3/28/2006	227.28	7.30	219.98		<50	7.7	<0.5	<0.5	<0.5	<0.5
R2	6/21/2006	227.28	11.90	215.38		68	4.7	<0.5	<0.5	<0.5	<0.5
R2	9/13/2006	227.28	13.66	213.62		54	0.52	<0.5	<0.5	<0.5	<0.5
R2	12/21/2006	227.28	14.43	212.85		<50	<0.5	<0.5	<0.5	<0.5	<0.5
R2	3/12/2007	227.28	12.37	214.91		210	63	<0.5	1.8	<0.5	<0.5
R2	6/20/2007	227.28	14.08	213.2		1300	250	3.6	2.7	4.1	<0.5
R2	9/26/2007	227.28	15.41	211.87		230	28	<0.5	<0.5	2.5	<0.5
R2	12/18/2007	227.28	15.87	211.41		98	<0.5	<0.5	<0.5	2.5	<0.5
R2	3/12/2008	227.28	11.45	215.83		<50	0.59	<0.5	<0.5	<0.5	<0.5
R2	6/25/2008	227.28	14.98	212.3		79	11	<0.5	<0.5	<0.5	<0.5
R2	9/17/2008	227.28	16.03	211.25		87	1.8	<0.5	5.6	0.92	<0.5
R2	12/17/2008	227.28				no sample water in shoe of casing, not representative					
R2	3/31/2009	227.28	11.42	215.86		<50	5.5	<0.5	<0.5	<0.5	<0.5
R2	9/8/2009	227.28	15.50	211.78		56	<0.5	<0.5	<0.5	<0.5	<0.5
R2	3/24/2010	227.28	11.10	216.18		140	16	<0.5	<0.5	<0.5	<0.5
R2	6/30/2010	227.28	13.30	213.98		no samples					
R2	9/16/2010	227.28	14.28	213		54	0.68	<0.5	<0.5	<0.5	<0.5
R2	4/6/2011	227.28	9.15	218.13		170	16	<0.5	<0.5	<0.5	<0.5
R2	6/29/2011	227.28	13.12	214.16		no samples					

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
		(CALIFORNIA PUBLIC HEALTH GOAL)										
R2	9/14/2011	227.28	14.15	213.13		1900	130	4.9	11	5.4	<0.5	****
R2	3/26/2012	227.28	13.55	213.73		58	2.2	<0.5	<0.5	<0.5	<0.5	****
R3	12/14/1989											
R3	09/04/96	230.32	9.90	220.42		<50	<0.5	<0.5	<0.5	<2	<5	
R3	12/11/96	230.32	8.18	222.14		<50	<0.5	<0.5	<0.5	<1	5	
R3	2/21/97	230.32	6.76	223.56		340	35	59	8	54	<0.5	*
R3	5/28/97	230.32	9.98	220.34		<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	9/2/1997	230.32	10.86	219.46		<50	4	<0.5	<0.5	<1	<0.5	*
R3	11/24/1997	230.32	11.20	219.12	not enough water to sample. No sample							
R3	2/25/1998	230.32	3.42	226.9		<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	7/8/1998	230.32	8.78	221.54		140	<0.5	<0.5	4	24	<1	*
R3	9/16/1998	230.32	10.38	219.94		<50	<0.5	<0.5	<0.5	<1	<1	*
R3	11/24/1998	230.32	11.12	219.2	not enough water to sample. No sample							
R3	2/23/1999	230.32	3.95	226.37		<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	5/5/1999	230.32	7.58	222.74		80	9	<0.5	<0.5	<1	6	
R3	8/26/1999	227.25	10.76	216.49		<50	2	<0.5	<0.5	<1	1	*
R3	11/10/1999	227.25	11.09	216.16		140	3	4	1	11	<0.5	
R3	2/9/2000	227.25	8.76	218.49		<50	2	<0.5	<0.5	<1	<0.5	
R3	6/30/2000	227.25	9.67	217.58		<50	0.7	<0.5	1	1	<0.5	
R3	8/8/2000	227.25	10.44	216.81		72	<0.5	<0.5	<0.5	<1	<0.5	
R3	11/16/2000	227.25	10.26	216.99		110	4	1	<0.5	3	<0.5	
R3	3/8/2001	227.25	6.54	220.71		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/31/2001	227.25	10.01	217.24		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/18/2001	227.25	6.79	220.46		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	2/19/2002	227.25	7.86	219.39		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/7/2002	227.25	9.20	218.05		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	8/6/2002	227.25	10.62	216.63		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	11/5/2002	227.25	11.07	216.18		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/12/2002	227.25	11.28	215.97								
R3	3/13/2003	227.25	8.69	218.56		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/6/2003	227.25	8.02	219.23		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	8/13/2003	227.25	dry		DRY							
R3	11/20/2003	227.25	dry		DRY							
R3	1/22/2004	227.25	7.30	219.95								
R3	3/30/2004	227.25	7.85	219.4		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/10/2004	227.25	10.30	216.95		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/28/2004	227.25	dry		DRY							
R3	12/8/2004	227.25	9.00	218.25		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	3/23/2005	227.25	4.90	222.35		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/1/2005	227.25	8.60	218.65		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/21/2005	227.25	10.80	216.45		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/7/2005	227.25	11.12	216.13	no sample water in shoe of casing, not representative							
R3	3/28/2006	227.25	3.72	223.53		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/21/2006	227.25	8.82	218.43		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/13/2006	227.25	10.52	216.73		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/21/2006	227.25	9.97	217.28		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	3/12/2007	227.25	7.45	219.8		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/20/2007	227.25	10.43	216.82		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/26/2007	227.25			no sample water in shoe of casing, not representative							
R3	12/18/2007	227.25			no sample water in shoe of casing, not representative							
R3	3/12/2008	227.25	7.93	219.32		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/25/2008	227.25	10.87	216.38		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/17/2008	227.25			no sample water in shoe of casing, not representative							
R3	12/17/2008	227.25			no sample water in shoe of casing, not representative							
R3	3/31/2009	227.25	7.27	219.98		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	9/8/2009	227.25	10.95	216.3		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	3/24/2010	227.25	7.22	220.03		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/30/2010	227.25	9.95	217.3	no samples							
R3	9/16/2010	227.25	10.95	216.3		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	4/6/2011	227.25	5.50	221.75		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	6/29/2011	227.25	9.40	217.85	no samples							
R3	9/14/2011	227.25	10.94	216.31	no samples, stagnant water trapped in casing shoe							

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(CALIFORNIA PUBLIC HEALTH GOAL)		227.25	7.80	219.45		<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
T 1	12/14/1989											
T 1	09/04/96											
T 1	12/11/96											
T 1	2/21/97											
T 1	5/28/97											
T 1	9/2/1997											
T 1	11/24/1997											
T 1	2/25/1998											
T 1	7/8/1998											
T 1	9/16/1998											
T 1	11/24/1998											
T 1	2/23/1999											
T 1	5/5/1999											
T 1	8/26/1999	195.11	2.44	192.67		40000	7200	5000	950	8100	53	*
T 1	11/10/1999	195.11	2.23	192.88		46000	5600	3600	910	6500	<0.5	****
T 1	2/9/2000	195.11	2.22	192.89		35000	2900	5700	720	6600	<0.5	****
T 1	6/30/2000	195.11	2.22	192.89		30000	3400	3200	950	4600	<5	****
T 1	8/8/2000	195.11	2.73	192.38		8900	1600	760	260	870	<5	****
T 1	11/16/2000	195.11	2.72	192.39		4000	1300	92	80	290	<0.5	****
T 1	3/8/2001	195.11	2.12	192.99		25000	4400	3400	770	3200	26	****
T 1	5/31/2001	195.11	2.30	192.81		8900	940	210	340	1500	<50	****
T 1	12/18/2001	195.11	2.20	192.91		48000	3700	5500	1200	5300	24	****
T 1	2/19/2002	195.11	1.96	193.15		64000	8600	6000	1700	6800	55	****
T 1	5/7/2002	195.11	2.22	192.89		41000	9200	910	2000	6200	62	****
T 1	8/6/2002	195.11	2.32	192.79		28000	5500	240	1300	2600	32	****
T 1	11/5/2002	195.11	2.52	192.59		11000	3000	65	660	610	18	****
T 1	12/12/2002	195.11	2.55	192.56								
T 1	3/13/2003	195.11	2.23	192.88		930	150	17	23	60	2.6	****
T 1	5/6/2003	195.11	2.37	192.74		6800	1000	230	310	820	10	****
T 1	8/13/2003	195.11	2.41	192.7		9600	1500	110	440	910	10	****
T 1	11/20/2003	195.11	2.50	192.61		10000	1800	120	520	510	11	****
T 1	1/22/2004	195.11										
T 1	3/30/2004	195.11				15000	1800	660	610	2000	8.6	****
T 1	6/10/2004	195.11	2.40	192.71		5500	570	2	240	130	2.7	****
T 1	9/28/2004	195.11	2.52	192.59		8700	2600	100	450	15	15	****
T 1	12/8/2004	195.11	1.96	193.15		2900	820	32	14	47	6.9	****
T 1	3/23/2005	195.11	car			2800	220	3	120	76	1.7	****
T 1	6/1/2005	195.11	2.25	192.86		46000	14000	650	1900	2900	54	****
T 1	9/21/2005	195.11	2.42	192.69		17000	4500	81	620	200	28	****
T 1	12/7/2005	195.11	2.26	192.85		18000	4000	480	780	1100	25	****
T 1	3/28/2006	195.11	car			27000	4400	1600	890	2700	20	****
T 1	6/21/2006	195.11	2.48	192.63		14000	5200	310	270	680	19	****
T 1	9/13/2006	195.11	2.43	192.68		12000	5100	88	230	320	22	****
T 1	12/21/2006	195.11	2.28	192.83		18000	4600	620	850	2000	21	****
T 1	3/12/2007	195.11	2.24	192.87		19000	4700	750	870	2300	16	****
T 1	6/20/2007	195.11	2.47	192.64		12000	4300	130	170	250	18	****
T 1	9/26/2007	195.11	2.52	192.59		10000	4200	63	45	68	14	****
T 1	12/18/2007	195.11	1.75	193.36		12000	3000	450	360	480	15	****
T 1	3/12/2008	195.11	2.23	192.88		22000	6600	1200	960	2300	25	****
T 1	6/25/2008	195.11	2.55	192.56		13000	5200	160	300	280	18	****
T 1	9/17/2008	195.11	3.12	191.99		8600	3400	47	29	81	9.4	****
T 1	12/17/2008	195.11	2.32	192.79		5600	1500	130	140	310	4.9	****
T 1	3/31/2009	195.11	2.32	192.79		24000	5800	830	1300	3700	16	****
T 1	9/8/2009	195.11	2.90	192.21		7900	2700	57	50	180	7.8	****
T 1	3/24/2010	195.11	2.25	192.86		22000	5800	640	1200	2500	18	****
T 1	6/30/2010	195.11				no access, parked cars						
T 1	9/16/2010	195.11	2.34	192.77		13000	5100	58	110	110	<15	****
T 1	4/6/2011	195.11	2.00	193.11		41000	12000	3000	1200	3300	30	****
T 1	6/29/2011	195.11	8.08	187.03		3500	500	300	65	520	2.8	****
T 1	9/14/2011	195.11	12.00	183.11		1200	10	5.7	8.6	85	<0.5	****
T 1	3/26/2012	195.11	10.50	184.61		3600	470	160	60	370	2.4	****

TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
(CALIFORNIA PUBLIC HEALTH GOAL)											
T2	1/22/2004	195.3	2.54	192.76		see T1 for sample results					
T2	3/30/2004	195.3	2.50	192.8		see T1 for sample results					
T2	6/10/2004	195.3	2.60	192.7		see T1 for sample results					
T2	9/28/2004	195.3	car			see T1 for sample results					
T2	12/8/2004	195.3	2.04	193.26		see T1 for sample results					
T2	3/23/2005	195.3	car			see T1 for sample results					
T2	6/1/2005	195.3	car			see T1 for sample results					
T2	9/21/2005	195.3	car			see T1 for sample results					
T2	12/7/2005	195.3	car			see T1 for sample results					
T2	3/28/2006	195.3	2.00	193.3		see T1 for sample results					
T2	6/21/2006	195.3	car			see T1 for sample results					
T2	9/13/2006	195.3	car			see T1 for sample results					
T2	12/21/2006	195.3	car			see T1 for sample results					
T2	3/12/2007	195.3	car			see T1 for sample results					
T2	6/20/2007	195.3	car			see T1 for sample results					
T2	9/26/2007	195.3	car			see T1 for sample results					
T2	12/18/2007	195.3	car			see T1 for sample results					
T2	3/12/2008	195.3	car			see T1 for sample results					
T2	6/25/2008	195.3	car			see T1 for sample results					
T2	9/17/2008	195.3	car			see T1 for sample results					
T2	12/17/2008	195.3	car			see T1 for sample results					
T2	3/31/2009	195.3	car			see T1 for sample results					
T2	9/8/2009	195.3	car			see T1 for sample results					
T2	3/24/2010	195.3	car			see T1 for sample results					
T2	6/30/2010	195.3	car								
T2	9/16/2010	195.3	car								
T2	6/29/2011	195.3	8.18	187.12		see T1 for sample results					
T2	9/14/2011	195.3	10.97	184.33		see T1 for sample results					
T2	3/26/2012	195.3	10.85	184.45		see T1 for sample results					
T3	1/22/2004	202.38				see T1 for sample results					
T3	6/10/2004	202.38	9.80	192.58		see T1 for sample results					
T3	9/28/2004	202.38	9.90	192.48		see T1 for sample results					
T3	12/8/2004	202.38	9.24	193.14		see T1 for sample results					
T3	3/23/2005	202.38	car			see T1 for sample results					
T3	6/1/2005	202.38	car			see T1 for sample results					
T3	9/21/2005	202.38	car			see T1 for sample results					
T3	12/7/2005	202.38	car			see T1 for sample results					
T3	3/28/2006	202.38	car			see T1 for sample results					
T3	6/21/2006	202.38	car			see T1 for sample results					
T3	9/13/2006	202.38	car			see T1 for sample results					
T3	12/21/2006	202.38	car			see T1 for sample results					
T3	3/12/2007	202.38	car			see T1 for sample results					
T3	6/20/2007	202.38	car			see T1 for sample results					
T3	9/26/2007	202.38	car			see T1 for sample results					
T3	12/18/2007	202.38	car			see T1 for sample results					
T3	3/12/2008	202.38	car			see T1 for sample results					
T3	6/25/2008	202.38	car			see T1 for sample results					
T3	9/17/2008	202.38	car			see T1 for sample results					
T3	12/17/2008	202.38	car			see T1 for sample results					
T3	3/31/2009	202.38	car			see T1 for sample results					
T3	9/8/2009	202.38	car			see T1 for sample results					
T3	3/24/2010	202.38	car			see T1 for sample results					
T3	6/30/2010	202.38	car								
T3	9/16/2010	202.38	car			see T1 for sample results					
T3	6/29/2011	202.38	11.20	191.18		see T1 for sample results					
T3	9/14/2011	202.38	11.37	191.01		see T1 for sample results					
T3	3/26/2012	202.38	car			see T1 for sample results					
T4	1/22/2004	197.48	4.70	192.78		see T1 for sample results					
T4	3/30/2004	197.48	4.66	192.82		see T1 for sample results					
T4	6/10/2004	197.48	4.76	192.72		see T1 for sample results					



TABLE 2  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES  
DESERT PETROLEUM, INC. SITE #793  
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)									
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	free phase prod. ft	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
(CALIFORNIA PUBLIC HEALTH GOAL)											
T4	9/28/2004	197.48	4.86	192.62		see T1 for sample results					
T4	12/8/2004	197.48	4.21	193.27		see T1 for sample results					
T4	3/23/2005	197.48	4.35	193.13		see T1 for sample results					
T4	6/1/2005	197.48	car			see T1 for sample results					
T4	9/21/2005	197.48	car			see T1 for sample results					
T4	12/7/2005	197.48	car			see T1 for sample results					
T4	3/28/2006	197.48	car			see T1 for sample results					
T4	6/21/2006	197.48	car			see T1 for sample results					
T4	9/13/2006	197.48	car			see T1 for sample results					
T4	12/21/2006	197.48	car			see T1 for sample results					
T4	3/12/2007	197.48	car			see T1 for sample results					
T4	6/20/2007	197.48	car			see T1 for sample results					
T4	9/26/2007	197.48	car			see T1 for sample results					
T4	12/18/2007	197.48	car			see T1 for sample results					
T4	3/12/2008	197.48	car			see T1 for sample results					
T4	6/25/2008	197.48	car			see T1 for sample results					
T4	9/17/2008	197.48	car			see T1 for sample results					
T4	12/17/2008	197.48	car			see T1 for sample results					
T4	3/31/2009	197.48	car			see T1 for sample results					
T4	9/8/2009	197.48	car			see T1 for sample results					
T4	3/24/2010	197.48	car			see T1 for sample results					
T4	6/30/2010	197.48	car			see T1 for sample results					
T4	9/16/2010	197.48	car			see T1 for sample results					
T4	6/29/2011	197.48	car			see T1 for sample results					
T4	9/14/2011	197.48	car			see T1 for sample results					
T4	3/26/2012	197.48	car			see T1 for sample results					
LF 1	1/22/2004	226.59	29.12	197.47							
LF 1	3/30/2004	226.59	26.45	200.14		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	6/10/2004	226.59	27.57	199.02		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	9/28/2004	226.59	28.72	197.87		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	12/8/2004	226.59	car								
LF 1	3/23/2005	226.59	car								
LF 1	6/1/2005	226.59	car								
LF 1	9/21/2005	226.59	car								
LF 1	12/7/2005	226.59	26.67	199.92		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	3/28/2006	226.59	25.25	201.34		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	6/21/2006	226.59	23.05	203.54		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	9/13/2006	226.59	29.23	197.36		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	12/21/2006	226.59	32.12	194.47		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	3/12/2007	226.59	31.47	195.12		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	6/20/2007	226.59	32.72	193.87		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	9/26/2007	226.59	31.82	194.77		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	12/18/2007	226.59			car						
LF 1	3/12/2008	226.59	32.06	194.53		<50	<0.5	<0.5	<0.5	<0.5	****
LF 1	6/25/2008	226.59			well is no longer accessible						

ND BELOW LABORATORY DETECTION LIMITS  
TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
\* MTBE results confirmed by EPA Method 8260 (GC/MS)  
\*\* LAB REPORT HAD RS-6 AND RS-7 MISLABELED, RESAMPLE ON 7/30/98 CONFIRMED.  
\*\*\* WELL CASING ELEVATION SURVEY 8-27-99, WADE HAMMOND No.6163,BENCH MARK CITY OF OAKLAND #2814  
\*\*\*\* SAMPLES ANALYZED USING EPA METHOD 8260B

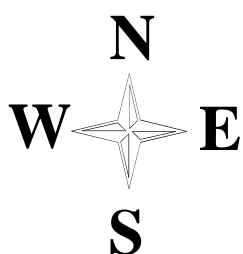
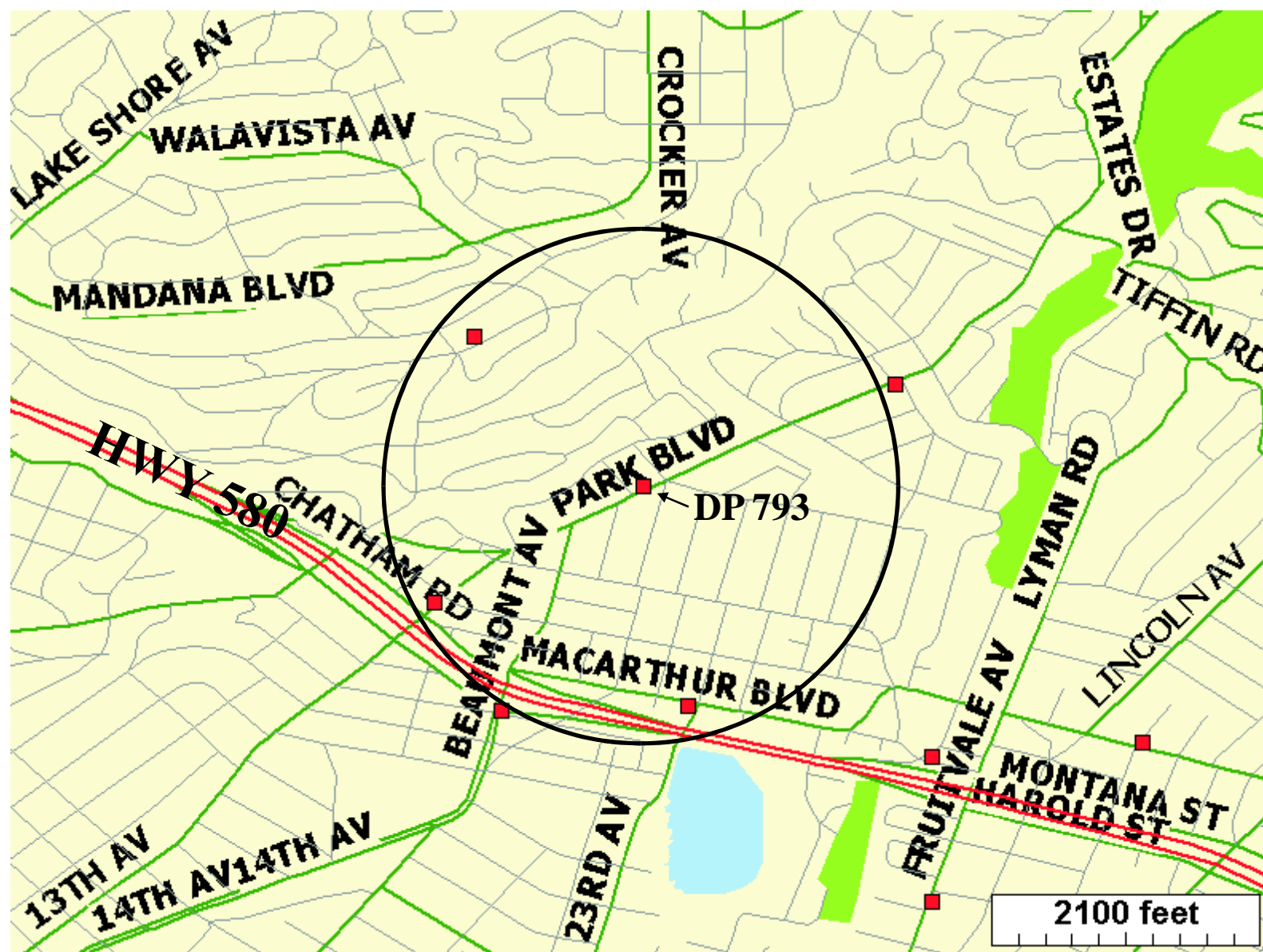


FIGURE 1  
 GEOTRACKER  
 AREA WELL & LUST MAP  
 DP 793  
 4035 PARK BLVD.  
 OAKLAND, CA

- LUST SITES
- WELLS

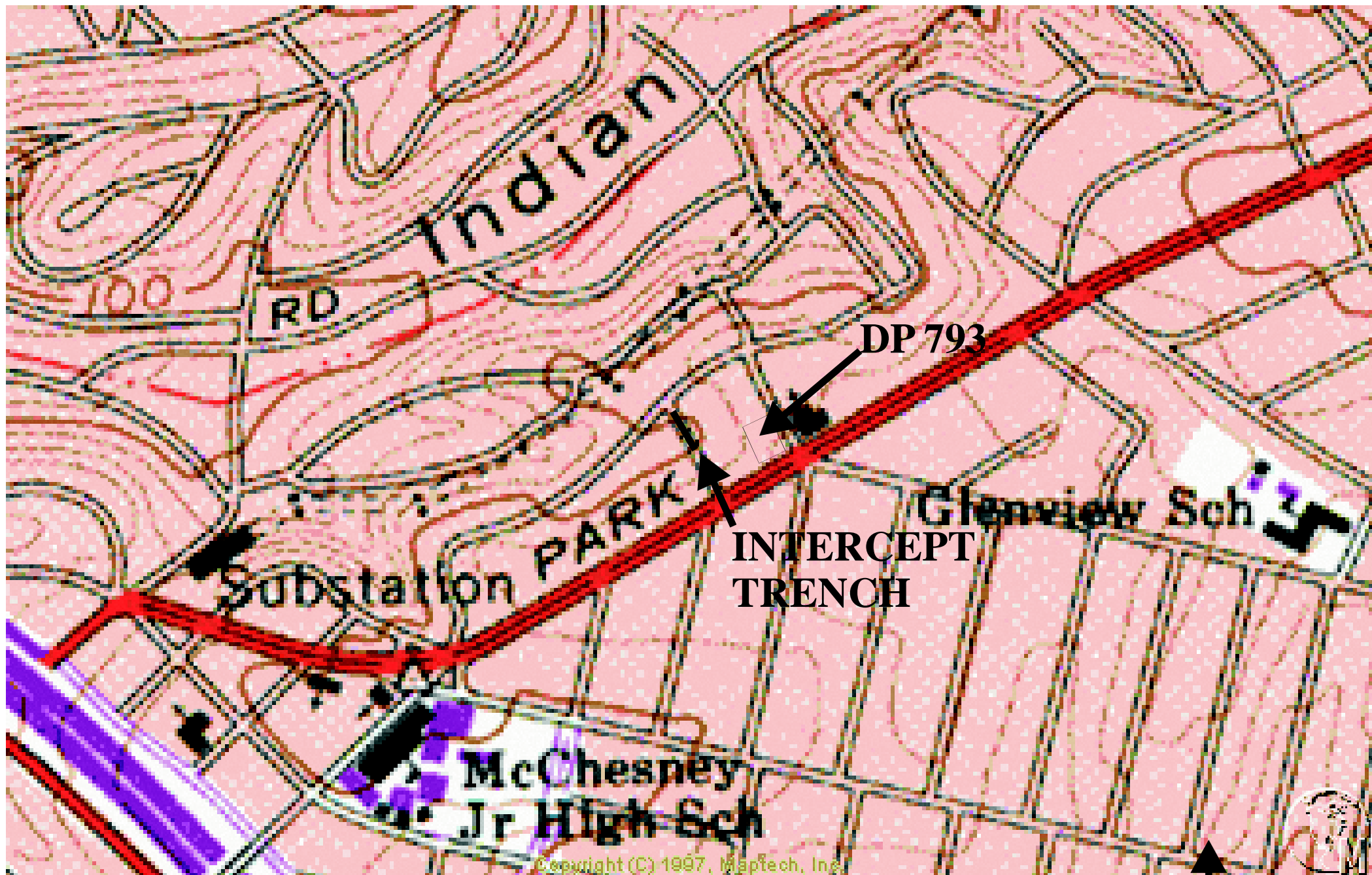
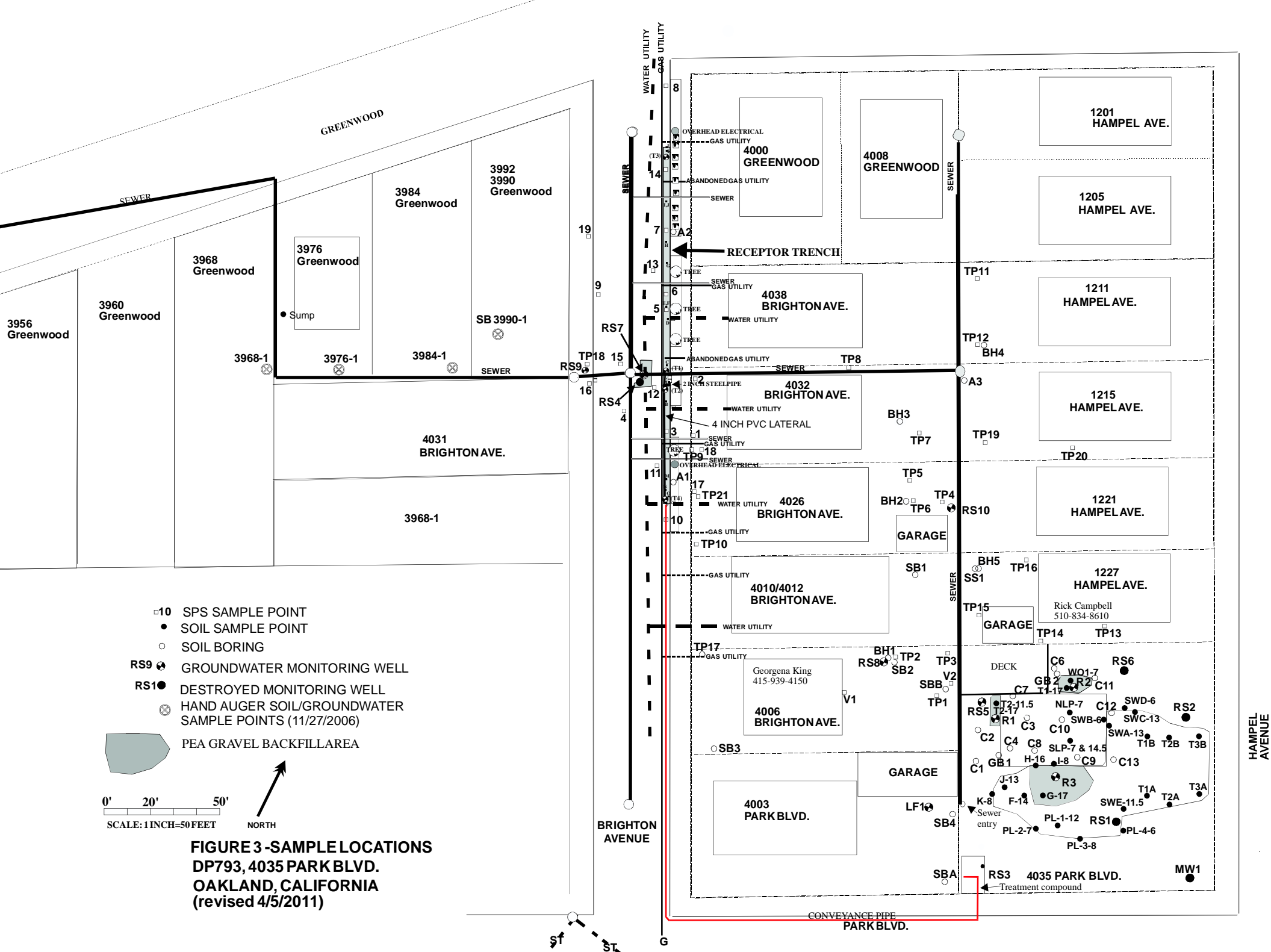
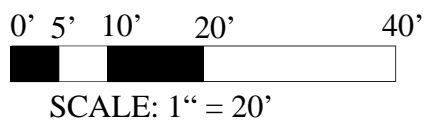
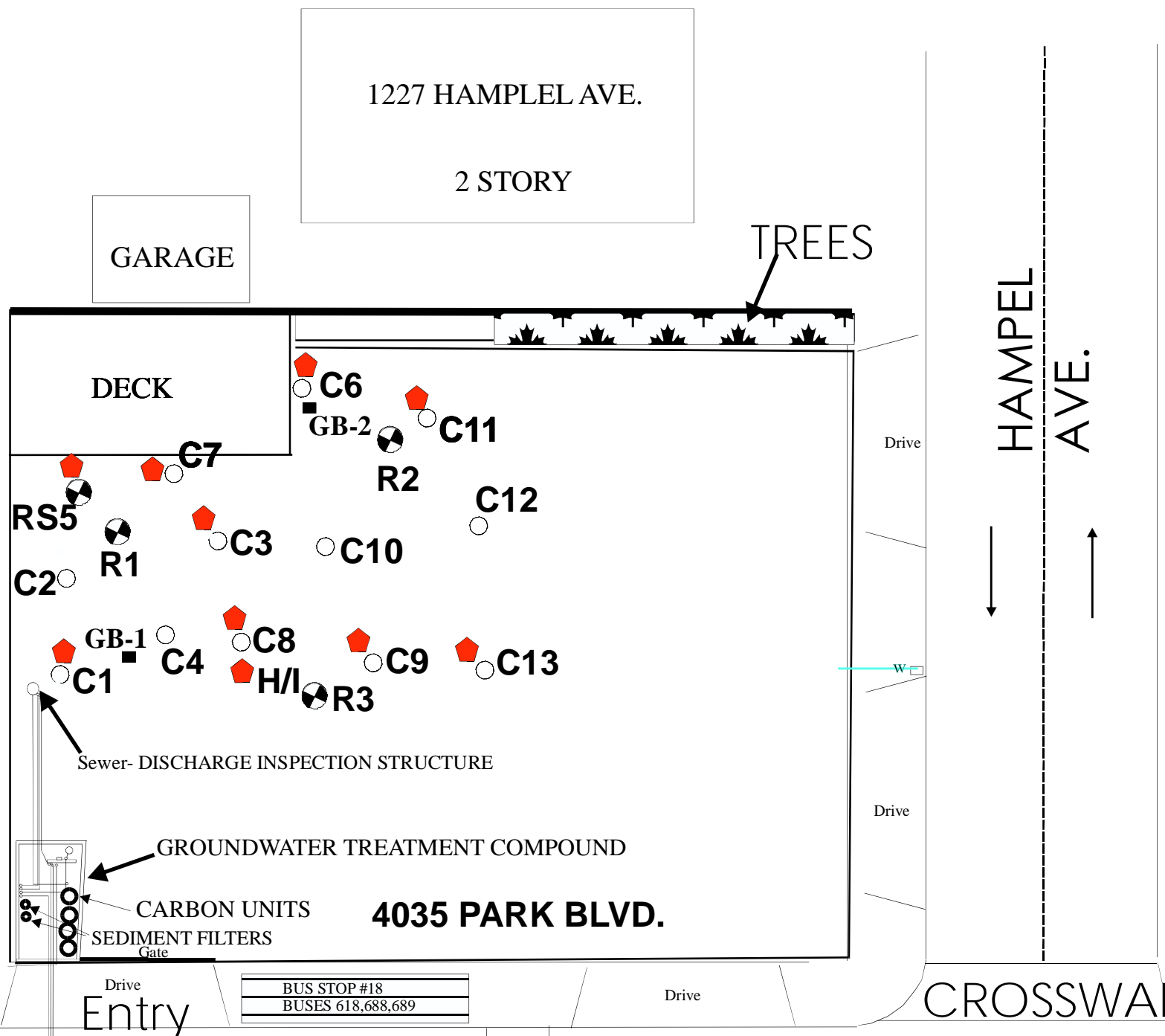


FIGURE 2  
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP



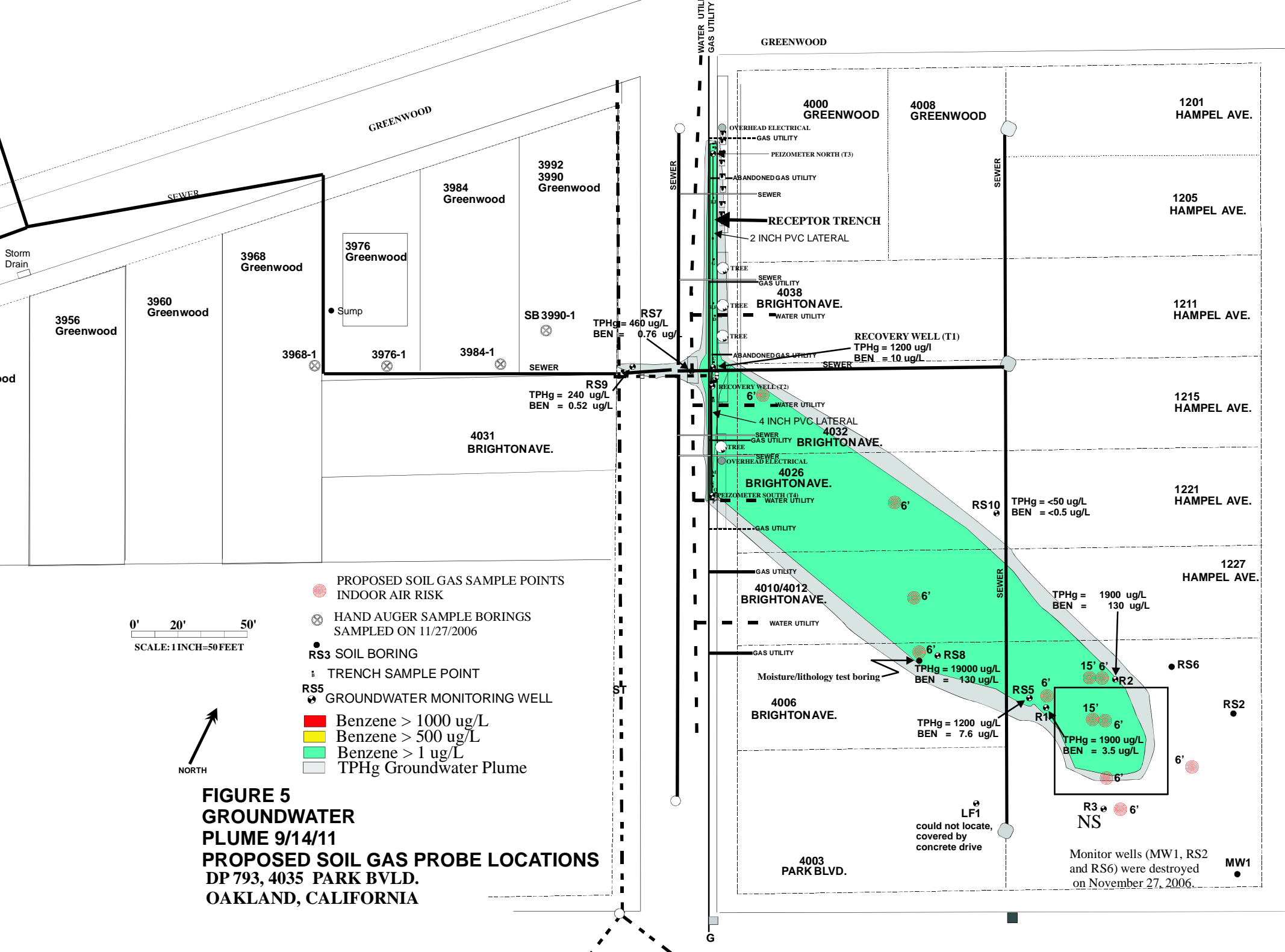
**FIGURE 3 - SAMPLE LOCATIONS  
DP793, 4035 PARK BLVD.  
OAKLAND, CALIFORNIA  
(revised 4/5/2011)**



- C13 SOIL CORES (DECEMBER 2004)
- GB-2 GEOTECH BORING LOCATIONS (FEBRUARY 2011)
- ◆ PROPOSED SOIL SAMPLE NAT BORING LOCATIONS

**FIGURE 4**

**DP793  
NEW TREATMENT COMPOUND (2-28-2011)  
WITH SOIL SAMPLE CORE LOCATIONS**



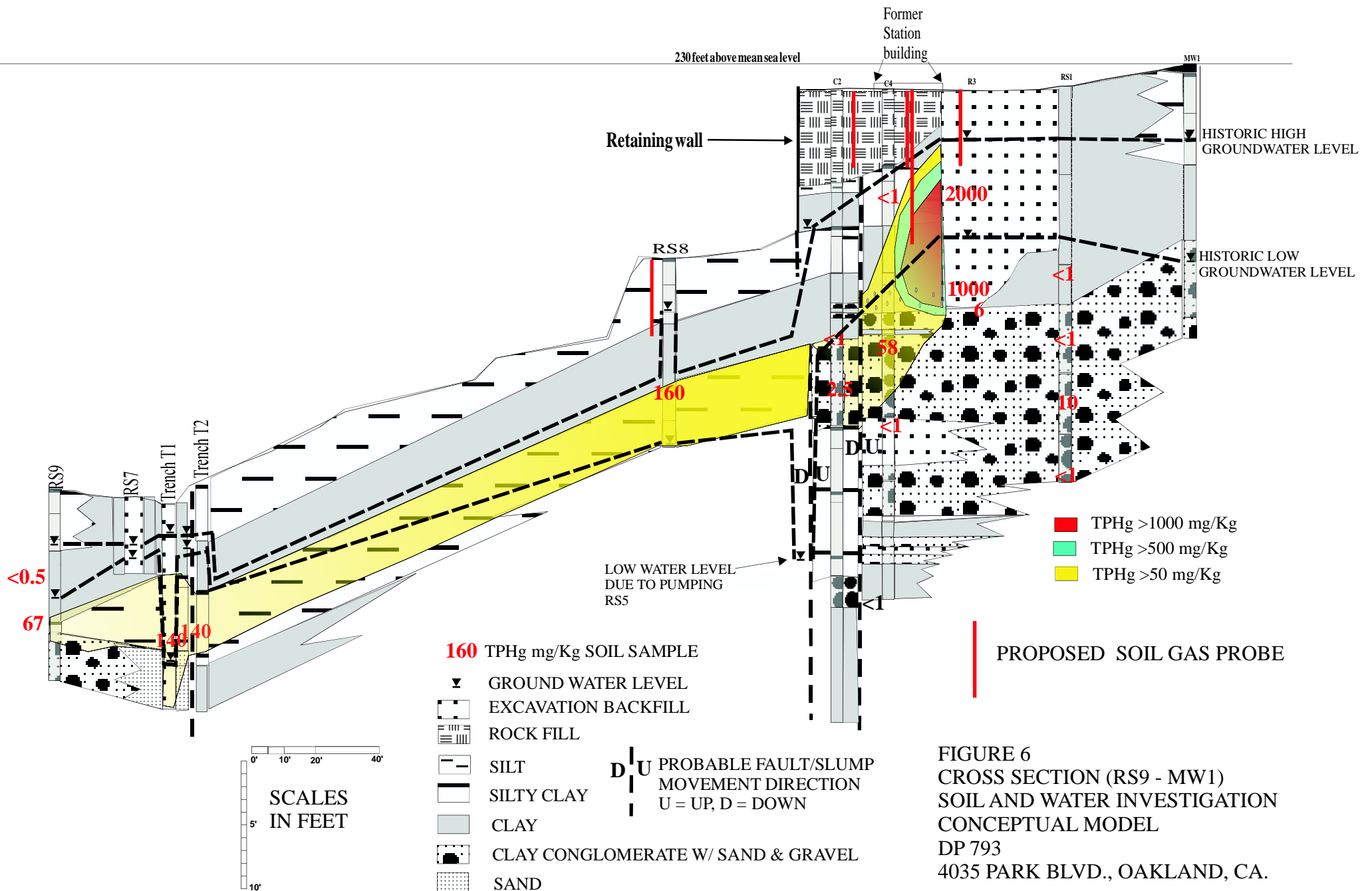


FIGURE 6  
 CROSS SECTION (RS9 - MW1)  
 SOIL AND WATER INVESTIGATION  
 CONCEPTUAL MODEL  
 DP 793  
 4035 PARK BLVD., OAKLAND, CA.

APPENDIX A

August 16, 2012

California Water Boards – San Francisco Bay

Regional Water Quality Control Board

Directive





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**San Francisco Bay Regional Water Quality Control Board**

August 16, 2012  
File No.: 01-0170 (RAL)

Desert Petroleum  
Attn: William Thompson, [r\\_tribble@sbcglobal.net](mailto:r_tribble@sbcglobal.net)  
3781 Telegraph Road  
Ventura, CA 93003-3420

Kin Man Li., [tomlee919@gmail.com](mailto:tomlee919@gmail.com)  
P.O. Box 348  
Oakland, CA 94604

Tony Razi  
3609 East 14<sup>th</sup> Street  
Oakland, CA 94601

**SUBJECT: Requirement for Investigation Work Plan - Former Desert Petroleum Site,  
4035 Park Boulevard, Oakland, Alameda County**

Dear Sirs:

This letter requires you to prepare an investigation work plan to determine the extent of natural degradation of the hydrocarbon contamination at this site. You are also directed to shut down the groundwater extraction and treatment system at this site.

Regional Water Board staff has reviewed recent work at your site including your *Draft Corrective Action Plan (CAP)*, dated February 24, 2012, and *Quarterly Update Status Report*, dated July 5, 2012. The CAP recommended continued groundwater extraction and treatment and an investigation to support a risk assessment in support of natural attenuation. The proposed investigation included soil borings with soil and groundwater sampling to evaluate current conditions in soil to evaluate natural degradation. The CAP also proposed collecting soil vapor samples. Some earlier work plans (February 2006, September 2008, and November 2011) have proposed additional excavation as a remedy.

The low flow rates (approximately ½ gallon per minute) and moderate concentrations of hydrocarbons in the extracted water have resulted in very low mass removal rates from the groundwater pump and treat system. The amount of mass removed, and corresponding decrease in risk, may not justify the costs involved with the current remedial system. Therefore, as stated above, you are directed to shut down the extraction system for now. You should evaluate the effectiveness and need for the system after the next semi-annual groundwater sampling event in September.

---

JOHN MULLER, CHAIR | BRUCE H. WOLFE, EXECUTIVE OFFICER

1616 Clay St., Suite 1400, Oakland, CA 94612 | [www.waterboards.ca.gov/sanfrancisco/bay](http://www.waterboards.ca.gov/sanfrancisco/bay)

At this time Regional Water Board staff does not see a need for additional soil excavation. All impacted soil is covered with several feet to yards of clean soil and all impacted soil samples are at least eight years old. Hydrocarbons in soil present at that time have likely degraded to substantially lower concentrations by now. Therefore, you are directed to not excavate more soil at this time.

Your investigation approach proposed in your CAP is reasonable; that is to collect more data that may justify remediation by natural attenuation. We agree with the need for and proposed locations for soil vapor sampling because vapor is the most likely complete exposure pathway. We also agree with collecting additional soil samples; however you must provide a location map. You should modify your proposed work to include the following:

- Provide a location map of the proposed soil borings.
- Analyze shallower soil samples, in the top 5-feet, for use with risk analysis for direct exposure. Your proposed sampling starts at 8-feet to as deep as 20-feet depending on location and was designed to match prior sample depths and locations. Potential construction or utility workers could come in contact with shallow soil, in addition shallow soil is used when evaluating for potential risk to shallow soil vapor.
- No samples need to be analyzed for oxygenates (MTBE) based on the very low or non-detectable results in prior samples. Samples shall be analyzed for TPHg and BTEX.
- Include oxygen analysis for soil vapor samples. Oxygen is important for the degradation of hydrocarbon vapors.
- Modify your proposed soil vapor sampling as needed to comply with the April 2012, *Advisory, Active Soil Gas Investigations*, published by the DTSC and available at this link [http://www.dtsc.ca.gov/SiteCleanup/Vapor\\_Intrusion.cfm](http://www.dtsc.ca.gov/SiteCleanup/Vapor_Intrusion.cfm)
- In at least two soil vapor locations collect vapor samples from two depths to enable evaluation of vertical attenuation.
- Include a survey for nearby private/public wells that could become impacted.
- Include a description of the nearest surface water that could become impacted.

The revised work plan should contain the objectives, details and the rationale for sample locations, sample depths, sampling methods, sample analysis and the schedule for the proposed work.

**Specifically, you are required to submit an acceptable technical report consisting of a revised work plan by September 21, 2012.**

Desert Petroleum, as the owner of the property during the release is named as a responsible party. Mr. Man Li and Mr. Razi are also named as subsequent property owners.

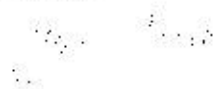
This requirement for a report is made pursuant to Water Code Section 13267, which allows the Water Board to require technical or monitoring program reports from any person who has discharged, discharges, proposes to discharge, or is suspected of discharging waste that could affect water quality. The attachment provides additional information about Section 13267 requirements. Any extension in the above deadline must be confirmed in writing by Regional Water Board staff.

You are required to submit all documents in electronic format to the State Water Resources Control Board's GeoTracker database. Guidance for electronic information submittal is available at [http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/). Please note that this requirement includes all analytical data, monitoring well latitudes, longitudes, and elevations, water depths, site maps, boring logs (PDF format), and complete copies of reports and correspondence including the signed transmittal letters and professional certifications (PDF format).

All reports submitted should have the Regional Water Board file number 01-0170 on the first page of the report. Copies of all submittals should also be sent to Alameda County Environmental Health Department.

If you have any questions, please contact Ralph Lambert of my staff at (510) 622-2382 or via e-mail at [ralambert@waterboards.ca.gov](mailto:ralambert@waterboards.ca.gov).

Sincerely,



Bruce H. Wolfe  
Executive Officer

Digitally signed by Stephen Hill  
Date: 2012.08.16 11:02:01  
-07'00'

Attachment: Fact Sheet – Requirements for Submitting Technical Reports Under Section 13267 of the California Water Code

cc: Lisa Labrado, State UST Fund Unit, [lalabrado@waterboards.ca.gov](mailto:lalabrado@waterboards.ca.gov)  
George Converse, Western Geo-Engineers, [wgege@cal.net](mailto:wgege@cal.net)  
Donna Drogos, Alameda County Environmental Health, [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org)  
Robert Gray, Attorney for Glenview Neighborhood Association, [r\\_gray40@sbcglobal.net](mailto:r_gray40@sbcglobal.net)  
Robert Roat, Glenview Neighborhood Association, [broat@earthlink.net](mailto:broat@earthlink.net)