desert petroleum inc.

Mr. Scott Seery.
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6783
FACSMILE (510) 337-9335

January 28, 2004

RE: The following report documents the fourth quarter 2003 sampling at DP793, 4035 Park Blvd., Oakland, California 94602.

Dear Mr. Seery:

I have reviewed the enclosed report that I contracted Western Geo-Engineers to prepare and

1. ____agree____ disagree with the scope and findings.

Sincerely,

William Thompson, Desert Petroleum, Inc.

5/24/04
date

FOURTH QUARTER 2003
GROUNDWATER SAMPLING REPORT/UPDATE STATUS
WITH
WASTEWATER DISCHARGE REPORT (APPENDIX E)

AT

FORMER DESERT SITE DP 793
4035 PARK BLVD.
OAKLAND, CA.

FOR

DESERT PETROLEUM

January 13, 2004

BY

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

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Mr. Bill Thompson
Desert Petroleum
P.O. Box 1601
Oxnard, California 93032
(805) 644-6784 FAX (805) 654-0720

January 13, 2004

Dear Mr. Thompson:

The following report documents the fourth quarter 2003 sampling at DP793, 4035 Park Blvd., Oakland, California.

1.0 SITE LOCATION AND IDENTIFICATION NUMBERS

Former Desert Petroleum #793 is a non-active service station (USTs and associated piping removed June 23, 1994), 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).

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

2.0 SITE INVESTIGATION/REMEDIATION 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 8, 1989	Desert Petroleum submitted Unauthorized Release Report, drilling permits for site assessment obtained from Alameda County Flood Control and Water Conservation District, Zone 7, Underground Service Alert was notified.
December 11, 1989	Onsite drilling/sampling and well installation initiated. Sample borings RS-1, RS-2, RS-3, RS-5 and RS-4. Groundwater monitoring wells installed into borings RS-1, RS-5, and RS-6. Vapor extraction well installed into boring RS-2.
December 12, 1989	Encroachment permit secured from the City of Oakland for assessment work in Brighton Avenue. Sample boring RS-4 drilled and sampled just east of the sewer access in Brighton Avenue to the 10 foot depth.
December 13, 1989	The area northeast of the sewer access was excavated with a backhoe. Gasoline appeared to be seeping from the backfill around the sewer line. A water supply line was inadvertently broke (USA markings incorrectly marked the location of this line). A vacuum truck was used to pump out the water/product from the excavation. Approximately 7,200 gallons of water/gasoline was manifested and sent to H & H Shipyard for treatment and disposal. The water line was repaired, perforated 4 inch PVC pipe was placed vertically into the excavation and the excavation backfilled with pea gravel from approximately the 8 foot depth to subgrade, well RS-7. A portable vapor extraction unit connected to the sewer and RS-7 (operated during daylight hours).
December 15, 1989	RSI S.A.V.E. vapor extraction system installed and connected to onsite wells RS-1, RS-2, RS-5 and RS-6. Operated continuously for one week, then during daylight hours thereafter due to noise disturbance of neighbors. Length of vapor extraction and amounts of hydrocarbons removed not documented.
July 24, 1990	Soil boring/sampling investigations near the sewer lateral in residential backyard 1227 Hampel Avenue.
August 21, 1990	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. 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. Excavating removed monitor well RS-1.
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.
September 5, 1995	Drill/sampled and installed replacement well for RS-1 (MW-1).
May 2, 1996	Soil Probe Survey 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.
January 17, 1997	Soil Probe Survey Brighton Avenue
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. Installed wells RS-8, RS-9 and RS-10.
October 7, 1999	Pumped 19,451 gallons of gasoline contaminated groundwater from receptor trench, stored in above ground 22,000 gallon Baker tank.
January 24, 2000	Obtained sewer discharge permit from East Bay Municipal Utility District, started discharge of water stored in Baker tank to city sewer.
May 4, 2000	Started weekly purging of receptor trench well T1 (4 hours once per week). Discharged purged water through water carbon and then to sewer.
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).
July 19, 2001	Ceased pumping of RS-5 and weekly purging of T1; 62,511 gallons removed from T1 and 78,919 gallons removed from RS-5 (total 141,430 gallons of gasoline contaminated groundwater treated and disposed to sewer).
March 21, 2002	Resumed pumping at RS-5.
August 6, 2002	246,849 gallons of gasoline contaminated groundwater pumped, treated and disposed to sewer.
November 20, 2002	Commenced weekly hand bailing of free phase product from well RS-8.
December 12, 2002	Purged receptor trench of 1432 gallons gasoline tainted groundwater.
January 9, 2003	Purged receptor trench of 1349 gallons gasoline tainted groundwater.
January 30, 2003	Purged receptor trench of 1624 gallons gasoline tainted groundwater.
March 13, 2003	Purged receptor trench of 1413 gallons gasoline tainted groundwater.
April 3, 2003	Purged receptor trench of 1305 gallons gasoline tainted groundwater.
April 9, 2003	Demolished existing service station building.
April 15, 2003	Replaced RS05 groundwater recovery pump with WEGE pump, while RS05 pump is serviced.
May 1, 2003	Reinstalled RS05 groundwater recovery pump. Submited Workplan to Investigate Contaminated Soils Above and Below the Water Table at the Former Area of the Station Building, 4035 Park Blvd., Oakland, CA.
May 6, 2003	Purged receptor trench of 1589 gallons gasoline tainted groundwater.
May 21, 2003	Purged receptor trench of 2544 gallons gasoline tainted groundwater.
June 25, 2003	Purged receptor trench of 1796 gallons gasoline tainted groundwater.

July 17, 2003	Purged receptor trench of 1560 gallons gasoline tainted groundwater.
July 31, 2003	Notice to initiate Workplan submitted May 1, 2003
August 6, 2003	Alameda County Health, Scott Seery, phoned Western Geo-Engineers, notifying them not to proceed with workplan.
August 13, 2003	Purged receptor trench of 1574 gallons gasoline tainted groundwater.
September 4, 2003	Purged receptor trench of 1477 gallons gasoline tainted groundwater.
October 3, 2003	Purged receptor trench of 1285 gallons gasoline tainted groundwater.
October 16, 2003	Remove water carbon unit #1, placed new water carbon in #2 position and move #2 water carbon into #1 position.
November 20, 2003	Purged receptor trench of 1303 gallons gasoline tainted groundwater.
December 18, 2003	Purged receptor trench of 1303 gallons gasoline tainted groundwater.

3.0 LOCAL GEOLOGY

3.1 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.

3.2 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. 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 RS5 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.

4.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES

Groundwater samples were collected on November 20, 2003. Samples were analyzed for Total Petroluem Hydrocabons as gasoline, Benzene, Toluene, Ethylbenzene, Xylenes and the fuel oxygenants; Methyl tert-Butal Alcohol (MtBE), Diisopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME) and Tert-Butanol (TBA) using EPA method 8260B, see Table 1. Figure 3 shows the positions of the groundwater monitoring wells, the receptor trench and previous sample locations.

4.1 Depth to Water Measurements

On November 20, 2003 depth to water was measured at each well using a product/water interface probe. Measurements are referenced to the surveyed elevation at the top of casing at each well. Table 1 shows the elevation of groundwater with respect to mean sea level for all wells through November 20, 2003.

5.0 RESULTS OF QUARTERLY GROUNDWATER MONITORING

5.1 Groundwater Gradient and Flow Direction

Figure 4 shows the groundwater elevation gradients and flow direction that were derived from the depth to water measurements of the monitor wells on November 20, 2003, prior to purging the wells for sampling, see Table 1 and Appendix A. On February 15, 2001 a submersible pump was placed into onsite well RS-5 to try and capture contaminated groundwater beneath the site and adjoining properties. The pump rate was set at approximately 2 gpm. The pump was removed from RS-5 on July 19, 2001. After evaluation of the effects the pumping had on remediating the site the pump was placed back into RS-5 on March 21, 2002. As shown on the groundwater elevation chart generated for each well, pumping from RS5 lowered the water levels in RS-6, RS-8, RS-10, R2, and MW1, see Appendix B. Table 1 shows the groundwater elevations for the wells during the assessment of this site.

The current flow direction is to the northwest and west. The hydraulic gradient averages 0.083 feet/linear foot down gradient of RS-10 to the receptor trench well T1, see Figure 4. The present flow direction and hydraulic gradient are consistent with previous determinations by WEGE. Also evident on Figure 4 is the "cone of influence" out to RS8, generating from RS5. For reference, areas that have been documented to contain contaminated soils (TPHg > 10 mg/Kg) have been shaded yellow.

5.2 Results of Certified Analysis of Groundwater Samples

The results of the certified analyses of groundwater samples collected on November 20, 2003 are shown in Table 1.

TPH-G concentrations in water samples from the eight monitor wells, the receptor trench well and three recovery wells ranged from 100000 ug/L at monitor well RS8, to below laboratory lower detection limits of 50 ug/L in wells MW1, RS2, RS6 and RS10. R1 and R3 were dry during this sampling round. No free phase product was found in Well RS8 during this quarter.

Benzene concentrations ranged from a maximum of 1800 ug/L in receptor trench well T1 to below the laboratory lower detection limits (0.5 ug/L) at wells MW1, RS2, RS6 and RS10, see Appendix C - Laboratory Report.

Analysis results for Oxygenants were below the laboratory lower detection limit in wells MW1, RS2, RS6, RS7, RS8, RS10 and R2. Well RS5 contained MtBE at 0.72 ug/L, RS9 contained MtBE at 30 ug/L and TBA at 46 ug/L and T1 contained MtBE at 11 ug/L. T1 and RS9 are located within or near Brighton Street and RS5 is the pumping well, indicating that the MtBE source(s) may be the cars parked along Brighton Street. During the September 16, 1998 all Fuel Oxygenants; MTBE, Di-isopropyl Ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl-t-Butyl Ether (ETBE) and t-Amyl Methyl Ether (TAME) were confirmed with EPA Method 8260. These analytes were below laboratory lower detection limits. The presence of TBA at well RS9 most likely indicates the partial oxygenation of MtBE.

Figure 5 (November 20, 2003) shows the lateral distribution of the hydrocarbon plume with benzene distinction in groundwater during pumping from RS-5. The current plume(s) (Figure 5) has decreased in concentration at wells RS7, RS8, RS10, R2 and T1 when compared to the previous year sampling (November 5, 2002).

TPHg - Figure 5

Total Petroleum Hydrocarbons, gasoline range has a laboratory lower detection limit (LLDL) of 50 ug/L, was detected in wells RS5, RS7, RS8, RS9, R2 and T1 ranging from a low of 3600 ug/L at RS9 to a high of 100000 ug/L at RS8 (no floating product was observed in this well during this quarter).

Benzene - Figure 5

Benzene has a LLDL of 0.5 ug/L. The recommended CPHG (California Public Health Goal) for Benzene is 1 ug/L. Benzene was detected in wells R2, RS5, RS7, RS8, RS9 and T1 ranging from a low of 150 ug/L at RS5 to a high of 1800 ug/L at T1.

Toluene

Toluene has a LLDL of 0.5 ug/L. The recommended CPHG for toluene is 150 ug/L. Toluene was detected in wells R2, RS5, RS7, RS8, RS9 and T1, ranging from a low of 5.3 ug/L at well RS9 to a high of 10000 ug/L at well RS8.

Ethylbenzene

Ethylbenzene has a LLDL of 0.5 ug/L. The recommended CPHG for Ethylbenzene is 300 ug/L. Ethylbenzene was detected in wells R2, RS5, RS7, RS8, RS9 and T1, ranging from a low of 6.1 ug/L at well RS9 to a high of 1700 ug/L at well RS8.

Xylenes

Xylenes have a LLDL of 0.5 ug/L. The recommended CPHG for Xylenes is 1800 ug/L. Xylenes were detected in wells R2, RS5, RS7, RS8, RS9 and T1, ranging from a low of 20 ug/L at well RS9 to a high of 12000 ug/L at well RS8.

MtBE

MtBE has a LLDL of 0.5 ug/L. The recommended PHG for MtBE is 13 ug/L. MtBE was detected in wells RS5, RS9 and T1, ranging from a low of 0.72 ug/L at well RS5 to a high of 30 ug/L at well RS9, see Table 1 and Appendix C - Laboratory Report.

Appendix D contains charts developed for wells MW1, RS2, RS5, RS6, RS7, RS8, RS9, RS10 and trench well T1 showing TPHg & Benzene concentration with time. Wells MW1, RS2, RS6, RS7 and RS10 display reductions in concentrations with time for both TPHg and Benzene through the November 20, 2003 sampling. Wells RS5, RS9, R2 and T1 display increases in concentrations with time for both TPHg and Benzene through the November 20, 2003 sampling. RS8 displays similar concentrations with time for both TPHg and Benzene through the November 20, 2003 sampling.

6.0 PURGING OF RECEPTOR TRENCH

Commencing on May 4, 2000, weekly pumping of the receptor trench has been performed for approximately 4 hours per week, see Table 3. During purging the depth to water within the trench is lowered an average of one foot. Immediately after purging ceases, the water level in the trench

recovers to its original depth. Weekly purging of the receptor trench was suspended on July 19, 2001 at the request of Desert Petroleum. 62,511 gallons of contaminated groundwater had been removed from the trench, processed through two, in series, activated carbon water scrubs and discharged to the sanitary sewer. Due to the increase of gasoline range hydrocarbons in downgradient well RS9 sampled on November 5, 2002, the receptor trench was purged on December 12, 2002, removing 1,432 gallons during 5 hours of pumping. Periodic purging of the trench has occurred since that time. As of December 30, 2003 82,882 gallons of groundwater has been pumped from the receptor trench and purged from the groundwater monitoring wells, see Table 5.

7.0 PUMPING ON-SITE WELL RS-5

On February 15, 2001 a submersible pump with a pump bypass was placed into RS-5. The pump rate was adjusted to 1.5 gpm and allowed to continuously pump from RS-5 for one week. 3223 gallons were pumped from RS-5 through the two, in series, water carbon units and discharged to the sewer. On February 22, 2001 the pump was inspected and showed a slimy growth covering the pump and discharge line that was below the water level. The pump was cleaned and placed back into RS-5 and continued to discharge from RS-5 through the water carbon units to sewer until July 19, 2001. On July 19, 2001 Desert Petroleum requested suspension of further pumping at the site. The pump was removed and the site secured. From February 15 through July 19, 2001, 78,919 gallons of gasoline contaminated groundwater was recovered from RS-5 and treated through carbon before being discharged to the sewer. Pumping from RS5 was resumed on March 21, 2002. As of December 30, 2003 478,954 gallons of groundwater have been pumped from RS5 and treated through two, in series, water carbon units prior to being discharge to the sanitary sewer, see Table 2.

The pumping from RS-5 lowered the groundwater at this well by at least 15 feet, when compared to the previous non pumping water measurements. This created a cone of influence out to offsite wells RS-8 and RS-10, see Figure 4 and Chart - Appendix B.

8.0 FREE PHASE FLOATING PRODUCT REMOVAL

Free Phase Floating Product was discovered in well RS8, 0.04 feet in thickness, yellow in color on August 6, 2002. Since all product storage and dispensing systems have been removed from the site (June 1994), it is thought that the product found in RS8, is residual from the November 1989 release and groundwater pumping at RS-5 is retrieving this residual product. Weekly bailing of the floating product commenced on November 20, 2002 and as of December 12, 2002, (the last noted detection of free phase product in RS8) 0.014 gallons of degraded gasoline have been removed and are stored on site in a 55 gallon 17H drum, see Table 3.

9.0 SUMMARY

Until the November 2002 sampling weekly purging of the receptor trench (T1) facilitated the decrease in the TPHg concentrations in down gradient wells RS-7 and RS-9, see Table 1 with

charts RS-7. The weekly purging of the receptor trench was limited to a maximum daily discharge of 5 gpm, thus removing approximately 1200 to 2000 gallons per week. Although this does lower the water level in the trench, after pumping has ceased the water level rebounds to it original depth allowing for the gradient migration of TPHg contaminated groundwater to continue.

Pumping from RS-5 has shown to create a cone of influence off-site downgradient out to RS-8 and RS-10. Pumping has increased the dissolved oxygen in RS-5 and hydrocarbon concentrations have declined in R1, R2, R3, RS-5, and RS-10. 0.04 feet of floating product (yellow gasoline) discovered during the August 6, 2002 sampling round could indicate that the pumping at RS-5 is capturing residual free phase product in that area.

The lowest hydrocarbon concentrations were observed while the weekly pumping of the trench well and the continuous pumping of RS5 was occurring, May 31, 2001. The most recent sampling, November 20, 2003 shows continued decrease in hydrocarbons upgradient, at the site, but an increase in hydrocarbon concentrations downgradient of the site at well RS9 and at the pumping well RS5. The most down gradient well, RS9 contains moderate to low levels of gasoline range hydrocarbons; 3600 ug/L TPHg, 920 ug/L Benzene, 5.3 ug/L Toluene, 6.1 ug/L Ethylbenzene, 20 ug/L Xylenes, 30 ug/L MtBE and 46 ug/L TBA.

Previous sampling, September 2, 1999, showed that aerobic bacteria (hydrocarbon degraders) exist in the groundwater associated with the hydrocarbon plume, see Table 4. A workplan to augment the groundwater with oxygen (air sparging) and nutrients (phosphate and ammonium sulfate) dated August 29, 2000 was presented with the August 29, 2000, Third Quarter 2000 report. This workplan along with the May 31, 2001 conditions were discussed during a meeting at Alameda County Health that involved Mr. Thompson, Desert Petroleum, Mr. Seery, Alameda County Health and Mr. Converse, Western Geo-Engineers, on November 13, 2001. The meeting concluded that nutrient augmentation was not necessary at this time, but enhanced dissolved oxygen was needed. Due to neighborhood concerns, i.e. residential homes and apartments, air sparging and/or using a mechanical delivery device would create too much noise and a more passive oxygen delivery system was warranted, i.e. hydrogen peroxide or Oxygen Release Compound (ORC). An amended workplan was presented in Appendix G of the 4th Quarater 2001 report, dated January 7, 2002 and suggested that ORC would be the most beneficial means of enhancing dissolved oxygen in the groundwater plume. Western Geo-Engineers then requested Regenisis Inc. to perform a basic model using ORC to determine how to apply, and the amount needed. The Regenisis model indicated that a one-time application (would last approximately one year) of approximately 9,690 pounds of ORC would be needed, at a cost of $77,520.00 for materials, which does not include installation costs. Upon receipt of the Regenisis model, WEGE projected how much hydrogen peroxide would be necessary to increase the dissolved oxygen in the plume from 2 mg/L to 8 mg/L. This simple model indicated that 18 gallons of 35% solution hydrogen peroxide would be necessary per application, at a cost of $1,160.00 per monthly application or $13,920.00 for one year.

Further communications from Mr. Scott Seery with Mr. Converse occurred during the week of February 25 - March 1, 2002. Mr. Seery suggested another meeting to discuss remediation options prior to approving the amended workplan presented with the January 7, 2002 report. In a phone conversation between Mr. Converse and Mr. Seery on August 12, 2002, Mr. Seery requested that the peroxide treatment not be performed until further review of the site by Alameda County Health.

On January 15, 2003 the station property was resold by Mr. Toni Razzi to Mr. Kin Man Li (P.O. Box 348, Oakland, CA 94604). The new owner demolished the existing service station building. Western Geo-Engineers feels this in an opportune time to perform an updated assessment of the on-site soils and groundwater associated with the hydrocarbon plume at 4035 Park Blvd. With the station building gone, the areas of suspected hydrocarbon contamination (beneath the building) can be sampled and verified allowing an updated risk assessment concerning the station proper for site closure, or if necessary, to revise remediation plans(s) to expedite the clean-up of this site. A workplan outlining further assessment/risk, dated May 1, 2003, is waiting review by Alameda County Health at this time. On July 31, 2003 "Notice to Initiate Workplan" was submitted to Alameda County Health after the 60 day/response period had expired. On August 6, 2003 Alameda County Health, Scott Seery, phoned Western Geo-Engineers, notifying them not to proceed with the workplan.

Mr. Scott Seery e-mailed Western Geo-Engineers on October 24, 2003 requesting a revision to the May 1, 2003 workplan. In his e-mail, Mr. Seery presented 6 bullet items that needed clarification prior to performing work to assess the on-site conditions. This revision dated October 28, 2003 is still under review by Mr. Scott Seery at this time, see Appendix F.

10.0 RECOMMENDATIONS

With a new property owner and the demolition of the existing building at 4035 Park Blvd., the following recommendations are made by Western Geo-Engineers.

- Implement the October 28, 2003 revision to the May 1, 2003 workplan to further assess the soils and groundwater that currently underlay the former building location at 4035 Park Blvd.
- Soil and groundwater samples obtained from the work outlined in the workplan would be used to update the RBCA Tier II model that has been developed for this site.
- Based on the results of the RBCA Tier II model, develop a cost benefit remediation plan for 4035 Park Blvd.
- Decide which wells located at 4035 Park Blvd., are necessary for the assessment and remediation objectives and destroy the unnecessary wells as per Alameda County Health guidelines.

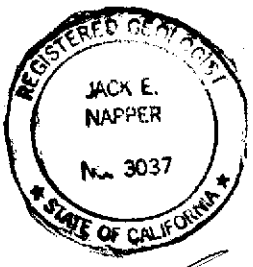
11.0 LIMITATIONS

This report 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. Western Geo-Engineers is a corporation under California Registered Geologist #3037 and/or Contractors License #513857. 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
Geologist

Jack E. Napper
Ca. Reg. Geologist #3037

cc: Mr. Scott O. Seery, Alameda County Health (510) 567-6783
Mr. Leroy Griffin, Oakland Fire Dept.
Mr. Kin Man Li, property owner (510) 599-7000

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #°93
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-1	12/14/89	228.15	24.25	203.9	19000	2600	2700	200	1200		
RS-1	12/90				15000	3500	330	170	760		
RS-1	2/91				6900	910	200	39	540		
RS-1	6/91				1600	56	180	12	26		
RS-1	9/91				4100	730	7.6	5.1	24		
RS-1	12/91				8300	950	160	71	190		
RS-1	11/9/92	228.15	17.05	211.1	1700	730	9.6	16	14		
RS-1	4/7/94	228.15	13	215.15	860	84	12	16	110		
RS-1	6/19/94	228.15	13.37	214.78	1400	150	12	52	87		
RS-1	9/17/94	228.15	16.33	211.82	310	30	1.8	2.8	3.9		
RS-1	3/12/95	228.15	4.66	223.49	ND	ND	ND	ND	ND		
		DESTROYED BY OVER-EXCAVATION OF UST-DISPENSER AREAS (8/14/95									
		REPLACED WITH MW-1 9/5/95.									
MW-1	10/4/95	229.5	12.38	217.12	ND	ND	ND	ND	ND		
MW-1	12/21/95	229.5	13.40	216.1	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
MW-1	03/27/96	229.5	5.53	223.97	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
MW-1	06/11/96	229.5	9.02	220.48	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
MW-1	09/04/96	229.5	11.84	217.66	< 50	< 0.5	< 0.5	< 0.5	< 2	< 5	
MW-1	12/11/96	229.5	12.98	216.52	< 50	< 0.5	0.9	< 0.5	< 1	< 0.5	
MW-1	2/21/97	229.5	9.50	220	< 50	< 0.5	0.9	< 0.5	< 1	< 0.5	*
MW-1	5/28/97	229.5	11.18	218.32	< 50	3	3	< 0.5	< 1	< 0.5	*
MW-1	9/2/97	229.5	13.00	216.5	< 50	5	< 0.5	< 0.5	< 1	< 0.5	*
MW-1	11/24/97	229.5	14.12	215.38	< 50	5	< 0.5	< 0.5	< 1	< 0.5	*
MW-1	2/25/98	229.5	6.41	223.09	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
MW-1	7/8/98	229.5	7.28	222.22	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
MW-1	9/16/98	229.5	10.96	218.54	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
MW-1	11/24/98	229.5	12.24	217.26	52	2.3	5.2	< 0.5	5.4	11	*
MW-1	2/23/99	229.5	7.14	222.36	< 50	< 0.5	5	< 0.5	< 1	< 0.5	
MW-1	5/5/99	229.5	7.00	222.5	< 50	2	<0.5	< 0.5	< 1	8	
MW-1***	8/26/99	229.5	11.41	218.09	<50	4.1	<0.5	< 0.5	< 1	<1	
MW-1	11/10/99	229.5	13.27	216.23	<50	<0.5	<0.5	< 0.5	< 1	<0.5	
MW-1	2/9/00	229.5	13.76	215.74	<50	<0.5	<0.5	0.5	< 1	0.5	
MW-1	6/30/00	229.5	10.63	218.87	<50	<0.5	<0.5	< 0.5	< 1	< 0.5	
MW-1	8/8/00	229.5	11.77	217.73	62	1	2	< 0.5	2	< 0.5	
MW-1	11/16/00	229.5	13.33	216.17	<50	<0.5	<0.5	< 0.5	< 1	< 0.5	
MW-1	3/8/01	229.5	12.30	217.2	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	5/31/01	229.5	11.88	217.62	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	12/18/01	229.5	13.74	215.76	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	2/19/02	229.5	14.42	215.08	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	5/7/02	229.5	10.78	218.72	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	8/6/02	229.5	12.70	216.8	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	11/5/02	229.5	15.00	214.5	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	12/12/02	229.5	15.46	214.04							
MW-1	3/13/03	229.5	14.51	214.99	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	5/6/03	229.5	11.06	218.44	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	8/13/03	229.5	13.13	216.37	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****
MW-1	11/20/03	229.5	14.85	214.65	<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-2	12/14/89	227.39									
RS-2	6/19/94	227.39	10.89	216.50							
RS-2	3/12/95	227.39	5.26	222.13	ND	ND	ND	ND	ND		
RS-2	10/4/95	227.39	15.05	212.34	ND	ND	ND	ND	ND		
RS-2	12/21/95	227.39	9.95	217.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
RS-2	03/27/96	227.39	6.28	221.11	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
RS-2	06/11/96	227.39	8.00	219.39	< 50	1.2	2.8	< 0.5	< 2	< 50	
RS-2	09/04/96	227.39	9.89	217.50	< 50	< 0.5	< 0.5	< 0.5	< 2	< 5	
RS-2	12/11/96	227.39	8.38	219.01	< 50	< 0.5	< 0.5	< 0.5	< 1	6	
RS-2	2/21/97	227.39	6.96	220.43	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	5/28/97	227.39	10.02	217.37	< 50	3	3	< 0.5	< 1	< 0.5	*
RS-2	9/2/97	227.39	11.46	215.93	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	11/24/97	227.39	10.43	216.96	< 50	< 0.5	1	< 0.5	3	< 0.5	*
RS-2	2/25/98	227.39	3.57	223.82	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	7/8/98	227.39	8.83	218.56	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
RS-2	9/16/98	227.39	10.60	216.79	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
RS-2	11/24/98	227.39	13.27	214.12	140	2.8	19	2.6	3.3	15	*
RS-2	2/23/99	227.39	4.06	223.33	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	
RS-2	5/5/99	227.39	7.70	219.69	< 50	0.7	< 0.5	< 0.5	< 1	6	
RS-2***	8/26/99	227.39	11.42	215.97	200	15	23	1.7	23	9	*
RS-2	11/10/99	227.39	15.94	211.45	< 50	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	2/9/00	227.39	8.91	218.48	< 50	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	6/30/00	227.39	9.79	217.60	52	2	<0.5	<0.5	< 1	<0.5	
RS-2	8/8/00	227.39	10.71	216.68	60	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	11/16/00	227.39	10.39	217.00	< 50	<0.5	<0.5	<0.5	< 1	<0.5	
RS-2	3/8/01	227.39	6.62	220.77	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	5/31/01	227.39	10.09	217.30	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	12/18/01	227.39	6.99	220.40	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	2/19/02	227.39	8.08	219.31	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	5/7/02	227.39	9.27	218.12	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	8/6/02	227.39	11.38	216.01	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	11/5/02	227.39	17.09	210.30	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	12/12/02	227.39	13.19	214.20							
RS-2	3/13/03	227.39	8.93	218.46	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	5/6/03	227.39	8.05	219.34	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	8/13/03	227.39	11.16	216.23	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-2	11/20/03	227.39	17.62	209.77	< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL		TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)											
(CALIFORNIA PUBLIC HEALTH GOAL)							(1.5)	(150)	(300)	(1800)	(13)	
RS-5	12/14/89	227.61	25.97	201.64		57000	3100	4300	670	3400		
RS-5	2/91	227.61	FLOATING PRODUCT									
RS-5	6/91	227.61	FLOATING PRODUCT									
RS-5	9/91	227.61	FLOATING PRODUCT									
RS-5	12/91	227.61	FLOATING PRODUCT									
RS-5	11/9/92	227.61	20.73	206.88		50000	650	4800	1100	15000		
RS-5	4/7/94	227.61	18.16	209.45		27000	5000	8700	550	2800		
RS-5	6/19/94	227.61	18.11	209.5		20000	2100	5300	470	2500		
RS-5	9/17/94	227.61	19.63	207.98		9300	230	340	110	700		
RS-5	3/12/95	227.61	14.54	213.07		93000	6400	2000	19000	10000		
RS-5	10/4/95	227.61	17.53	210.08		16000	420	2100	320	1800		
RS-5	12/21/95	227.61	17.47	210.14		48000	3500	9200	840	4800	56	
RS-5	03/27/96	227.61	13.51	214.1		68000	4900	18000	1700	11000	< 3000	
RS-5	06/11/96	227.61	14.25	213.36		66000	6300	20000	2100	12000	< 3000	
RS-5	09/04/96	227.61	16.50	211.11		31000	2100	11000	1100	6800	400	
RS-5	12/11/96	227.61	15.88	211.73		85000	7000	21000	1800	8900	570	
RS-5	2/21/97	227.61	13.76	213.85	sh	100000	5000	22000	1700	7300	<0.5	*
RS-5	5/28/97	227.61	15.77	211.84		52000	4500	19000	2100	10000	<0.5	*
RS-5	9/2/97	227.61	17.47	210.14		38000	2200	9400	1300	5800	<0.5	
RS-5	11/24/97	227.61	18.67	208.94		45000	4000	16000	1900	9700	<0.5	*
RS-5	2/25/98	227.61	10.53	217.08		160000	2700	31000	5300	28000	<0.5	*
RS-5	7/8/98	227.61	13.75	213.86		45000	2800	12000	2000	8500	<10	*
RS-5	9/16/98	227.61	15.80	211.81		49000	1400	7500	1700	8600	<5	*
RS-5	11/24/98	227.61	16.64	210.97		89000	5300	15000	2800	13000	<10	
RS-5	2/23/99	227.61	12.36	215.25		19000	1900	11000	2500	4800	<25	*
RS-5	5/5/99	227.61	12.78	214.83		78000	2000	10000	3000	15000	540	*
RS-5***	8/26/99	227.61	16.06	211.55		35000	870	4000	1900	8300	<1	*
RS-5	11/10/99	227.61	17.54	210.07		40000	1000	5600	1800	8100	<0.5	
RS-5	2/9/00	227.61	16.31	211.3		46000	1400	6900	2700	11000	<0.5	
RS-5	6/30/00	227.61	15.15	212.46		37000	810	5200	2200	9100	<2.5	*
RS-5	8/8/00	227.61	16.10	211.51		14000	330	500	1400	6500	<0.5	
RS-5	11/16/00	227.61	17.38	210.23		23000	430	2300	1100	4800	<0.5	*
RS-5	3/8/01	227.61	27.72	199.89		11000	360	260	140	1500	2.6	****
RS-5	5/31/01	227.61	22.96	204.65		7500	26	11	38	470	<5	****
RS-5	12/18/01	227.61	15.61	212		12000	610	1200	100	1500	<5	****
RS-5	2/19/02	227.61	14.80	212.81		22000	460	1700	680	4000	<5	****
RS-5	5/7/02	227.61	31.77	195.84		700	150	10	19	67	5.2	****
RS-5	8/6/02	227.61	31.77	195.84		< 50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-5	11/5/02	227.61	31.77	195.84		12000	150	360	21	890	<2	****
RS-5	12/12/02	227.61	21.53	206.08								
RS-5	3/13/03	227.61	36.70	190.91		240	5.5	1.9	2.3	9.6	1.4	****
RS-5	5/6/03	227.61	14.52	213.09								
RS-5	8/13/03	227.61	31.77	195.84		310	1.4	<0.5	1	2.9	<0.5	****
RS-5	11/20/03	227.61	32.00	195.61		17000	150	720	240	1800	0.72	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	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)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)											
RS-6	12/14/89	227.22	22.52	204.7	11000	1400	1700	160	860		
RS-6	2/91	227.22	FLOATING PRODUCT								
RS-6	6/91	227.22			95000	4200	4200	650	3700		
RS-6	9/91	227.22	FLOATING PRODUCT								
RS-6	12/91	227.22			64000	3700	2300	730	4100		
RS-6	11/9/92	227.22	19.43	207.79	19000	1600	710	500	1600		
RS-6	4/7/94	227.22	14.42	212.8	16000	1200	1300	290	1100		
RS-6	6/19/94	227.22	14.45	212.77	23000	1300	2200	590	2200		
RS-6	9/17/94	227.22	19.52	207.7	24000	630	790	250	1100		
RS-6	3/12/95	227.22	8.90	218.32	3200	450	13	82	230		
RS-6	10/4/95	227.22	17.78	209.44	3700	170	250	38	290		
RS-6	12/21/95	227.22	14.98	212.24	3100	120	30	16	150	58	
RS-6	03/27/96	227.22	10.00	217.22	6900	180	440	79	360	< 300	
RS-6	06/11/96	227.22	12.00	215.22	7400	220	150	30	100	<1000	
RS-6	09/04/96	227.22	15.00	212.22	1400	68	2.6	7.7	9.2	14	
RS-6	12/11/96	227.22	12.36	214.86	1800	39	16	10	18	< 0.5	
RS-6	2/21/97	227.22	10.00	217.22	2100	71	85	25	40	< 0.5	*
RS-6	5/28/97	227.22	13.56	213.66	1700	34	12	11	16	< 0.5	*
RS-6	9/2/97	227.22	16.35	210.87	940	34	71	9	55	< 0.5	*
RS-6	11/24/97	227.22	15.72	211.5	490	9	6	1	7	< 0.5	*
RS-6	2/25/98	227.22	6.26	220.96	1400	22	47	5	52	< 0.5	*
RS-6**	7/8/98	227.22	11.41	215.81	1500	83	9	84	2	<10	*
RS-6	7/30/98	227.22			<50	<0.5	<0.5	<0.5	<1		
RS-6	9/16/98	227.22	13.42	213.8	990	23	<0.5	<0.5	<1	<1	*
RS-6	11/24/98	227.22	15.91	211.31	3400	5.3	<0.5	<0.5	14	<0.5	
RS-6	2/23/99	227.22	7.00	220.22	1000	3.4	3.2	1.6	7.3	<0.5	
RS-6	5/5/99	227.22	10.29	216.93	1100	50	10	80	15	2	
RS-6***	8/26/99	227.22	13.72	213.5	690	44	2.5	30	31	<5	
RS-6	11/10/99	227.22	13.90	213.32	1800	2	2	0.9	16	< 0.5	
RS-6	2/9/00	227.22	12.77	214.45	410	3	3	4	7	< 0.5	
RS-6	6/30/00	227.22	12.69	214.53	660	7	2	5	6	< 0.5	
RS-6	8/8/00	227.22	14.72	212.5	660	2	3	2	6	< 0.5	
RS-6	11/16/00	227.22	15.28	211.94	560	1	2	1	5	< 0.5	
RS-6	3/8/01	227.22	10.10	217.12	2200	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	5/31/01	227.22	12.96	214.26	630	<0.5	<0.5	<0.5	<0.5	<5	****
RS-6	12/18/01	227.22	10.88	216.34	56	0.53	<0.5	<0.5	0.56	<0.5	****
RS-6	2/19/02	227.22	11.08	216.14	<50	<0.5	<0.5	0.6	<0.5	<0.5	****
RS-6	5/7/02	227.22	12.31	214.91	240	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	8/6/02	227.22	14.23	212.99	130	<0.5	<0.5	<0.5	<0.5	3	****
RS-6	11/5/02	227.22	17.99	209.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	12/12/02	227.22	17.57	209.65							
RS-6	3/13/03	227.22	11.82	215.4	120	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	5/6/03	227.22	10.10	217.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	8/13/03	227.22	13.88	213.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-6	11/20/03	227.22	18.62	208.6	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-7	12/14/89	195.99									
RS-7	7/90	195.99			5600000	24000	210000	50000	740000		
RS-7	2/91	195.99	FLOATING PRODUCT								
RS-7	6/91	195.99	FLOATING PRODUCT								
RS-7	9/91	195.99	FLOATING PRODUCT								
RS-7	12/91	195.99			270000	11000	22000	2000	13000		
RS-7	11/9/92	195.99	4.62	191.37	81000	12000	16000	1900	13000		
RS-7	4/7/94	195.99	4.03	191.96	74000	16000	16000	1400	8500		
RS-7	6/19/94	195.99	4.07	191.92	83000	22000	19000	1500	9500		
RS-7	9/17/94	195.99	4.05	191.94	270000	13000	15000	2100	1100		
RS-7	3/12/95	195.99	3.72	192.27	35000	5100	560	6300	3600		
RS-7	10/4/95	195.99	4.03	191.96	96000	14000	14000	1300	7000		
RS-7	12/21/95	195.99	3.95	192.04	70000	9300	12000	860	5600	210	
RS-7	03/27/96	195.99	3.80	192.19	64000	8900	14000	1100	8300	< 3000	
RS-7	06/11/96	195.99	3.79	192.2	65000	12000	17000	1600	9700	<5000	
RS-7	09/04/96	195.99	3.99	192	20000	4900	2100	670	4400	100	
RS-7	12/11/96	195.99	3.78	192.21	17000	4400	7500	570	4600	180	
RS-7	2/21/97	195.99	3.82	192.17	93000	31000	47000	3800	23000	<0.5	*
RS-7	5/28/97	195.99	3.82	192.17	52000	12000	8200	2000	11000	<0.5	*
RS-7	9/2/97	195.99	3.96	192.03	28000	6100	2800	950	3800	<50	
RS-7	11/24/97	195.99	3.76	192.23	18000	4300	5900	600	2900	<0.5	*
RS-7	2/25/98	195.99	3.70	192.29	13000	4300	7100	1100	5800	<0.5	*
RS-7**	7/8/98	195.99	3.76	192.23	45000	10000	3400	2000	8000	<10	*
RS-7	7/30/98	195.99			72000	12000	2100	2000	9100		
RS-7	9/16/98	195.99	3.83	192.16	5000	6500	160	<2.5	500	<5	*
RS-7	11/24/98	195.99	3.77	192.22	19000	2100	1100	500	2100	<0.5	
RS-7	2/23/99	195.99	3.70	192.29	83000	6500	9900	1200	7000	<10	
RS-7	5/5/99	195.99	3.88	192.11	47000	7400	4800	1300	7400	540	
RS-7***	8/26/99	195.99	4.16	191.83	15000	3400	91	950	970	<5	
RS-7	11/10/99	195.99	4.12	191.87	10000	2900	170	630	1200	<0.5	
RS-7	2/9/00	195.99	3.98	192.01	9400	1400	120	480	600	<0.5	
RS-7	6/30/00	195.99	4.04	191.95	8200	3300	190	430	540	<0.5	
RS-7	8/8/00	195.99	4.06	191.93	11000	2300	150	430	520	<0.5	
RS-7	11/16/00	195.99	4.04	191.95	5400	1500	40	240	200	<0.5	
RS-7	3/8/01	195.99	3.94	192.05	12000	3300	260	480	850	17	****
RS-7	5/31/01	195.99	4.01	191.98	10000	1900	120	320	620	<100	****
RS-7	12/18/01	195.99	4.81	191.18	2700	450	21	86	120	2.3	****
RS-7	2/19/02	195.99	3.91	192.08	20000	2600	360	570	1900	11	****
RS-7	5/7/02	195.99	3.97	192.02	9200	1400	120	360	780	6.6	****
RS-7	8/6/02	195.99	4.06	191.93	8300	1300	71	250	480	<10	****
RS-7	11/5/02	195.99	4.11	191.88	9300	1500	90	330	680	<10	****
RS-7	12/12/02	195.99	4.13	191.86							
RS-7	3/13/03	195.99	4.02	191.97	5500	990	51	180	330	6.1	****
RS-7	5/6/03	195.99	3.98	192.01	4800	740	36	160	310	4.7	****
RS-7	8/13/03	195.99	4.09	191.9	9400	1300	65	310	620	6.1	****
RS-7	11/20/03	195.99	4.10	191.89	4800	700	13	110	110	<5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-8	12/14/89										
RS-8	09/04/96										
RS-8	12/11/96										
RS-8	2/21/97										
RS-8	5/28/97										
RS-8	9/2/97										
RS-8	11/24/97										
RS-8	2/25/98										
RS-8	7/8/98										
RS-8	9/16/98										
RS-8	11/24/98										
RS-8	2/23/99										
RS-8	5/5/99										
RS-8***	8/26/99	214.67	7.25	207.42	160000	24000	35000	4200	24000	<5	
RS-8	11/10/99	214.67	8.69	205.98	150000	21000	29000	3000	14000	<0.5	
RS-8	2/9/00	214.67	7.23	207.44	14000	1900	3200	270	2300	<0.5	
RS-8	6/30/00	214.67	3.99	210.68	6400	570	870	150	770	<0.5	
RS-8	8/8/00	214.67	7.52	207.15	100000	24000	40000	2300	9900	<0.5	*
RS-8	11/16/00	214.67	6.14	208.53	110000	14000	21000	2100	9600	<20	*
RS-8	3/8/01	214.67	9.40	205.27	10000	740	840	220	990	<2	****
RS-8	5/31/01	214.67	6.83	207.84	730	11	29	4.2	31	<5	****
RS-8	12/18/01	214.67	7.14	207.53	4500	230	370	77	750	<0.5	****
RS-8	2/19/02	214.67	7.69	206.98	780	33	21	5.1	45	<0.5	****
RS-8	5/7/02	214.67	7.82	206.85	24000	1500	1800	830	2700	<10	****
RS-8	8/6/02	214.67	13.46	201.21		0.04	feet floating product				
RS-8	11/5/02	214.67	13.96	200.71		0.40	feet floating product				
RS-8	12/12/02	214.67	14.38	200.29		0.08	feet floating product				
RS-8	3/13/03	214.67	10.99	203.68	90000	1100	14000	2500	12000	<50	****
RS-8	5/6/03	214.67	5.35	209.32	1600	6.7	46	21	170	<0.5	****
RS-8	8/13/03	214.67	11.96	202.71	100000	1200	10000	2500	13000	<50	****
RS-8	11/21/03	214.67	12.30	202.37	100000	1700	10000	1700	12000	<25	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)											
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-9	12/14/89										
RS-9***	09/04/96										
RS-9***	12/11/96										
RS-9***	2/21/97										
RS-9***	5/28/97										
RS-9***	9/2/97										
RS-9***	11/24/97										
RS-9***	2/25/98										
RS-9***	7/8/98										
RS-9***	9/16/98										
RS-9***	11/24/98										
RS-9***	2/23/99										
RS-9***	5/5/99										
RS-9***	8/26/99	195.63	7.46	188.17	17000	3500	1200	360	1600	180	*
RS-9	11/10/99	195.63	7.91	187.72	2800	520	62	46	130	<0.5	
RS-9	2/9/00	195.63	6.09	189.54	3400	650	74	64	130	<0.5	
RS-9	6/30/00	195.63	6.77	188.86	3000	600	79	74	120	<0.5	
RS-9	8/8/00	195.63	7.32	188.31	4900	500	430	160	530	<0.5	
RS-9	11/16/00	195.63	6.33	189.3	3000	350	220	90	220	<0.5	
RS-9	3/8/01	195.63	4.93	190.7	<50	3.4	<0.5	<0.5	<0.5	<0.5	****
RS-9	5/31/01	195.63	4.01	191.62	510	96	6	6.2	9.1	5.5	****
RS-9	12/18/01	195.63	4.81	190.82	210	11	1.8	3.9	7.6	<0.5	****
RS-9	2/19/02	195.63	4.99	190.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-9	5/7/02	195.63	6.08	189.55	130	7.9	<0.5	1.2	<0.5	0.67	****
RS-9	8/6/02	195.63	6.93	188.7	380	29	1.2	2.3	2.9	3.1	****
RS-9	11/5/02	195.63	7.53	188.1	1800	240	9	27	110	8.6	****
RS-9	12/12/02	195.63	7.23	188.4							
RS-9	3/13/03	195.63	5.73	189.9	410	30	3	6	9.5	3.3	****
RS-9	5/6/03	195.63	4.83	190.8	910	72	15	9.2	26	5.5	****
RS-9	8/13/03	195.63	8.24	187.39	810	20	<0.5	2.4	1.6	3.6	****
RS-9	11/20/03	195.63	6.99	188.64	3600	920	5.3	6.1	20	30	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
RS-10	12/14/89										
RS-10***	09/04/96										
RS-10***	12/11/96										
RS-10***	2/21/97										
RS-10***	5/28/97										
RS-10***	9/2/97										
RS-10***	11/24/97										
RS-10***	2/25/98										
RS-10***	7/8/98										
RS-10***	9/16/98										
RS-10***	11/24/98										
RS-10***	2/23/99										
RS-10***	5/5/99										
RS-10***	8/26/99	208.46	3.76	204.7	5100	160	340	190	1000	32	*
RS-10	11/10/99	208.46	3.83	204.63	500	7	2	2	4	<0.5	
RS-10	2/9/00	208.46	0.31	208.15	100	4	3	1	6	<0.5	
RS-10	6/30/00	208.46	2.22	206.24	640	5	2	4	2	<0.5	
RS-10	8/8/00	208.46	2.46	206	460	2	2	2	7	<0.5	
RS-10	11/16/00	208.46	2.46	206	360	1	1	2	<1	<0.5	
RS-10	3/8/01	208.46	2.82	205.64	53	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/31/01	208.46	4.93	203.53	210	<0.5	<0.5	1.5	5	<5	****
RS-10	12/18/01	208.46	2.10	206.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	2/19/02	208.46	2.29	206.17	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/7/02	208.46	2.92	205.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	8/6/02	208.46	4.11	204.35	<50	<0.5	0.7	<0.5	1.6	<0.5	****
RS-10	11/5/02	208.46	4.05	204.41	54	<0.5	1.2	<0.5	1.1	<0.5	****
RS-10	12/12/02	208.46	6.81	201.65							
RS-10	3/13/03	208.46	3.00	205.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	5/6/03	208.46	2.55	205.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	8/13/03	208.46	3.68	204.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-10	11/20/03	208.46	4.45	204.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
R1	12/14/89										
R1	09/04/96	227.69	15.00	212.69	1800	1100	3	29	< 10	< 30	
R1	12/11/96	227.69	10.30	217.39	<50	<0.5	< 0.5	< 0.5	< 1	4	
R1	2/21/97	227.69	11.88	215.81	2500	670	9	3	13	<0.5	*
R1	5/28/97	227.69	14.03	213.66	24000	4300	36	2000	370	<0.5	*
R1	9/2/97	227.69	14.98	212.71	4400	320	6	340	72	20	
R1	11/24/97	227.69	14.06	213.63	100	39	1	18	10	<0.5	
R1	2/25/98	227.69	8.93	218.76	1200	400	8	13	150	<0.5	
R1	7/8/98	227.69	11.36	216.33	68	14	< 0.5	< 0.5	< 1	<1	*
R1	9/16/98	227.69	13.30	214.39	16000	3400	92	< 0.5	410	<1	*
R1	11/24/98	227.69	10.72	216.97	340	19	1.6	35	9.7	<0.5	
R1	2/23/99	227.69	9.34	218.35	60	16	0.6	5.6	1.2	<0.5	
R1	5/5/99	227.69	11.30	216.39	1300	290	3	150	1	15	
R1	8/26/99	227.69	13.97	213.72	6500	630	<0.5	1300	<1	<1	
R1	11/10/99	227.69	13.73	213.96	480	12	4	22	9	<0.5	
R1	2/9/00	227.69	13.10	214.59	<50	8	<0.5	1	<1	<0.5	
R1	6/30/00	227.69	13.42	214.27	2600	350	35	1900	220	<0.5	
R1	8/8/00	227.69	14.25	213.44	10000	910	76	2100	390	<0.5	
R1	3/8/01	227.69	13.72	213.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**
R1	3/8/01	227.69	13.72	213.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	5/31/01	227.69	15.77	211.92	3800	400	16	470	67	<5	****
R1	12/18/01	227.69	9.90	217.79	<50	<0.5	<0.5	1.5	<0.5	<0.5	****
R1	2/19/02	227.69	10.86	216.83	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	5/7/02	227.69	16.17	211.52	53	3.3	<0.5	1	<0.5	<0.5	****
R1	8/6/02	227.69	16.83	210.86	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	11/5/02	227.69	16.92	210.77	dry, groundwater deeper than 210.77 foot elevation						
R1	12/12/02	227.69	16.94	210.75							
R1	3/13/03	227.69	15.69	212	<50	4.5	<0.5	<0.5	<0.5	<0.5	****
R1	5/6/03	227.69	10.75	216.94	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R1	8/13/03	227.69	16.04	211.65	430	17	<0.5	1.4	1.1	<0.5	****
R1	11/20/03	227.69	dry								

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
R2	12/14/89										
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	16	
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	9/2/97	230.68	14.16	216.52	30000	12000	330	1000	790	47	
R2	11/24/97	230.68	14.71	215.97	41000	15000	830	1500	4200	<0.5	*
R2	2/25/98	230.68	7.39	223.29	800	400	<0.5	<0.5	15	<0.5	*
R2	7/8/98	230.68	11.27	219.41	290	31	< 0.5	1	< 1	2	*
R2	9/16/98	230.68	13.73	216.95	6600	11000	24	<0.5	35	<1	*
R2	11/24/98	230.68	11.67	219.01	6100	<0.5	36	<0.5	21	<0.5	
R2	2/23/99	230.68	7.55	223.13	1100	310	3	2	26	<0.5	
R2	5/5/99	230.68	10.89	219.79	11000	5300	7	36	7	8	
R2	8/26/99	227.28	13.14	214.14	6700	940	33	190	240	<1	*
R2	11/10/99	227.28	14.42	212.86	5100	2600	160	1800	8100	<0.5	*
R2	2/9/00	227.28	12.45	214.83	4700	1400	110	130	340	<0.5	
R2	6/30/00	227.28	12.94	214.34	7100	3200	110	300	480	<0.5	
R2	8/8/00	227.28	13.58	213.7	30000	13000	250	1000	2700	<0.5	
R2	11/16/00	227.28	14.33	212.95	44000	17000	230	790	3600	<0.5	
R2	3/8/01	227.28	11.15	216.13	2300	640	8.6	61	170	<2	****
R2	5/31/01	227.28	13.38	213.9	2200	580	12	72	100	<25	****
R2	12/18/01	227.28	12.35	214.93	4900	2000	120	44	280	<5	****
R2	2/19/02	227.28	11.32	215.96	2100	1200	<5	14	<5	<5	****
R2	5/7/02	227.28	13.15	214.13	2500	660	7.5	170	26	<2.5	****
R2	8/6/02	227.28	14.51	212.77	6300	1800	150	220	340	<5	****
R2	11/5/02	227.28	15.46	211.82	11000	3000	140	57	620	<20	****
R2	12/12/02	227.28	15.70	211.58							
R2	3/13/03	227.28	12.96	214.32	580	200	1.2	5.4	3.8	<1	****
R2	5/6/03	227.28	11.14	216.14	70	25	<0.5	<0.5	1.3	<0.5	****
R2	8/13/03	227.28	14.01	213.27	1800	340	8	49	12	<2	****
R2	11/20/03	227.28	15.35	211.93	8000	1400	46	57	490	<5	****

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DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
R3	12/14/89										
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	9/2/97	230.32	10.86	219.46	<50	4	<0.5	<0.5	<1	<0.5	*
R3	11/24/97	230.32	11.20	219.12	not enough water to sample. No sample						
R3	2/25/98	230.32	3.42	226.9	<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	7/8/98	230.32	8.78	221.54	140	<0.5	<0.5	4	24	<1	*
R3	9/16/98	230.32	10.38	219.94	<50	<0.5	<0.5	<0.5	<1	<1	*
R3	11/24/98	230.32	11.12	219.2	not enough water to sample. No sample						
R3	2/23/99	230.32	3.95	226.37	<50	<0.5	<0.5	<0.5	<1	<0.5	*
R3	5/5/99	230.32	7.58	222.74	80	9	<0.5	<0.5	<1	6	
R3	8/26/99	227.25	10.76	216.49	<50	2	<0.5	<0.5	<1	1	*
R3	11/10/99	227.25	11.09	216.16	140	3	4	1	11	<0.5	
R3	2/9/00	227.25	8.76	218.49	<50	2	<0.5	<0.5	<1	<0.5	
R3	6/30/00	227.25	9.67	217.58	<50	0.7	<0.5	1	1	<0.5	
R3	8/8/00	227.25	10.44	216.81	72	<0.5	<0.5	<0.5	<1	<0.5	
R3	11/16/00	227.25	10.26	216.99	110	4	1	<0.5	3	<0.5	
R3	3/8/01	227.25	6.54	220.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/31/01	227.25	10.01	217.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/18/01	227.25	6.79	220.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	2/19/02	227.25	7.86	219.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/7/02	227.25	9.20	218.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	8/6/02	227.25	10.62	216.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	11/5/02	227.25	11.07	216.18	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	12/12/02	227.25	11.28	215.97							
R3	3/13/03	227.25	8.69	218.56	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	5/6/03	227.25	8.02	219.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
R3	8/13/03	227.25	dry		DRY						
R3	11/20/03	227.25	dry		DRY						

TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)											
(CALIFORNIA PUBLIC HEALTH GOAL)						(1.5)	(150)	(300)	(1800)	(13)	
T 1	12/14/89										
T 1	09/04/96										
T 1	12/11/96										
T 1	2/21/97										
T 1	5/28/97										
T 1	9/2/97										
T 1	11/24/97										
T 1	2/25/98										
T 1	7/8/98										
T 1	9/16/98										
T 1	11/24/98										
T 1	2/23/99										
T 1	5/5/99										
T 1***	8/26/99	195.11	2.44	192.67	40000	7200	5000	950	8100	53	*
T 1	11/10/99	195.11	2.23	192.88	46000	5600	3600	910	6500	<0.5	
T 1	2/9/00	195.11	2.22	192.89	35000	2900	5700	720	6600	<0.5	
T 1	6/30/00	195.11	2.22	192.89	30000	3400	3200	950	4600	<5	
T 1	8/8/00	195.11	2.73	192.38	8900	1600	760	260	870	<5	
T 1	11/16/00	195.11	2.72	192.39	4000	1300	92	80	290	<0.5	
T 1	3/8/01	195.11	2.12	192.99	25000	4400	3400	770	3200	26	****
T 1	5/31/01	195.11	2.30	192.81	8900	940	210	340	1500	<50	****
T 1	12/18/01	195.11	2.20	192.91	48000	3700	5500	1200	5300	24	****
T 1	2/19/02	195.11	1.96	193.15	64000	8600	6000	1700	6800	55	****
T 1	5/7/02	195.11	2.22	192.89	41000	9200	910	2000	6200	62	****
T 1	8/6/02	195.11	2.32	192.79	28000	5500	240	1300	2600	32	****
T 1	11/5/02	195.11	2.52	192.59	11000	3000	65	660	610	18	****
T 1	12/12/02	195.11	2.55	192.56							
T 1	3/13/03	195.11	2.23	192.88	930	150	17	23	60	2.6	****
T 1	5/6/03	195.11	2.37	192.74	6800	1000	230	310	820	10	****
T 1	8/13/03	195.11	2.41	192.7	9600	1500	110	440	910	10	****
T 1	11/20/03	195.11	2.50	192.61	10000	1800	120	520	510	11	****

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
**** SAMPLES ANALYZED USING EPA METHOD 8260B

TABLE 2
GROUNDWATER REMOVAL
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

DATE PURGED	METER READING IN GALLONS RS5	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring	ACCUMULATED GALLONS REMOVED FROM TRENCH &WELLS in GALLONS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA METHOD 8020 - 8260B TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	Sample Location
					0									
9/12/02	1364301.5	1364301.5		0	63127	207328.8	270455.7	12000	270	330	130	1100	2	RS5
10/30/02	1389884.7	1389884.7		0	63127	232912.0	296038.9							
11/5/02	1392931.0	1392931.0		0	63127	235958.3	299085.2	12000	150	360	21	890	<2	RS5
12/12/02	1408784.2	1410216.0		1432	64559	251811.5	316370.2							
1/9/03	1430304.1	1431653.1		1349	65908	271899.6	337807.3							
1/30/03	1447338.3	1448961.9	2.3	1624	67531	287584.8	355116.1							
2/19/03	1462658.4	1462658.4		0	67531	301281.3	368812.6							
3/13/03	1477211.2	1478624.6	2.23	1413	68945	315834.1	384778.8	240	5.5	1.9	2.3	9.6	1.4	RS5
3/26/03	1487952.3	1487952.3		0	68945	325161.8	394106.5							
4/3/03	1492921.1	1494226.5	2.27	1305	70250	330130.6	400380.7							
5/6/03	1509139.0	1510725.0	2.37	1586	71836	345043.1	416879.2	6800	1000	230	310	820	10	T1
5/21/03	1522165.2	1524709.6		2544	74381	356483.3	430863.8							
6/5/03	1536327.1	1536327.1		0	74381	368100.8	442481.3							
7/3/03	1558031.2	1558031.2		0	74381	389804.9	464185.4							
7/17/03	1567315.6	1568875.6	2.56	1560	75941	399089.3	475029.8							
8/13/03	1585901.5	1587475.1	2.41	1574	77514	416115.2	493629.3	310	1.4	<0.5	1	2.9	<0.5	RS5
9/4/03	1601163.7	1602640.5	2.67	1477	78991	429803.8	508794.7							
9/25/03	1614942.0	1614942.0		0	78991	442105.3	521096.2							
10/3/03	1619477.8	1620763.0	2.32	1285	80276	446641.1	526917.2							
10/8/03	1623572.9	1623572.9		0	80276	449451.0	529727.1							
10/14/03	1626700.0	1626700.0		0	80276	452578.1	532854.2							
10/16/03	1627622.0	1627622.0		0	80276	453500.1	533776.2							
10/24/03	1631506.9	1631506.9		0	80276	457385.0	537661.1							
10/30/03	1634530.0	1634530.0		0	80276	460408.1	540684.2							
11/6/03	1637906.5	1637906.5		0	80276	463784.6	544060.7							
11/13/03	1641361.3	1641361.3		0	80276	467239.4	547515.5							
11/20/03	1644688.6	1645991.4		1303	81579	470566.7	552145.6	17000	150	720	240	1800	0.72	RS5
11/30/03	1649967.5	1649967.5		0	81579	474542.8	556121.7							
12/3/03	1649967.4	1649967.4		0	81579	474542.7	556121.6							
12/11/03	1649977.6	1649977.6		0	81579	474552.9	556131.8							
12/18/03	1654385.3	1655688.6		1303	82882	478960.6	561842.8							
12/23/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
12/30/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							

ams per liter (parts per billion)
grams per liter (parts per million)
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
* SAMPLED ON AUGUST 26, 1999

T1 Receptor Trench Well
RS5 Monitor Well RS5 (pumping well)

Free Product Recovery
Desert Petroleum StationDP793
4035 Park Blvd., Oakland, California

TABLE 3

WELL #	DATE	DTW FEET	BAILED INCHES	BAILED GALLONS	WATER INCHES	WATER RECOVER	TOTAL GALLONS GASOLINE	TOTAL GALLONS WATER	ACCUMULATIVE GALLONS GASOLINE	ACCUMULATIVE GALLONS WATER
									0	0
RS 8	11/20/02	14.73	6.9	0.053	0.8	0.006				
			2.5	0.019	0.3	0.002				
			1.2	0.009	0	0.000				
			0.3	0.002	0	0.000	0.083	0.008	0.083	0.008
RS 8	11/27/02	nm	1.4	0.011	1.5	0.011				
			1.2	0.009	0.4	0.003				
			0.9	0.007	0	0.000				
			0	0.000	0	0.000	0.027	0.015	0.110	0.023
RS 8	12/5/02	14.76	1.3	0.010	0.6	0.005				
			1	0.008	0	0.000				
			0.3	0.002	0	0.000				
			0	0.000	0	0.000	0.020	0.005	0.130	0.028
RS 8	12/12/02	14.38	0.9	0.007	7.1	0.054				
			0.5	0.004	1.8	0.014				
			0.4	0.003	0.3	0.002				
			0	0.000	0	0.000	0.014	0.070	0.144	0.098

nm not measured
internal diameter of product bailer = 1.5 inches

TABLE 4
GROUNDWATER ELEVATIONS AND ELECTRON ACCEPTOR RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(All concentrations in parts per million [mg/L, ppm] unless otherwise noted)
(AMSL = Above mean sea level)

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DEPTH TO GROUND WATER (FEET)	FIELD MEASUREMENTS: GROUND WATER ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DISSOLVED OXYGEN O2 (MG/L)	FIELD MEASUREMENTS: SULFATE SO4 (MG/L)	FIELD MEASUREMENTS: NITRATE NO3 (MG/L)	FIELD MEASUREMENTS: FERROUS IRON FE2 (MG/L)	FIELD MEASUREMENTS: TEMPERATURE (F)	FIELD MEASUREMENTS: pH	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: TOTAL PETROLEUM HYDROCARBONS GASOLINE (MG/L)	CARBON DI OXIDE CO2 (MG/L)	METHANE CH4 (MG/L)	AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
MW-1	8/26/99	229.57	11.41	218.16	4.9	35	0	0.25	75.4	6.55	<0.05					
	9/2/99	229.57	11.65	217.92					72.9	8.16		0.13	<0.00001	10	<1	<0.5
	3/8/01	229.57	12.30	217.27	4.9				67.6	7.33	<0.05					
	12/18/01	229.57	13.74	215.83	4.4	61	7.6	0	67.1	7.63	<0.05					
RS-2	8/26/99	227.39	11.42	215.97	0.7	46	2.7	0.65	80.9	6.97	0.2					
	9/2/99	227.39	12.00	215.39								nm	nm	nm	nm	nm
	12/18/01	227.39	6.99	220.4	4.6	>77	11.4	0.07	67.6	7.75	<0.05					
RS-5	8/26/99	227.61	16.06	211.55	0.7	31	1.3	0.92	71.7	7.08	35					
	9/2/99	227.61	16.26	211.35					68.4	7.15		0.16	0.00021	3000	<1	<0.5
	3/8/01	227.61	27.72	199.89	3.1				59.7	7.46	11					
	12/18/01	227.61	15.61	212	1.4	37	8.2	>3.3	66.6	6.83	12					
RS-6	8/26/99	227.22	13.72	213.5	1.2	76	0.3	>3.3	77.8	6.66	0.69					
	9/2/99	227.22	14.14	213.08					69	6.69		0.36	<0.00001	400	<1	<0.5
	12/18/01	227.22	10.88	216.34	4.3	>77	0	0	66.7	6.84	0.056					
RS-7	8/26/99	195.99	4.16	191.83	0.3	>77	0.8	1.27	73.4	6.99	15					
	9/2/99	195.99	4.14	191.85								nm	nm	nm	nm	nm
	12/18/01	195.99	4.81	191.18	2.5	1	6	0.87	68.1	6.82	2.7					
RS-8	8/26/99	214.67	7.25	207.42	2.6	0	0	0.54	69.2	6.7	160					
	9/2/99	214.67	7.38	207.29					71.7	5.74		0.058	0.000018	6600	<1	<0.5
	3/8/01	214.67	9.40	205.27	2.2				63.3	6.97	10					
	12/18/01	214.67	7.14	207.53	4.2	49	9.2	0.08	67.3	6.98	0.23					
RS-9	8/26/99	195.63	7.46	188.17	2.1	7	0	0.59	73.5	6.95	17					
	9/2/99	195.63	7.61	188.02					70.9	6.98		0.25	0.0021	10000	<1	<0.5
	3/8/01	195.63	4.93	190.7	8.1				62.7	6.89	<0.05					
	12/18/01	195.63	4.81	190.82	WATER TO CLOUDY, LIGHT GREY				68.3	6.8	0.21					
RS-10	8/26/99	208.46	3.76	204.7	4.2	nm	nm	nm	70.9	8.03	5.1					
	9/2/99	208.46	3.96	204.5					73.3	7.24		0.1	0.000037	8800	<1	<0.5
	3/8/01	208.46	2.82	205.64	3.5				61.5	6.16	0.053					
	12/18/01	208.46	2.10	206.36	4.3	46	4.1	0	66.9	6.54	<0.05					
R1	8/26/99	227.69	13.97	213.72	0.4	9	0	>3.3	70.6	6.38	6.5					
	9/2/99	227.69	14.18	213.51								nm	nm	nm	nm	nm
	12/18/01	227.69	9.90	217.79	5.2	14	4.2	0	66.4	7.24	<0.05					
R2	8/26/99	227.28	13.14	214.14	0.4	>77	0.8	0.3	72.7	6.65	6.7					
	9/2/99	227.28	13.23	214.05								nm	nm	nm	nm	nm
	12/18/01	227.28	12.35	214.93	2.8	>77	1.3	0.07	66.5	6.69	4.9					

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TABLE 4
GROUNDWATER ELEVATIONS AND ELECTRON ACCEPTOR RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

(All concentrations in parts per million [mg/L, ppm] unless otherwise noted)
(AMSL - Above mean sea level)

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	DISSOLVED OXYGEN O2 (MG/L)	SULFATE SO4 (MG/L)	NITRATE NO3 (MG/L)	FERROUS IRON FE2 (MG/L)	TEMPERATURE (F)	pH	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: TOTAL PETROLEUM HYDROCARBONS GASOLINE (MG/L)	CARBON DI OXIDE CO2 (MG/L)	METHANE CH4 (MG/L)	AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
R3	8/26/99	230.32	10.76	219.56	2.5	>77	0.7	0.05	75	6.95	<0.05					
	9/2/99	230.32	10.87	219.45								nm	nm	nm	nm	nm
	12/18/01	230.32	6.79	223.53	5.5	>77	6.2	0	67.1	6.91	<0.05					
T 1	8/26/99	195.11	2.44	192.67	0.8	32	0.5	0.03	75.3	7.29	40					
	9/2/99	195.11	2.20	192.91					78.1	7.57		0.11	0.00019	1300	<1	<0.5
	3/8/01	195.11	2.18	192.93	3.1						25					
	12/18/01	195.11	2.20	192.91	2.8	0	4.3	0.6	66.3	6.52	48					
T 2	8/26/99	195.3	CAR		nm	nm	nm	nm	nm	nm	NA					
	9/2/99	195.3	CAR									nm	nm	nm	nm	nm
T 3	8/26/99	202.38	CAR		nm	nm	nm	nm	nm	nm	NA					
	9/2/99	202.38	CAR									nm	nm	nm	nm	nm
T 4	8/26/99	197.48	CAR		nm	nm	nm	nm	nm	nm	NA					
	9/2/99	197.48	CAR									nm	nm	nm	nm	nm
LF-1	8/26/99	226.59	CAR		nm	nm	nm	nm	nm	nm	NA					
	9/2/99	226.59	CAR						nm	nm		nm	nm	nm	nm	nm

NA NOT ANALYZED
nm NOT MEASURED
CAR CAR PARKED OVER WELL, NO ACCESS
MG/L milligrams per liter (ppm)
F degrees Fahrenheit
CFU/ML colony forming units per millilit
< below laboratory lower detection limits.
AMSL ABOVE MEAN SEA LEVEL

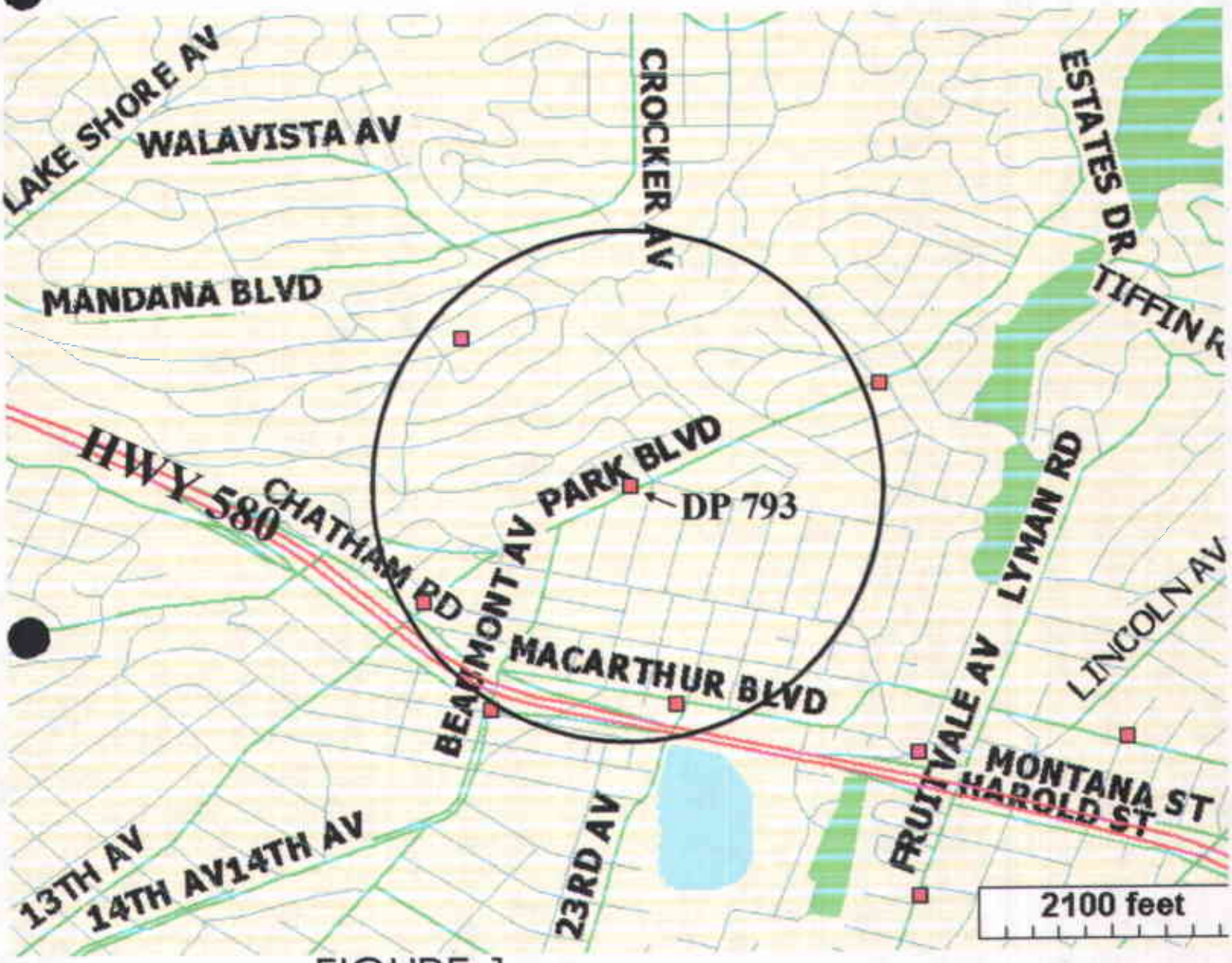


FIGURE 1
GEOTRACKER
AREA WELL & LUST MAP
DP 793
4035 PARK BLVD.
OAKLAND, CA

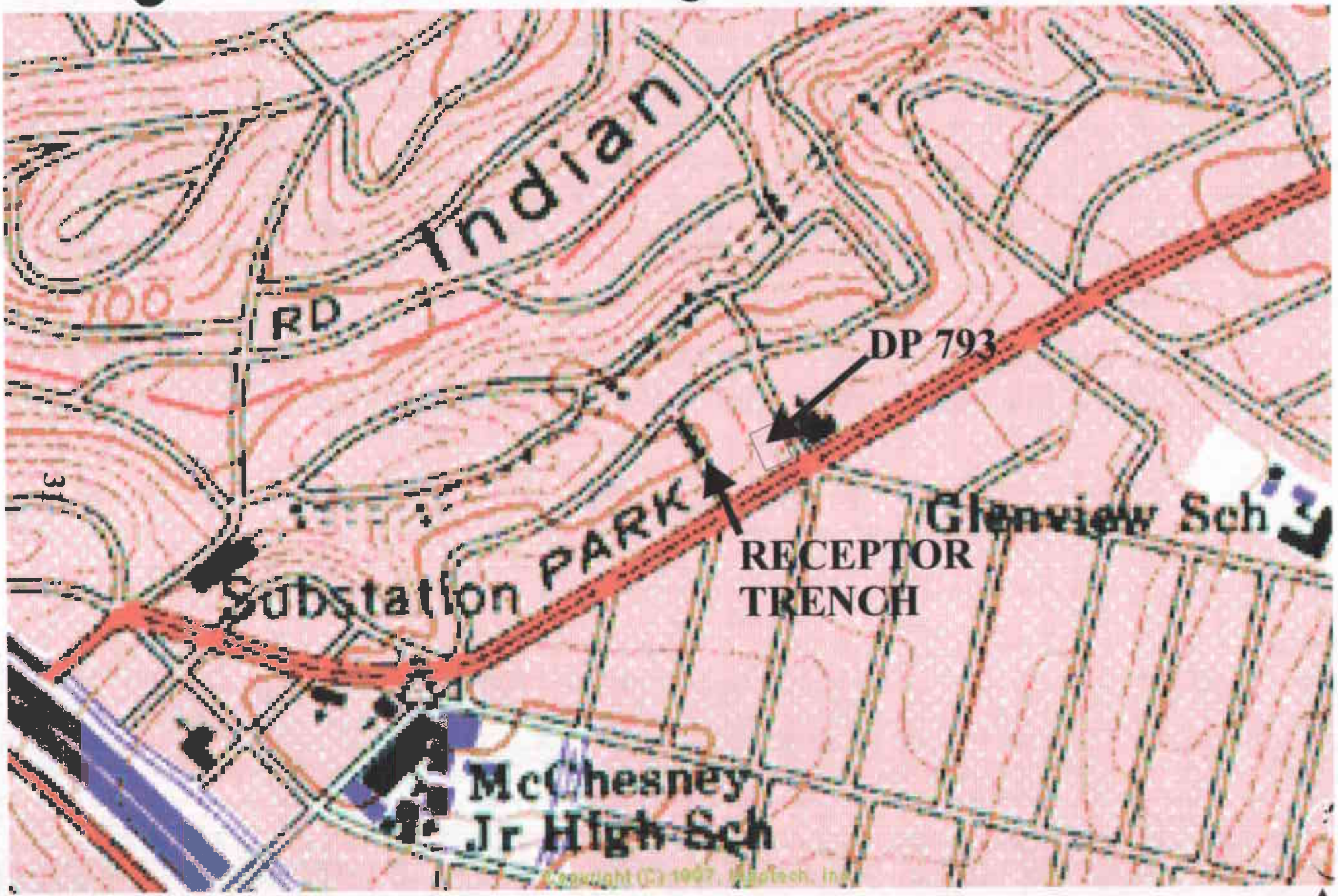
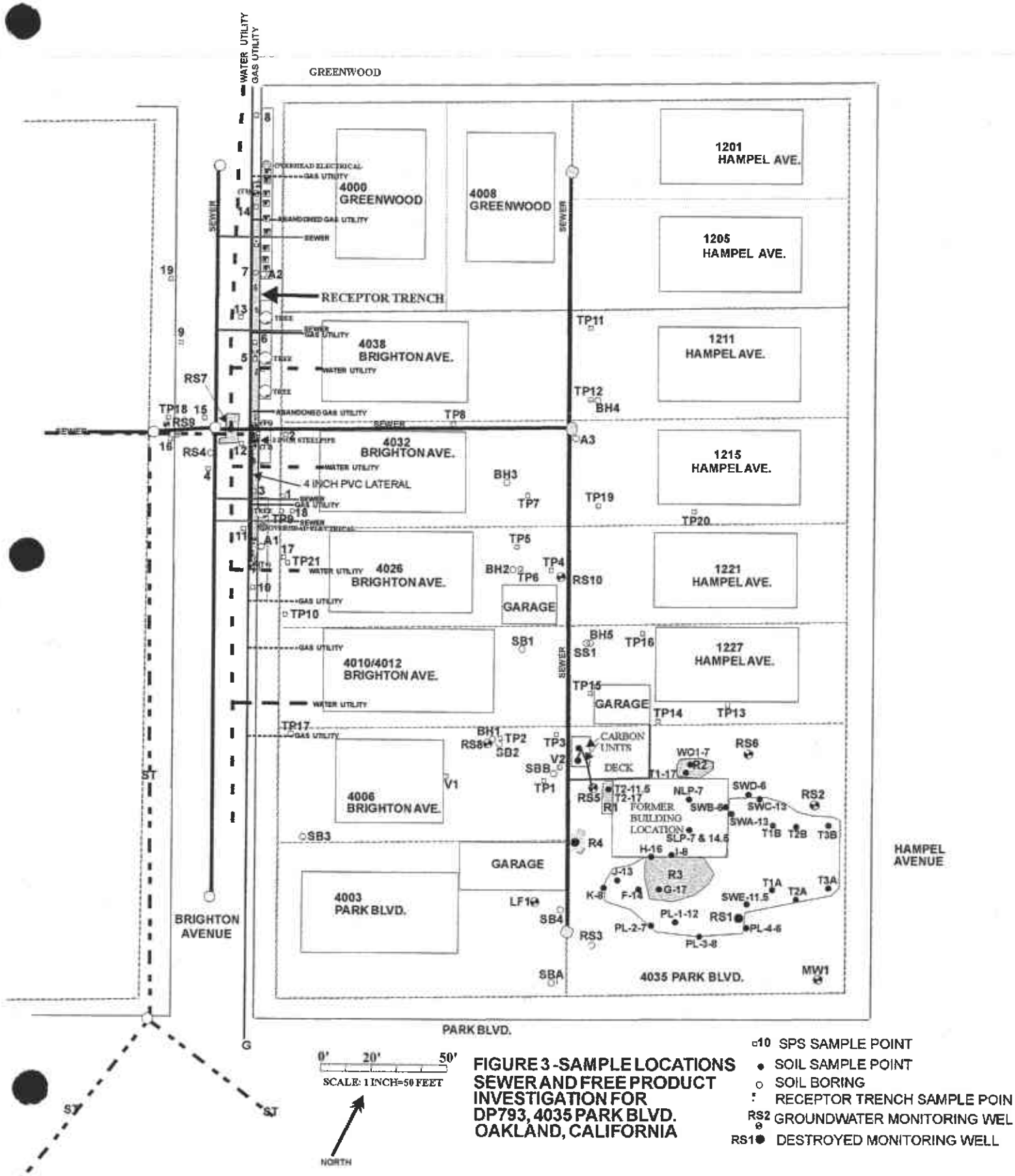


FIGURE 2
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP


GREENWOOD
WATER UTILITY
GAS UTILITY
4000 GREENWOOD
4008 GREENWOOD
1201 HAMPEL AVE.
1205 HAMPEL AVE.
1211 HAMPEL AVE.
1215 HAMPEL AVE.
1221 HAMPEL AVE.
1227 HAMPEL AVE.
4038 BRIGHTON AVE.
4032 BRIGHTON AVE.
4026 BRIGHTON AVE.
4010/4012 BRIGHTON AVE.
4006 BRIGHTON AVE.
4003 PARK BLVD.
4035 PARK BLVD.
RECEPTOR TRENCH
4 INCH PVC LATERAL
GARAGE
CARBON UNITS
DECK
FORMER BUILDING LOCATION
BRIGHTON AVENUE
HAMPEL AVENUE
PARK BLVD.
SCALE: 1 INCH=50 FEET
NORTH
FIGURE 3 -SAMPLE LOCATIONS SEWER AND FREE PRODUCT INVESTIGATION FOR DP793, 4035 PARK BLVD. OAKLAND, CALIFORNIA
SPS SAMPLE POINT
SOIL SAMPLE POINT
SOIL BORING
RECEPTOR TRENCH SAMPLE POIN
GROUNDWATER MONITORING WEL
DESTROYED MONITORING WELL

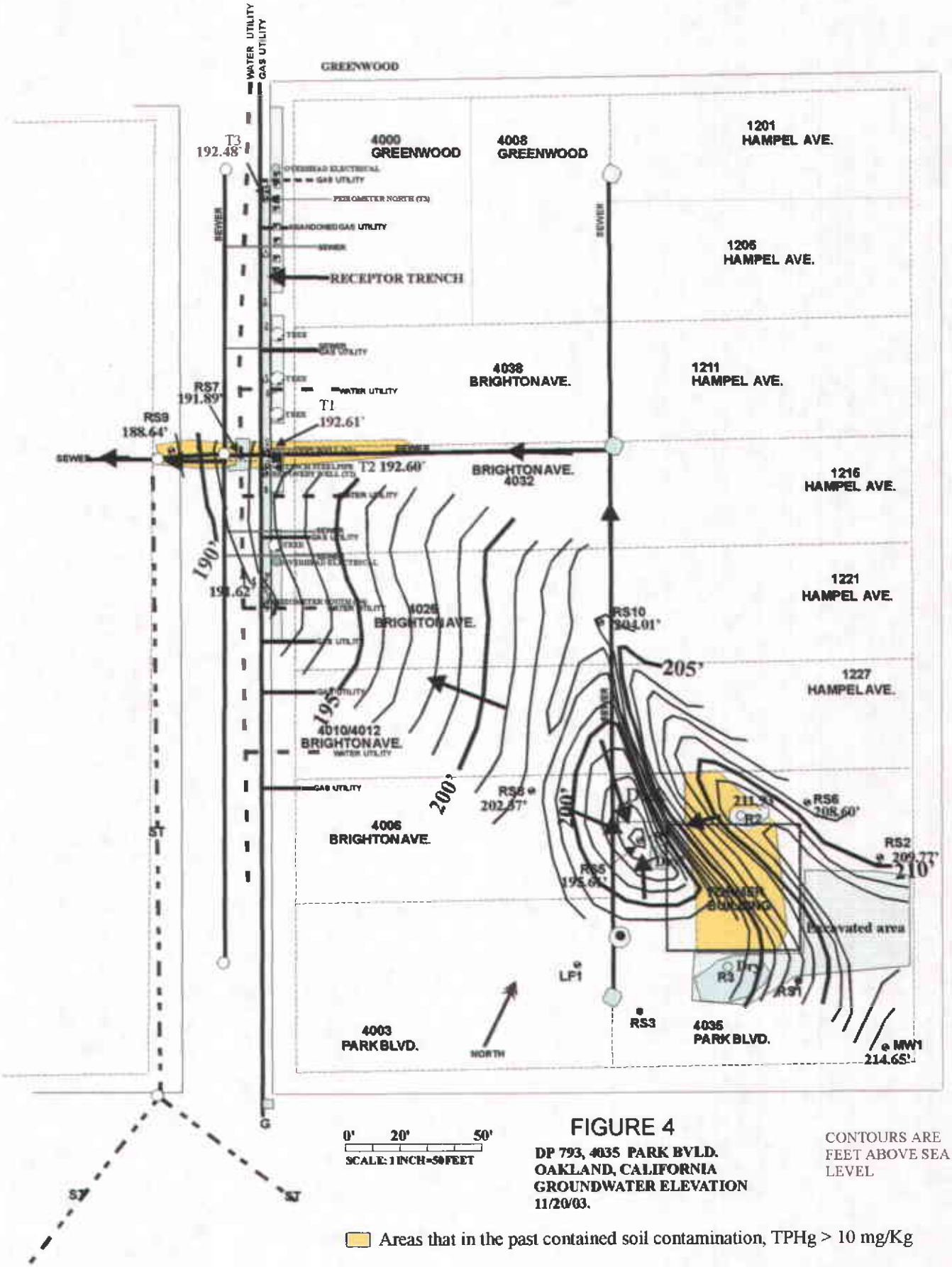


FIGURE 4

DP 793, 4035 PARK BVLD. OAKLAND, CALIFORNIA GROUNDWATER ELEVATION 11/20/03.

CONTOURS ARE FEET ABOVE SEA LEVEL

Areas that in the past contained soil contamination, TPHg > 10 mg/Kg

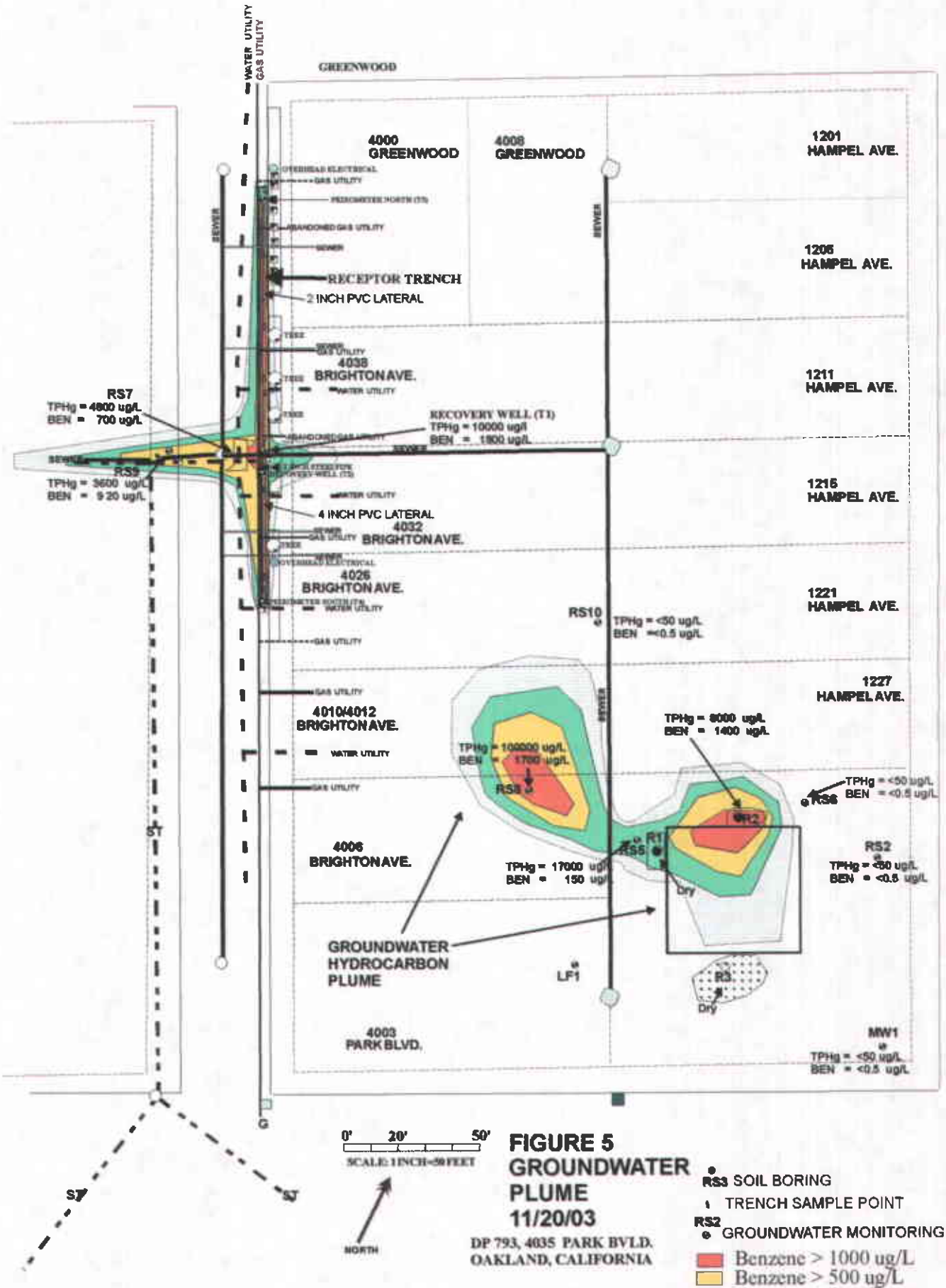


FIGURE 5
GROUNDWATER PLUME
11/20/03

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA

- RS3 SOIL BORING
- TRENCH SAMPLE POINT
- RS2 GROUNDWATER MONITORING WELL
- Benzene > 1000 ug/L
- Benzene > 500 ug/L
- Benzene > 1 ug/L
- TPHg Groundwater Plume

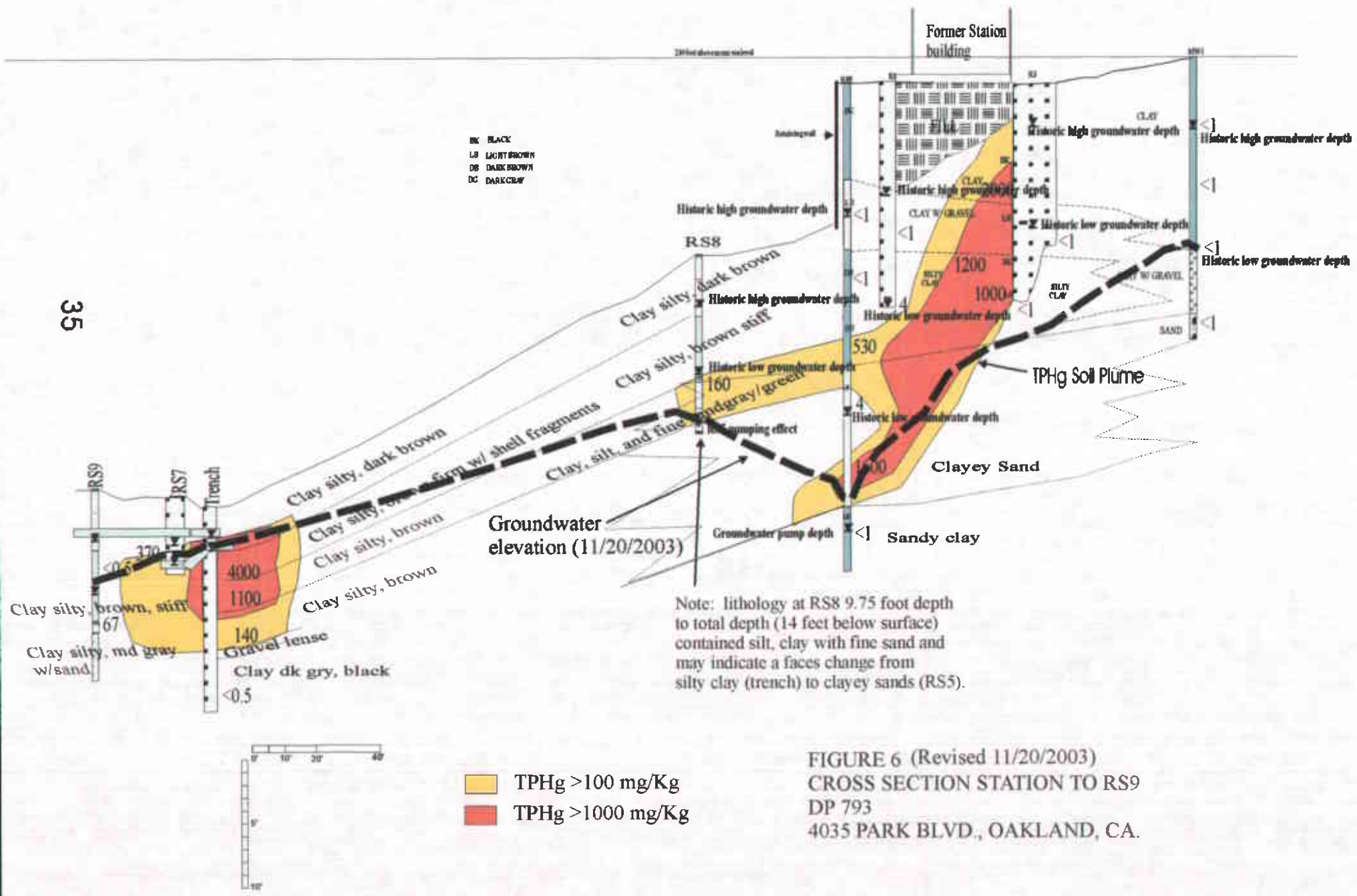


FIGURE 6 (Revised 11/20/2003)
CROSS SECTION STATION TO RS9
DP 793
4035 PARK BLVD., OAKLAND, CA.

APPENDIX A

METHODS AND PROCEDURES, QA/QC WITH FIELD NOTES

APPENDIX A.

METHODS AND PROCEDURES, QA/QC

This Appendix documents the specific methods, procedures, and materials used to collect and analyze ground water samples.

Gauging and Measuring Monitor Wells.

Prior to sampling a well, WEGE personnel obtain two measurements: the depth to ground water and the product thickness using a battery powered depth to water-product interface probe and or by using a specially designed bailer. The probe is lowered into the well casing until the instrument signals that the top of water has been reached. The distance from the top of water to the top of casing is read from the tape calibrated in 0.01 foot intervals for accuracy to 0.01 foot, that is attached to the probe. The measured distance is subtracted from the established elevation at the top of casing to determine the elevation of ground water with respect to mean sea level.

The probe is washed with TSP and rinsed in distilled water before each measurement. WEGE has designed and built bailers that will collect a sample of the contents of a well to show the exact thickness of any floating product.

Purging Standing Water from Monitor Wells

If no product is present, WEGE personnel purge the well. This is accomplished by removing ground water from the well until the water quality parameters (temperature, pH, and conductivity) stabilize, or until the well is emptied of water. Periodic measurements of ground water temperature, pH, and conductivity were taken with a Hydac Monitor or other meter and recorded along with the volume of ground water removed from the well. Purging is done by one or more methods singularly or in combination. Bailers, pneumatic or electric sample pumps, or vacuum pump tanks or trucks may be used. The usual amount of water removed is three well volumes. The water collected during purging is either safely stored onsite for later disposition, transported to an approved onsite or offsite sewer discharge system, or an approved onsite or offsite treatment system.

Collection of Water Sample for Analysis

The well is allowed to recover after purging and a ground water sample is collected. A fresh bailer is used to collect enough water for the requirements of the laboratory for the analyses needed or required. The water samples are decanted from the bailer into the appropriate number and size containers. These containers are furnished pre-cleaned to exact EPA protocols, with and without preservatives added, by the analytical laboratory or a chemical supply company. The bottles are filled, with no headspace, and then capped with plastic caps with teflon liners.

The vials or bottles containing the ground water samples are labeled with site name, station, date, time, sampler, and analyses to be performed, and documented on a chain of custody form. They were placed in ziplock bags and stored in a chest cooled to 4°C with ice. The preserved samples are chain of custody delivered to the chosen laboratory.

Analytical Results

TPH is the abbreviations used for Total Petroleum Hydrocarbons used by the laboratories for water and soil analyses. The letter following TPH indicates a particular distinction or grouping for the results. The letters "g", "d", "k", or "o" indicates gasoline, diesel, kerosene, or oil, respectively, ie. TPH-d for diesel range TPH.

BTEX or MTBE are acronyms or abbreviations used for Benzene, Toluene, Ethylbenzene and all of the Xylenes (BTEX) and Methyl Tertiary Butyl Ether (MTBE), respectively.

MBTEX is the designation for the combination of the above five compounds.

The less than symbol, <, used with a "parts per value" indicates the lower detection limit for a given analytical result and the level, if present, of that particular analyte is below or less than that lower detection limit.

Other abbreviations commonly used are ppm, ppb, mg/Kg, ug/Kg, ml/l and ul/l are parts per million, parts per billion, milligrams per kilogram, micrograms per kilogram, milliliters per liter, microliters per liter, respectively.

Chain of Custody Documentation

All water samples that are collected by WEGE and transported to a certified analytical laboratory are accompanied by chain-of-custody (COC) documentation. This documentation is used to record the movement and custody of a sample from collection in the field to final analysis and storage. Samples to be analyzed at the certified laboratory were logged on the COC sheet provided by the laboratory. The same information provided on the sample labels (site name, sample location, date, time, and analysis to be performed) is also noted on the COC form. Each person relinquishing custody of the sample set signs the COC form indicating the date and time of the transfer to the recipient. A copy of the COC follows the samples or their extracts throughout the laboratory to aid the analyst in identifying the samples and to assure analysis within holding times.

Copies of the COC documentation are included with the laboratory results in Appendix B of this report.

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wege@cal.net

GROUNDWATER ELEVATION DATA AND PRODUCT THICKNESS MEASUREMENTS

SITE DP793
DATE 11-20-03
MEASURED BY G. Conroe
START TIME
DTW METER USED Solinst #122

	WELL ID	TIME	~~TOP OF CASING ELEVATION (feet msl)~~ Time	DEPTH TO WATER (feet msl)	DEPTH TO TOP OF FLUID (feet msl)	PRODUCT THICKNESS (feet)	GROUNDWATER ELEVATION (feet msl)	Depth of well
	MW01		12:40	14.85			214.65	18.32
	RS02		12:44	17.62			209.77	18.40
	RS05		Pumping well (320)				195.61	39.20
	RS06		12:47	14.46 [illegible] / 18.62 [illegible]			208.60	34.06
	RS07		12:27	11.10			191.89	
11-21 —	RS08	—	~~12.3~~ Buried	12.3			202.87	~~74.5~~
	RS09		15:35	6.99			188.64	
	RS10		15:10	4.45			204.01	
N Bld	R02		12:48	15.35			211.93	16.92
W Bld	R01		12:52	16.56		↓210.89	Dry water is in bottom plug	16.80
S Bld	R03		12:42	11.12		↓215.51	Dry water is in bottom plug	11.74

NOTES Calibrate pH meter w/ 7.0 sol. read 7.0 11:25
Decon DTW prior to probing after each measurement
Open wells to stabilize @ 10 AM

T2 2.70' 11.45 AM TOC 195.3 → 192.60'
→ 191.62
T4 South 5.86 11:47 AM ~~202.38~~ 197.48 → 192.61
T7 2.56 11:55 AM ↑
T3? North 9.90' 12:20 ~~197.48~~ 202.38 → 192.48

227.69 − 16.80 = 210.89

227.25 − 11.74 = 215.51

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WELL SAMPLE DATA SHEET

SITE: DP 793

DATE: 11-20-03
WELL ID#: MW01
CASING ELEVATION, IN FEET:
CASING TOTAL DEPTH, IN FEET: 18.32
CASING DIAMETER IN INCHES: 2"
DEPTH TO TOP OF FLUID:
DEPTH TO TOP OF WATER: 14.85
TOP OF WATER ELEVATION:
PUMP TYPE:
DTW METER USED:

START TIME: 12:55
SAMPLE BY: Converse
WATER COLUMN, IN FEET: 3.475
G/L PURGE ONE CASING VOLUME: .5791
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS:
PUMP RATE:
pH, Cond, Temp meter used:

TIME	INTAKE DEPTH	RATE GPM/ ~~LPM~~	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
13:00	17.4'			21.7	6.44	343	170		DT
13:03			0.4	21.9	6.25	348	173		DTW 16.1
				23.1	6.19	381	191		
1320				21.8	6.41	406	198		
1321			0.7	23.3	6.24	378	189		

Margin notes (left): 8.82 / 4.85 / 3.47; 180.9; 102 Hz; 122 Hz; 165 Hz; 108 Hz; 123 Hz
Margin notes (right): 3.47 / .165 / 1735 / 2083 / 347 / .57265 / .579 / 3 / 1.71; Depleted; Depleted

FINAL VOLUME PURGED: 2.7
TIME SAMPLED: 13:20
SAMPLE ID#: MW01
SAMPLE CONTAINERS: 3 VOAs w/ HCl
LABORATORY:
NOTES: Depleted well 3 times total purge 2.7 gallons
Sample @ 13:20
Water clear no odor

ANALYSIS INCLUDES: 8260
TPHg BTEX MtBE

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WELL SAMPLE DATA SHEET

SITE DP793

DATE 11-20-03 | START TIME 1358
WELL ID# ~~MW-02~~ RS02 | SAMPLE BY Conrose
CASING ELEVATION, IN FEET | WATER COLUMN, IN FEET
CASING TOTAL DEPTH, IN FEET 18.40 | G/L PURGE ONE CASING VOLUME
CASING DIAMETER IN INCHES 4" | (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
DEPTH TO TOP OF FLUID 17.62 | 4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)

.78   .78   .65

DEPTH TO TOP OF WATER | FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
TOP OF WATER ELEVATION | FREE PHASE PRODUCT THICKNESS
PUMP TYPE | PUMP RATE
DTW METER USED | pH, Cond, Temp meter used

127 ft

TIME	INTAKE DEPTH	RATE GPM/ ~~LPM~~	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
13:58			.3	19.5	6.58	1629	809		Depleted
14:00			.4	20.4	6.87	2844	1418		Depleted
14:10			.5						
			Hand Bail	1.5 gallons	on bottom	Below			
			pump intake	take sample					

FINAL VOLUME PURGED 2 gallons
TIME SAMPLED 1415
SAMPLE ID# RS02
SAMPLE CONTAINERS 3 VOAs
LABORATORY
ANALYSIS INCLUDES: 8260 TPH BTEX MTBE
NOTES measure volume in 5 gallon bucket - flow rate to small to read meter. Water clear no odor. Sample High solids @ well screened at bottom #3

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WELL SAMPLE DATA SHEET

SITE _____

DATE 11-20-03 | START TIME _____

WELL ID# RS 05 | SAMPLE BY _____

CASING ELEVATION, IN FEET _____ | WATER COLUMN, IN FEET _____

CASING TOTAL DEPTH, IN FEET _____ | G/L PURGE ONE CASING VOLUME _____

CASING DIAMETER IN INCHES _____ | (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT

4 INCH = 0.65 gl/ FT

DEPTH TO TOP OF FLUID _____ | 6 INCH = 1.47 gl/FT)

DEPTH TO TOP OF WATER _____ | FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION _____ | FREE PHASE PRODUCT THICKNESS _____

PUMP TYPE _____ | PUMP RATE _____

DTW METER USED _____ | pH, Cond, Temp meter used _____

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific. Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
		Sample Discharge Hose to Carboy							

FINAL VOLUME PURGED _____ | ANALYSIS INCLUDES: _____

TIME SAMPLED 1705 | _____

SAMPLE ID# _____ | _____

SAMPLE CONTAINERS _____

LABORATORY _____

NOTES _____

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WELL SAMPLE DATA SHEET

SITE DP 793
DATE 11-20-03
WELL ID# RS06
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET 34.06
CASING DIAMETER IN INCHES
DEPTH TO TOP OF FLUID 18.46
DEPTH TO TOP OF WATER 18.46
TOP OF WATER ELEVATION
PUMP TYPE
DTW METER USED

START TIME 1430
SAMPLE BY Concord
WATER COLUMN, IN FEET 15.6
G/L PURGE ONE CASING VOLUME 10 gl
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

34.06
18.46
15.60

33
15.6
.65
780
936
10.140
10.1

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1431	32.0					1953			
1438			1.0			~~974~~ 1949	974		
1441			1.5			1951			
1442				18.5	6.49	1164	581		
1443				18.9	6.50	1149	575		~~DTW 26.0~~
~~1445~~				~~19.0~~	~~6.49~~	~~1131~~	~~565~~		DTW 24.7
1445			5.0	19.0	6.49	1131	565		DTW 24.7
1447				19.3	6.44	1090	544		DTW 30.2
1449			6.5	19.4	6.40	1071	535		
1452			10.0	19.5	6.46	1097	547		
1455				19.2	~~5.68~~ 6.49	1142	571		

181.6
132 Hz
136.8 Hz

FINAL VOLUME PURGED 15 gl
TIME SAMPLED 1458
SAMPLE ID# RS06
SAMPLE CONTAINERS 3 VOA
LABORATORY
NOTES connector died before startup pump

ANALYSIS INCLUDES: TPHg BTEX
MTBE-8260

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WELL SAMPLE DATA SHEET

SITE DP 793
DATE 11-21-03
WELL ID# RS-07
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET
CASING DIAMETER IN INCHES 4"
DEPTH TO TOP OF FLUID 4.11'

DEPTH TO TOP OF WATER 4.11'
TOP OF WATER ELEVATION
PUMP TYPE Grundfos Redi Flo
DTW METER USED

START TIME 12:05
SAMPLE BY Conor
WATER COLUMN, IN FEET
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

TIME	INTAKE DEPTH	RATE GPM/ ~~LPM~~	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
12:05	6.50								DTW 4.11
12:07				18.8	6.56	924	459		4.18
12:08			1.2	18.3	6.64	856	427		4.21
12:09			2.6	18.2	6.74	821	409		4.25
12:10			4.0	18.2	6.78	819	407		4.30
12:11			5.0	18.2	6.80	809	404		4.32
12:12			6.2	18.2	6.82	798	397		4.37
12:13			7.5	18.2	6.84	783	391		4.41
12:14			8.6	18.2	6.84	774	386		4.45
12:15			10.0	18.2	6.85	762	381		4.50
12:16			11.0	18.2	6.85	753	377		4.52

117 Hz
192.5

Sore throat

FINAL VOLUME PURGED 18 gallons
TIME SAMPLED 12:27
SAMPLE ID# RS 07
SAMPLE CONTAINERS 3 voAs 2 HCl
LABORATORY Kiff Labs
NOTES Calibrate Hanna #1 99130 7.0 = 7.01 @ 20.8°C 11:32
decon DTW + Pump ready to sample 4.81 DTW after sample
7.25 PBW

ANALYSIS INCLUDES: 8260
TPHg, BTEX MTBE

Time	gal	Temp	pH	Cond	TDS	DTW
12:16	12.2	18.2	6.85	739	369	4.58
12:17	13.5	18.2	6.86	732	366	4.62
12:18	14.6	18.1	6.86	728	362	4.68
12:19	16.0	18.1	6.86	723	362	4.75
12:20	17.0	18.1	6.86	723	361	4.80

Hz 91 Sample

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WELL SAMPLE DATA SHEET

SITE DP793
DATE 11-21-03
WELL ID# KS 08
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET 14.5
CASING DIAMETER IN INCHES 2"
DEPTH TO TOP OF FLUID 12.3

DEPTH TO TOP OF WATER 12.3
TOP OF WATER ELEVATION
PUMP TYPE Bailer
DTW METER USED

START TIME 1300
SAMPLE BY Cimmerce
WATER COLUMN, IN FEET
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1300			1.0	17.4	6.39	910	483		[illegible]
1305			1.5	17.1	6.62	786	393		Dry [illegible]
13.10			1.75	16.8	6.72	780	390		

FINAL VOLUME PURGED 1.75 gl
TIME SAMPLED 13:15
SAMPLE ID#
SAMPLE CONTAINERS
LABORATORY
NOTES [illegible] well w/ Metal Detector [illegible]

ANALYSIS INCLUDES:

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WELL SAMPLE DATA SHEET

SITE
DATE 11:20
WELL ID# RS09
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET
CASING DIAMETER IN INCHES
DEPTH TO TOP OF FLUID 6.99

START TIME
SAMPLE BY
WATER COLUMN, IN FEET
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)

DEPTH TO TOP OF WATER
TOP OF WATER ELEVATION
PUMP TYPE
DTW METER USED

FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

TIME	INTAKE DEPTH	RATE GPM/ ~~LPM~~	CUM. VOL GAL. ~~LITERS~~	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
85 ft 1545				18.3	6.65	570	281		Brown Turbid
1547			1.0	18.5	6.58	541	272		
1548			2.0	18.6	6.52	556	277		
1549			3.0	18.8	6.50	568	283		Depleted
1552			4.0	19.5	6.58	571	282		
1553			5.0	19.5	6.55	558	275		
1555			6.0	19.6	6.49	690	350		
1556			7.0	19.7	6.54	761	382		Depleted
1600			8.0	19.8	6.63	838	419		

FINAL VOLUME PURGED 9 gl
TIME SAMPLED 1602
SAMPLE ID# RSC9
SAMPLE CONTAINERS 3 VOA
LABORATORY
NOTES Strong sewer odor

ANALYSIS INCLUDES:

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WELL SAMPLE DATA SHEET

SITE DP 79
DATE 11-20-03
WELL ID# RS16
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET
CASING DIAMETER IN INCHES
DEPTH TO TOP OF FLUID 4.45

DEPTH TO TOP OF WATER
TOP OF WATER ELEVATION
PUMP TYPE
DTW METER USED

START TIME
SAMPLE BY
WATER COLUMN, IN FEET
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
3:10		Bail	2½ gallons		clear				
3:24		Seconds	recharge						

FINAL VOLUME PURGED 2½ g
TIME SAMPLED 15:25
SAMPLE ID# RS16
SAMPLE CONTAINERS 3 VOA
LABORATORY
NOTES water high turbidity no odor

ANALYSIS INCLUDES: BTEX
MTBE

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE_____

DATE_____ START TIME_____

WELL ID# TW1 SAMPLE BY_____

CASING ELEVATION, IN FEET_____ WATER COLUMN, IN FEET_____

CASING TOTAL DEPTH, IN FEET_____ G/L PURGE ONE CASING VOLUME_____

CASING DIAMETER IN INCHES_____ (CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT

4 INCH = 0.65 gl/ FT

DEPTH TO TOP OF FLUID_____ 6 INCH = 1.47 gl/FT)

DEPTH TO TOP OF WATER_____ FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION_____ FREE PHASE PRODUCT THICKNESS_____

PUMP TYPE_____ PUMP RATE_____

DTW METER USED pH, Cond, Temp meter used_____

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
		Bench Purged							

FINAL VOLUME PURGED_____ ANALYSIS INCLUDES: _____

TIME SAMPLED 1625 _____

SAMPLE ID# TW1 _____

SAMPLE CONTAINERS_____

LABORATORY_____

NOTES_____

-WEGE-

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

17.2
.59

SITE DP793
DATE 11-21-07
WELL ID# R 01
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET 17.2
CASING DIAMETER IN INCHES 6"
DEPTH TO TOP OF FLUID
DEPTH TO TOP OF WATER 16.55
TOP OF WATER ELEVATION
PUMP TYPE
DTW METER USED

START TIME 1400
SAMPLE BY Converse
WATER COLUMN, IN FEET
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
	No Sample		well in		Bottom	casing	shoe		

FINAL VOLUME PURGED
TIME SAMPLED
SAMPLE ID#
SAMPLE CONTAINERS
LABORATORY
NOTES

ANALYSIS INCLUDES:

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300,
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE
DATE 11-21-03
WELL ID# R02
CASING ELEVATION, IN FEET
CASING TOTAL DEPTH, IN FEET 17.5
CASING DIAMETER IN INCHES 6"
DEPTH TO TOP OF FLUID
DEPTH TO TOP OF WATER 15.36
TOP OF WATER ELEVATION
PUMP TYPE
DTW METER USED

START TIME 1340
SAMPLE BY Contreras
WATER COLUMN, IN FEET 2.14
G/L PURGE ONE CASING VOLUME
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS
PUMP RATE
pH, Cond, Temp meter used

211.1
106 Hz
120 Hz
123 Hz

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1340	17.5		1.0	19.4	6.66	~~1471~~ 1584	664		DTW 15.4
1341			2.0	19.7	6.65	1313	675		15.41
1342			2.8	19.9	6.64	1306	651		15.42
1343			3.8	20.0	6.64	1298	649		15.45
1344			4.2	20.0	6.64	1293	646		15.47
1345			5.1	20.0	6.64	1291	645		15.49
1346			6.1	20.0	6.64	1281	640		15.51
1347			7.1	20.1	6.64	1281	640		15.54
1348			8.1	20.0	6.64	1281	641		15.57
1349			~~9.5~~ 9.5	20.1	6.64	1281	642		15.60
1350			9.2	20.1	6.65	1286	643		15.61

FINAL VOLUME PURGED 10.2
TIME SAMPLED 13:55
SAMPLE ID#
SAMPLE CONTAINERS
LABORATORY
NOTES Water Clear SI Degreed gasoline odor

ANALYSIS INCLUDES: 8260
TPH/BTEX/MTBE

WESTERN GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300
FAX (530) 662-0273
wege@cal.net

WELL SAMPLE DATA SHEET

SITE ____
DATE ~~[illegible]~~ 11-21-03
WELL ID# ~~R508~~ K 03
CASING ELEVATION, IN FEET ____
CASING TOTAL DEPTH, IN FEET 12.0
CASING DIAMETER IN INCHES 6"
DEPTH TO TOP OF FLUID ____

DEPTH TO TOP OF WATER 11.55'
TOP OF WATER ELEVATION ____
PUMP TYPE ____
DTW METER USED ____

START TIME 14:10
SAMPLE BY [illegible]
WATER COLUMN, IN FEET 0.45 = bottom PVC shoe
G/L PURGE ONE CASING VOLUME ____
(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT
4 INCH = 0.65 gl/ FT
6 INCH = 1.47 gl/FT)
FT^3 WATER 7.48 GALLONS (G)/28.3 LITERS(L)
FREE PHASE PRODUCT THICKNESS ____
PUMP RATE ____
pH, Cond, Temp meter used ____

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
		No	Sample	water	in	bottom	shoe		

FINAL VOLUME PURGED ____
TIME SAMPLED ____
SAMPLE ID# ____
SAMPLE CONTAINERS ____
LABORATORY ____
NOTES [illegible]

ANALYSIS INCLUDES: ____

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. ______ Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Gary Conner	California EDF Report? ☒ Yes ☐ No
Company/Address: URS 1786 E Bonn St Stockton	Recommended but not mandatory to complete this section:
Phone No.:	FAX No.:
Sampling Company Log Code:	Global ID:
Project Number:	P.O. No:
EDF Deliverable To (Email Address):	
Project Name: DPR 3 – Huff	Sampler Signature: [signature]
Project Address:	

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
MW-01	11-20-03	1220	3		✓		✓		✓							✓								10d	
RS-02	11-20-03	1415	3		✓		✓		✓							✓									
RS-05	11-20-03	1315	3		✓		✓		✓							✓									
RS-06	11-20-03	1455	3		✓		✓		✓							✓									
RS-07	11-21-03	1233	3		✓		✓		✓							✓									
RS-08	11-21-03	1315	3		✓		✓		✓							✓									
RS-09	11-20-03	1622	3		✓		✓		✓							✓									
RS-10	11-20-03	1525	3		✓		✓		✓							✓									
RC-2	11-21-03	1335	3		✓		✓		✓							✓									
T-01	11-20-03	1625	3		✓		✓		✓							✓									

Relinquished by:	Date	Time	Received by:
[signature]	11-21-03	1200	[signature]
[signature]	11/25/03	[illegible]	
	11/25/03	1300	Received by Laboratory: [signature]

Remarks: Run Alx Run Second EB 11-21-03 8260B TPH BTEX MTBE

Bill to: URS

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Conver

Company/Address: Wege
1386 E Beamer St. Woodland

Phone No.: 5306685300 FAX No.:

Project Number: DP793 P.O. No:

Project Name: DP793

Project Address:

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: . . .

Global ID: . . . . . .

EDF Deliverable To (Email Address):

Sampler Signature: [signature]

Analysis Request

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: SLEEVE	Container:	Container:	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Preservative:	Matrix: WATER	Matrix: SOIL	Matrix:	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)					TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
Seven	12-18-03	1040	3					✓					✓																				1404

Relinquished by:	Date	Time	Received by:	Remarks:
[signature]	12/19/03	1655		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	12/19/03	1657	NATHAN SPROSS KIFF ANALYTICAL	

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10-3-03

REASON FOR SITE VISIT Pumping Trench

TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.
12:20					
1460					
15:11					
15:45					
16:30					

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.
	3.32			
	3.18			
	3.60			
	3.77			
	3.89			

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.
	4.88			
	5.36			
	5.70			
	5.92			

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.
	9.93			
	10.35			
	10.42			
	10.9			

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6
1300	14.10	16.10	22.8	
1440				
15:40				
16:30				

RS7	RS8	RS9	RS10
4.1	12.9	6.92	4.20
		6.98	
		7.08	

R1	R2	R3	
14.7	14.7	10.9	
	16.42		

COMMENTS RS5 R3, MW1, RS2 RS6, R2 & R1 Taken @ 13:40 RS8 & RS10 @ 14:45. No product in RS8

ELECTRIC METER No meter on site

WATER METER Pumping T2 - 1620763.0
RS5 - 1619427.8
1285.2

SAMPLE(s) effluent post Carbon 15:45

SITE MONITORED BY: Converse

Lease site → 20790.0

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE 2 GALLONS/ MINUTES GALLONS PURGED
T2 FLOW RATE 5 GALLONS/ 1 MINUTES GALLONS PURGED

PRESSURE WATER CARBONS #1 7.8 PSI, #2 5.2 PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS: rusty lids - still OK

CONDITION OF COMPOUND COMMENTS: clean

Acceptance of water phase carbon units only if completely flooded with water ____yes ____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ____yes ____no - return to carbon manufacture

T3 Need 2" locking cap

```
                          Print Key Output
5763SS1 V3R2M0 960517                          OAK1                  10/02/03   Page  1
                                                                                14:53:45
Display Device  . . . . . :   CASHTERM1
User  . . . . . . . . . . :   LEUNG#AY

*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
********************************************************************************
* PTS100-02E                UPDATE/QUERY PROJECT INFORMATION         10/02/03 14:53:42*
*                                                                Next Option: 101 *
*     Applic#* 0B030644      RELATED TO APPLICATION#: 0B030595                   *
*        Type: 2  Filed: 09/30/03  Disp: I  ISSUED       10/01/03               *
*                                                                               *
*                                                                               *
*            Nbr of Days:    1            Linear Ft:           25               *
*         Effective Date:  10/03/03    Expiration Date: 10/03/03                *
*                                                                               *
*                       Location: 4035 PARK BLVD                                *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
*                                                                               *
* F3=Ext  F5=Chg  F6=Add  F7=Fwd  F8=Bck  F11=Fnd  F12=Prv  F24=Com              *
* 808 Press ENTER to return to page 1 data                                       *
********************************************************************************
*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
```

CITY OF OAKLAND

effective date revised from 10-2-03 to 10-3-03 approved by Tim.
ANNIE

faxed to Western Geo-Engineers, Attn: George
10-2-03

-WEGE-
WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST HEAMER STREET
WOODLAND CA 95776-6001
(530) 668-5300
FAX (530) 662-0273
Wege@mother.com

FROM: George Comeaux DATE: 9/30/03

TO: City of Oakland FAX #: (510) 238-2263
CEDA 637-0250

TOTAL PAGES
INCLUDING THIS PAGE
2.

We need a permit ~~for~~ the 10-~~2~~3-03 of this week.
I have included a copy of previous permit on page 2. ~~Please fax new permit to~~
530 662 0273

Thank you
George Comeaux

10-2-03 11:45 Call City of Oakland
510-238-3443
Anne "Cashier" 510 238-4774

George, "OB030644" for 10-2-03
was issued & paid yesterday
ANNIE 238-4774
Cashier.

```
                    Print Key Output                                              Page   1
5763SS1 V3R2M0 960517                      OAK1                    10/02/03  13:03:45

Display Device . . . . . :  CASHTERM1
User . . . . . . . . . . :  LEUNG#AY

 *...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
 ********************************************************************************
 * PTS100-02E              UPDATE/QUERY PROJECT INFORMATION        10/02/03 13:03:44*
 *                                                                  Next Option: 101 *
 *     Applic#* 0B030644     RELATED TO APPLICATION#: 0B030595                       *
 *        Type: 2  Filed: 09/30/03  Disp: I  ISSUED       10/01/03                   *
 *                                                                                   *
 *                                                                                   *
 *          Nbr of Days:      1            Linear Ft:            25                  *
 *       Effective Date:  10/02/03       Expiration Date: 10/02/03                   *
 *                                                                                   *
 *                    Location: 4035 PARK BLVD                                       *
 *                                                                                   *
 * F3=Ext  F5=Chg  F6=Add  F7=Fwd  F8=Bck  F11=Fnd  F12=Prv  F24=Com                 *
 * 808 Press ENTER to return to page 1 data                                          *
 ********************************************************************************
 *...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
```

CITY OF OAKLAND

```
                         Print Key Output                                  Page    1
5763SS1 V3R2M0 960517                        OAK1                10/02/03  13:03:43

Display Device . . . . . . :  CASHTERN1
User . . . . . . . . . . . :  LEUNG#AY

*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
**********************************************************************************
* PTS100-01                UPDATE/QUERY PROJECT INFORMATION        10/02/03 13:03:23*
*                                                                 Next Option: 101 *
*     Applic#* 08030644  Type: 2    RELATED TO APPLICATION#: 08030595               *
* Date Filed: 09/30/03                           Disposition: I  ISSUED    10/01/03*
*                   NUMBER  STREET NAME     SUFFIX* SUITE ASSESSOR PARCEL#          *
*   Site addr: 1)  4035    PARK                 BL        024 -0533-007-00          *
*              2)                                                                   *
*              3)                                                                   *
*                                                Prcl Cond:    Cond Aprvl:   Viol: X*
* Proj Descr: 10/2/03 close portion of sidewalk fm curb to p/l for 1-1/2"          *
*             hose for contaminated water discharge TO SANITARY SEWER               *
*             on Park bet Hampel & Brighton av(treated water) FAX permit            *
*   Insp Div: ENG-SVCS Dist:                                                        *
*      Track:                                    Lic#      Phone#     Applicant     *
*      Owner: WESTERN GEO-ENGINEERS                    (530)668-5300                *
* Contractor: WESTERN GEO-ENGINEERS              513857 (530)668-5300     X         *
*  Arch/Engr:                                                                       *
*      Agent: STEPHEN BROADWAY                                                      *
*  Applicant Addr: 1386 EAST BEAMER ST                                   No Fee:    *
*      City/State: WOODLAND CA                   Zip: 95776      Wrkrs Comp* NA     *
*   Other Related Applic#s: 08000497   08000506   08000450   08000532   08000557    *
*                           08000577   08000598   08000543   08000616   08000637    *
* F3=Ext  F5=Chg  F6=Add  F7=Fwd  F8=Bck  F11=Fnd  F12=Prv  F23=Dsc  F24=Com        *
* 987 Business Tax License Expired                                                  *
**********************************************************************************
 *...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
```

CITY OF OAKLAND

```
                          Print Key Output                                   Page    1
5763SS1 V3R2M0 960517                            OAK1              10/02/03  13:03:49

Display Device  . . . . . :   CASHTERM1
User  . . . . . . . . . . :   LEUNG#AY

*...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
********************************************************************************
* PTS115-01               APPLICATION FEE PAYMENT HISTORY        10/02/03 13:03:48 *
*                                                                Next Option: 112  *
*      Appl#: 08030644                                                             *
* Est Cost:                 0 Rev Cost:             0 New Cost:              0     *
*       Type: 2 Filed: 09/30/03  # Plans: 0  Disposition: 10/01/03 ISSUED          *
*      Addr1:   4035    PARK                BL Suite:         Parcel: 024 -0533-007-00*
*      Descr: 10/2/03 close portion of sidewalk fm curb to p/l for 1-1/2"          *
* X Nbr Type       Amount      Eff Date Dlq     Paid    Reg Rcpt#  NSF Invc#    Refundec*
*   001 ISS          12.00    09/30/03       10/01/03 R02 058324                   *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
*                                                                                  *
* F1=Hlp  F3=Ext  F7=Fwd  F8=Bck  F11=Fnd  F12=Prv  F24=Com                         *
*                                                                                  *
********************************************************************************
 *...+... 1 ...+... 2 ...+... 3 ...+... 4 ...+... 5 ...+... 6 ...+... 7 ...+... 8
```

CITY OF OAKLAND

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. ________ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: 1386 E. Beamer St. Woodland, CA 95776

Phone No.: 530 668 5300

FAX No.: 530 662 2476

Project Number: DP 793

P.O. No:

Project Name: Cal... Check

Project Address:

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Sampler Signature: [signature]

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE				Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE		Matrix: WATER	Matrix: SOIL		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)					TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
Cl out	10-2-03	1515	✓					✓			✓		✓				✓																1 wk	

Relinquished by:	Date	Time	Received by:
[signature] Converse	10-6-03	8:37	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	10/6/03	0837	[signature] / Kiff Analytical

Remarks:

Bill to: GSE

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10/8/03 REASON FOR SITE VISIT weekly check

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS _____

ELECTRIC METER _____ WATER METER 162357 2.9

SAMPLE(s _____ SITE MONITORED BY: Roy Parks

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/____MINUTES GALLONS PURGED_____
T2 FLOW RATE ___ GALLONS/____MINUTES GALLONS PURGED_____

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS slight drip carbon two tightned fittings

CONDITION OF COMPOUND COMMENTS_____

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10-14-03 REASON FOR SITE VISIT

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS

ELECTRIC METER WATER METER 162670.0

SAMPLE(s SITE MONITORED BY: Roy Bates

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/_____MINUTES GALLONS PURGED_____
T2 FLOW RATE ____ GALLONS/_____MINUTES GALLONS PURGED_____

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI, unit not running

WATER PHASE CARBON UNITS INSPECTION COMMENTS Lids rusty no water

CONDITION OF COMPOUND COMMENTS good

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

Joe
510 482 2204
[illegible] well landscaping can not dig here

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10-16-03 REASON FOR SITE VISIT Carbon change out

TIME	TRENCH WELL T1 PID	DTW	pH	TEMP.	COND.	TRENCH WELL T2 PID	DTW	pH	TEMP.	COND.	TRENCH WELL T3 PID	DTW	pH	TEMP.	COND.	TRENCH WELL T4 PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6	RS7	RS8	RS9	RS10	R1	R2	R3					
10AM - New Carbon on [illegible] system																

COMMENTS Remove #1 002819 Move #2 to #1 004364 New to #2 004165

ELECTRIC METER ______ WATER METER 1627622.0

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

SAMPLE(S) ______ SITE MONITORED BY Concore

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/_____ MINUTES GALLONS PURGED ______
T2 FLOW RATE ____ GALLONS/_____ MINUTES GALLONS PURGED ______

PRESSURE WATER CARBONS #1 ______ PSI, #2 ______ PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS ______

CONDITION OF COMPOUND COMMENTS ______

Acceptance of water phase carbon units only if completely flooded with water _____ yes _____ no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____ yes _____ no - return to carbon manufacture

This Shipping Order Must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon and retained by the Agent.

Shipper's # 18235 SA

Carrier

Agent's No.

RECEIVE, subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order,

at 10-16-03 from US Filter / Westates Oakland, Ca

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to Desert Petroleum 4035 Park Blvd

Destination Oakland (Street) (City) State of Ca Zip Code _____ County of _____

Routing _____ Delivering Carrier _____ Vehicle or Car Initial _____ No. _____

Collect On Delivery

$ _____ and remit to: _____

_____ Street _____ City _____ State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
1	PSC-200 W/HC12306	250	70	
SN	# 004160			

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $_____ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$_____

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

Shipper, Per _____

Permanent post-office address of shipper, _____ 10-16-03

☛ Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

2

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

U.S. FILTER WESTATES

FIELD SERVICE REPORT

DATE: 10/16/03

TIME: 930

LEAD TECH: Charles Harris SERVICE TECH: _____ JOB#: 182350A

BILL TO: Western Geo Eng

JOB SITE: Desert Petroleum
4035 Park Blvd
Oakland, CA 94621

SITE CONTACT: George Conserve

PHONE#: 530-668-5300

CELL PHONE#: _____

SPECIAL INST.: Deliver 1-ASC200 w/ AC1230C Carbon Drop

Pull sample from spent carbon.

START TIME: 6:30

LOADING 6:45 TO 7:00

SCH LV TIME _____ YARD OUT 9:00

ARRIVAL 9:30

DEPART 10:15

END TIME _____

PROCEED TO OTHER JOB

☒ YES ☐ NO

SITE NAME Wickland

CITY San Jose, Ca

JOB# 182360A

☐ SERVICE
☐ PICK-UP
☒ DELIVERY
☐ REWORK
☐ WARRANTY
☒ SAMPLE

FILTERS SERVICED

QTY _____ AQUA SCRUB 1000 2000

QTY _____ VENT SCRUB 1000 2000

QTY _____ P.V. 1000 2000

QTY _____ OTHER: _____

CARBON USED

QTY _____ ACRS/AC830: _____

QTY _____ VCRS/VC48C: _____

QTY 200 AC1230C: 12707

QTY _____ OTHER: _____

CONTAINERS USED:

QTY _____ DRUMS

QTY _____ TOTE BINS

QTY _____ ROLL-OFFS

QTY _____ OTHER: _____

SHIPPING INFORMATION:

PROFILE NO.: _____

CONTAINERS LEFT ON SITE: ☐ YES ☐ NO

MANIFEST DOC.#: _____

SAMPLE ANALYTICAL:

EPA 8015-TPH VM/XM (TCLP)

EPA 8010/8020 EPA8260 11RCRA

OTHER: _____

EQUIPMENT RENTED:

RENTAL COMPANY: _____

RELEASE NO.: _____

PHONE #: _____

SERVICE TECH COMMENTS: Delivered 1 ASC-200 W/AC1230C
All went well

CUSTOMER COMMENTS: _____

CUSTOMER SIGNATURE: _____ DATE: 10-16-03

6611 SAN LEANDRO STREET, OAKLAND, CA 94621 PHONE: (510) 639-7274 FAX (510) 639-7762

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. _____ Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Conaway

Company/Address: Western Geo-Eng. 1386 E Beamer St Woodland CA 95776

Phone No.: 530 668 5300 FAX No.: 530 662 7428

Project Number: DP793 P.O. No:

Project Name: DP793 - Carbon

Project Address:

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

Global ID: - - - - - - - - - - -

EDF Deliverable To (Email Address):

Sampler Signature: George Conaway

Analysis Request

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: SLEEVE	Container:	Container:	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Preservative:	Matrix: WATER	Matrix: SOIL	Matrix:	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)					TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
Carbon 004/60	10/16/03	1012	2						✓								✓																	1wk	4

Relinquished by:	Date	Time	Received by:	Remarks:
George Conaway	10/17/03	1010		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to: WGE
	10/17/03	1010		

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10-24-03 REASON FOR SITE VISIT Weekly Odm

	TRENCH WELL T1					TRENCH WELL T2					TRENCH WELL T3					TRENCH WELL T4				
TIME	PID	DTW	pH	TEMP.	COND.	PID	DTW	pH	TEMP.	COND.	PID	DTW	pH	TEMP.	COND.	PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6	RS7	RS8	RS9	RS10	R1	R2	R3					

COMMENTS Beam Oh. Need New Sign

ELECTRIC METER _____ WATER METER 1631506.9
1513.7 3 1 cycle

SAMPLE(S _____ SITE MONITORED BY: Concord

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES GALLONS PURGED _____
T2 FLOW RATE ____ GALLONS/____ MINUTES GALLONS PURGED _____

PRESSURE WATER CARBONS #1 1.5 PSI, #2 0.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 rusty lid #2 New

CONDITION OF COMPOUND COMMENTS _____

Acceptance of water phase carbon units only if completely flooded with water _____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

Inlet to C1 needs sample port

IN CASE of Emergency
Serve
EBMUD 510 287-1651 8Am-5Pm
510 287-1458 after hours
Storm Drain
RWQCB 510 662 2300

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 10/30/01 REASON FOR SITE VISIT monthly check

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS ~~Second~~ First carbon Lid reset

ELECTRIC METER _____ WATER METER 16345300

SAMPLE(s) _____ SITE MONITORED BY: Ray Hall

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____MINUTES GALLONS PURGED _____
T2 FLOW RATE ____ GALLONS/____MINUTES GALLONS PURGED _____

PRESSURE WATER CARBONS #1 1.2 PSI, #2 0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS pump pumped for 10 secs

CONDITION OF COMPOUND COMMENTS Good

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-6-03 REASON FOR SITE VISIT weekly otm

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS Clean compound check pump & enclosures 12:30

ELECTRIC METER _____

WATER METER 12:47 16379065
12:30 ~~16378944~~

SAMPLE(s) NO

SITE MONITORED BY: Canop 12-1-03

	WASTEWATER	
	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____MINUTES GALLONS PURGED _____
T2 FLOW RATE ____ GALLONS/____MINUTES GALLONS PURGED _____

PRESSURE WATER CARBONS #1 1.4 PSI, #2 0.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS _____

CONDITION OF COMPOUND COMMENTS _____

Acceptance of water phase carbon units only if completely flooded with water _____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

need model details to find well ~~MW6~~ RS-8

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-13-03 REASON FOR SITE VISIT weekly O&M

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS site clean

ELECTRIC METER ——— WATER METER 1641361.3

SAMPLE(s) _____ SITE MONITORED BY: _____

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/_____MINUTES GALLONS PURGED _____
T2 FLOW RATE ___ GALLONS/_____MINUTES GALLONS PURGED _____

PRESSURE WATER CARBONS #1 1.5 PSI, #2 0.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS Carbon #1 lid rusty #2 new

CONDITION OF COMPOUND COMMENTS _____

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-20-03 REASON FOR SITE VISIT 1/4-G Sampling Trench check & weekly O&M

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS ~~Trench 1645994.4 1600 hrs~~

ELECTRIC METER ______ Kwh WATER METER 1644688.6
1302.8

SAMPLE(S) ______ SITE MONITORED BY: Cervera

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES GALLONS PURGED ______
T2 FLOW RATE ____ GALLONS/____ MINUTES GALLONS PURGED ______

PRESSURE WATER CARBONS #1 ______ PSI, #2 ______ PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS ______

CONDITION OF COMPOUND COMMENTS ______

Acceptance of water phase carbon units only if completely flooded with water ____ yes ____ no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are n good condition ____ yes ____ no - return to carbon manufacture

14:30
RS-5 11-21-03 1646497.0 / Purged water
6619.6

-WEGE-
WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-5003
(530) 668-5300
FAX (530) 662-0273
Wege@mother.com

FROM: George Carneiro DATE: 11-14-03

TO: City of Oakland
C+EDA
Leslie

FAX #: (510) 238-2263

TOTAL PAGES INCLUDING THIS PA
4

We need a permit for the 11/20/03 this week.
I have included a copy of previous permit on page 2. Plase fax new permit to
530 662 0273

Thank you

George Carneiro

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 4035 PARK BL Parcel# 024 -0533-007-00 Appl# OB030746

11/20/03-close portion of sidewalk fm curb to p/l for 1-1/2" Permit Issued 11/20/03
hose for contaminated water discharge TO SANITARY SEWER
on Park bet Hampel & Brighton av(treated water) FAX permit

4035 PARK BL

Nbr of days: 1 Linear feet: 25
Effective: 11/20/03 Expiration: 11/20/03

SHORT TERM NON-METERED

	Applcnt	Phone#	Lic#/--License Classes--
Owner	WESTERN GEO-ENGINEERS	(530)668-5818	
Contractor	WESTERN GEO-ENGINEERS	(530)668-5300	513857/C57
Arch/Engr			
Agent	STEPHEN BROADWAY		
Applic Addr	1386 EAST BEAMER ST, WOODLAND CA, 95776		

$12.00 TOTAL FEES PAID AT ISSUANCE

$.00 Applic	$12.00 Permit
$.00 Process	$.00 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	

JOB C

Applicant: FAX

Issued by:

TOTAL P.01

PERMIT APPLICATION BY FAX

C.E.D.A.- BUILDING SERVICES, C.
250 FRANK H. OGAWA PLAZA, 2ND

SITE ADDRESS/LOCATION 4035 Park Blvd., Oakland, CA.	
DESCRIPTION OF WORK Close portion of sidewalk from curb to PL to run 1-½" hose for contaminated water discharge on Park Blvd between Hampel & Brighton Ave.	
PROPERTY OWNER'S NAME AND ADDRESS	
TYPE OF CREDIT CARD FOR PAYMENT ☑ VISA ☐ MASTER CARD	EXPIRATION DATE ON CARD 10/05
CREDIT CARD NUMBER 4024 4280 0001 4651	APPLICATION DATE
NAME AS IT APPEARS ON CARD Authorized Rep Weston Geo-Engineer	SIGNATURE OF CARD HOLDER [signature]
CC AUTHORIZATION # ☐ DECLINED	PERMIT #

1. This application form must be filled out completely. INCOMPLETE APPLICATIONS CANNOT BE PROCESSED.

2. Applicant must have a letter on file with the Office of Planning and Building (OPB) which authorizes OPB to charge applications by FAX against the card and contains an original signature of the card owner.

3. Permits by facsimile are accepted for the following permit types ONLY:
   - Repair or replacement of main water service
   - Gas meter test
   - Replacement of residential wall furnaces
   - Replacement of water heater
   - Replacement of residential FAU's
   - Replacement of electrical services in one or two residential dwelling units (R-3) up to and including 200 amps
   - Small electrical work (such as adding circuits, receptacles and lights) in one or two residential dwelling units (R-3)

4. Contractor must maintain the facsimile copy of the permit at the job site until the original is received by mail.

REMEMBER: A faxed application for a permit IS NOT A PERMIT. An application is not valid until a permit is faxed by OPB to the contractor. If you do not recieve faxed copy within 12 hours of faxing the application, or if you have difficulty faxing an application, contact this office. The original permit will be sent by mail to the contractor's address on file.

DIST: ______ ADDRESS:

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500).

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an Owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of the completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: 1) I am improving my principal place of residence or appurtenances thereto, 2) the work will be performed prior to sale, 3) I have resided in the residence for the 12 months prior to the completion of the work, and 4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period. (Section 7044, Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

☐ I, am exempt under Sec. __________ B.&P.C. for this reason __________

Signature of Owner or Authorized Agent ______ Date ______

WORKER'S COMPENSATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier ______ Policy Number ______

(This section need not be completed if the permit is for one hundred dollars ($100-) or less)

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person, in any manner, so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: Failure to secure worker's compensation is unlawful, and shall subject and employer to criminal penalties and civil fines up to one hundred thousand dollars ($100,000-), in addition to the cost of compensation, damages as provided for in Section 3706 of the Labor Code, interest, and attorney's fees.

Signature of Owner or Authorized Agent ______ Date ______

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS RELATING TO BUILDING CONSTRUCTION, AND I MAKE THIS STATEMENT UNDER PENALTY OF LAW. I HEREBY AUTHORIZE REPRESENTATIVES OF THIS CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY FOR INSPECTION PURPOSES, EXCEPT IN THOSE CONSTRUCTION PROJECTS WHERE THE BUILDING OFFICIAL, DUE TO THE NATURE OF THE PROJECT, DEEMS THESE LIMITATIONS TO BE UNREASONABLE. EVERY PERMIT ISSUED BY THE BUILDING OFFICIAL UNDER THE PROVISIONS OF THIS CODE, SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE BUILDING OR WORK AUTHORIZED BY SUCH PERMIT DOES NOT RECEIVE AN APPROVAL OF A MAJOR INSPECTION AS FURTHER IDENTIFIED IN SECTION 8-3.10 OF THIS CHAPTER, WITHIN 180 DAYS FOLLOWING THE ISSUANCE DATE OF SUCH PERMIT OR FOLLOWING THE APPROVAL DATE OF A PREVIOUS MAJOR INSPECTION. DO NOT CONCEAL OR COVER ANY CONSTRUCTION UNITS UNTIL THE WORK IS INSPECTED AND THE INSPECTION IS RECORDED ON THE BACK OF THE JOB COPY OF THIS PERMIT. ALL INSPECTION REQUESTS ARE REQUIRED AT LEAST 24 HOURS IN ADVANCE OF THE INSPECTION.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officers, employees, agents and volunteers from all actions, claims, demands, litigation, or proceedings, including those for Attorneys' fees, against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

☐ Contractor ______ Signature of Contractor or Owner or Agent ______ Date ______

☐ Owner

Authorized Agent for: ☐ Contractor ALSO PRINT NAME ☐ Owner

Address of Agent ______ CITY ______ STATE ______ ZIP ______ TELEPHONE ______

LENDER

☐ I hereby affirm, under penalty of perjury, that there is a construction lending agency for the performance of the work for which the permit is issued (Sec. 3097, Civ. C).

Lender's Name ______

Lender's Address ______

City ______ State ______ Zip ______ Phone ( )

CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License # and Class 513857-C57 City Business Tax #

Contractor's Name Weston Geo-Engineers Phone 530 [illegible] 5300

Signature [signature] Date

forms/ops/permitby.fax (03/95)

LARGER PRINT VERSION AVAILABLE UPON REQUEST

fax

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 11-30-07 REASON FOR SITE VISIT weekly check

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS Raining, system not pumping

ELECTRIC METER_____ WATER METER 164977.5 (18:15)

SAMPLE(s)_____ SITE MONITORED BY: Ray Martin

WASTEWATER	
INFLUENT	EFFLUENT

TIME
pH
Conductivity
Temperature
PID

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/_____MINUTES GALLONS PURGED_____
T2 FLOW RATE ____ GALLONS/_____MINUTES GALLONS PURGED_____

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS Good

CONDITION OF COMPOUND COMMENTS Good

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

12/3/03

metz 164996 7.4 6Am

12/11/03 10:45 16499 7.6

2.5 gpm #4 Carbon 4PSI #2 0.0

Pulled pump Cable - Bracket on pump broken - not attached

Pump pumps 165001@.0

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND CA 95776-6003
(530) 668-5300
FAX (530) 662-0273
Wege@mother.com

FROM: George Conway DATE: 12-10-03

TO: City of Oakland FAX #: (510) 238-2263
CEDA
Leslie

TOTAL PAGES
INCLUDING THIS PAGE
3

We need a permit for the 12/18/03 ~~this~~ next week.
I have included a copy of previous permit on page 2. Please fax new permit to
530 662 0273

Thank you

George Conway

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 4035 PARK BL Parcel# 024 -0533-007-00 Appl# OB030746

11/20/03 close portion of sidewalk fm curb to p/l for 1-1/2" Permit Issued 11/20/03
hose for contaminated water discharge TO SANITARY SEWER
on Park bet Hampel & Brighton av(treated water) FAX permit

4035 PARK BL

Nbr of days: 1 Linear feet: 25
Effective: 11/20/03 Expiration: 11/20/03

SHORT TERM NON-METERED

	Applcnt	Phone#	Lic#	License Classes
Owner	WESTERN GEO-ENGINEERS	(530)668-5300		
Contractor	WESTERN GEO-ENGINEERS	FAX (530)668-5300	513857	C57
Arch/Engr				
Agent	STEPHEN BROADWAY			
Applic Addr	1386 EAST BEAMER ST WOODLAND CA 95776			

$12.00 TOTAL FEES PAID AT ISSUANCE

$.00 Applic	$12.00 Permit
$.00 Process	$.00 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	

JOB C

PLANT

Applicant: FAX

Issued by:

TOTAL P.01

PERMIT APPLICATION BY FAX

C.E.D.A.- BUILDING SERVICES, C.
250 FRANK H. OGAWA PLAZA, 2ND

SITE ADDRESS/LOCATION 4035 Park Blvd, Oakland, CA.	
DESCRIPTION OF WORK Close portion of sidewalk from curb to PL to run 1-½" hose for contaminated water discharge on Park Blvd between Hampel & Brighton Ave.	
PROPERTY OWNER'S NAME AND ADDRESS	
TYPE OF CREDIT CARD FOR PAYMENT ☑ VISA ☐ MASTER CARD	EXPIRATION DATE ON CARD 10/05
CREDIT CARD NUMBER 4024 4280 0001 4651	APPLICATION DATE
NAME AS IT APPEARS ON CARD Authorized Rep Weston Geo-Engineer	SIGNATURE OF CARD HOLDER [signature]
CC AUTHORIZATION # ☐ DECLINED	PERMIT #

1. This application form must be filled out completely. INCOMPLETE APPLICATIONS CANNOT BE PROCESSED.

2. Applicant must have a letter on file with the Office of Planning and Building (OPB) which authorizes OPB to charge applications by FAX against the card and contains an original signature of the card owner.

3. Permits by facsimile are accepted for the following permit types ONLY:

- Repair or replacement of main water service
- Gas meter test
- Replacement of residential wall furnaces
- Replacement of water heater
- Replacement of residential FAU's
- Replacement of electrical services in one or two residential dwelling units (R-3) up to and including 200 amps
- Small electrical work (such as adding circuits, receptacles and lights) in one or two residential dwelling units (R-3)

Contractor must maintain the facsimile copy of the permit at the job site until the original is received by mail.

REMEMBER: A faxed application for a permit IS NOT A PERMIT. An application is not valid until a permit is faxed by OPB to the contractor. If you do not recieve faxed copy within 12 hours of faxing the application, or if you have difficulty faxing an application, contact this office. The original permit will be sent by mail to the contractor's address on file.

DIST.: ——— ADDRESS:

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500).

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an Owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of the completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: 1) I am improving my principal place of residence or appurtenances thereto, 2) the work will be performed prior to sale, 3) I have resided in the residence for the 12 months prior to the completion of the work, and 4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period. (Section 7044, Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

☐ I, am exempt under Sec. ________________ B.&P.C. for this reason ________________

Signature of Owner or Authorized Agent ——— Date

WORKER'S COMPENSATION

I hereby affirm under penalty of perjury one of the following declarations:

☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier ——— Policy Number

(This section need not be completed if the permit is for one hundred dollars ($100-) or less)

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person, in any manner, so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: Failure to secure worker's compensation is unlawful, and shall subject an employer to criminal penalties and civil fines up to one hundred thousand dollars ($100,000-), in addition to the cost of compensation, damages as provided for in Section 3706 of the Labor Code, interest, and attorney's fees.

Signature of Owner or Authorized Agent ——— Date

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS RELATING TO BUILDING CONSTRUCTION, AND I MAKE THIS STATEMENT UNDER PENALTY OF LAW. I HEREBY AUTHORIZE REPRESENTATIVES OF THIS CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY FOR INSPECTION PURPOSES, EXCEPT IN THOSE CONSTRUCTION PROJECTS WHERE THE BUILDING OFFICIAL DUE TO THE NATURE OF THE PROJECT DEEMS THESE LIMITATIONS TO BE UNREASONABLE. EVERY PERMIT ISSUED BY THE BUILDING OFFICIAL UNDER THE PROVISIONS OF THIS CODE, SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE BUILDING OR WORK AUTHORIZED BY SUCH PERMIT DOES NOT RECEIVE AN APPROVAL OF A MAJOR INSPECTION AS FURTHER IDENTIFIED IN SECTION [illegible] OF THIS CHAPTER WITHIN 180 DAYS FOLLOWING THE ISSUANCE DATE OF SUCH PERMIT OR FOLLOWING THE APPROVAL DATE OF A PREVIOUS MAJOR INSPECTION. DO NOT CONCEAL OR COVER ANY CONSTRUCTION UNITS UNTIL THE WORK IS INSPECTED AND THE INSPECTION IS RECORDED ON THE BACK OF THE JOB COPY OF THIS PERMIT. ALL INSPECTION REQUESTS ARE REQUIRED AT LEAST 24 HOURS IN ADVANCE OF THE INSPECTION.

I hereby agree to save, defend, indemnify and keep harmless the City of Oakland and its officers, employees, agents and volunteers from all actions, claims, demands, litigation, or proceedings, including those for attorney's fees, against the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or sub-sidewalk or otherwise by virtue thereof, and will in all things strictly comply with the conditions under which this permit is granted.

☐ Contractor ☐ Owner ——— Signature of Contractor or Owner or Agent ——— Date

Authorized Agent for: ☐ Contractor ☐ Owner — Also PRINT NAME

Address of Agent ——— CITY ——— STATE ——— ZIP ——— TELEPHONE

LENDER

☐ I hereby affirm, under penalty of perjury, that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name

Lender's Address

City ——— State ——— Zip ——— Phone ( )

CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

License # and Class 513857-C57 — City Business Tax #

Contractor's Name Weston Geo-Engineer — Phone 530 668 5300

Signature [signature] — Date

forms/ops/permitby.fax (03/93)

LARGER PRINT VERSION AVAILABLE UPON REQUEST

fax

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 12-18-03

REASON FOR SITE VISIT 1/4 ly Sample Sewer discharge / monthly pumping receptor trench

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS Ready for EBMUD inspect & Sample treatment system

ELECTRIC METER

WATER METER 13:45 1655688.0 Trench
9Am 1654385.3 RS5
1302.7

SAMPLE(S) Sewer discharge

SITE MONITORED BY: Converse

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES GALLONS PURGED ____
T2 FLOW RATE ____ GALLONS/____ MINUTES GALLONS PURGED ____

PRESSURE WATER CARBONS #1 7 PSI, #2 6 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 lid rusty but ok carbons are in good shape

#1 004364
#2 004160

CONDITION OF COMPOUND COMMENTS berm ok no ponded water

Acceplance of water phase carbon units only if completely flooded with water ____ yes ____ no - return to carbon manufacture
Acceplance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ____ yes ____ no - return to carbon manufacture

pull pump
Clean & inspect pumps put back together quick connect fitting "plastic" broke at pump will have to get new one.
pvc pipe ~~3/4~~ 3/4" = replace w/ hose

Need new 25' garden hose
Need sample port for carbon In

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 12-23-07

REASON FOR SITE VISIT ______

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS ______

ELECTRIC METER ______

WATER METER 1655688.5

SAMPLE(S) ______

SITE MONITORED BY: [signature]

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/______MINUTES GALLONS PURGED______
T2 FLOW RATE ____ GALLONS/______MINUTES GALLONS PURGED______

PRESSURE WATER CARBONS #1______PSI, #2______PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS ______

CONDITION OF COMPOUND COMMENTS ______

Acceptance of water phase carbon units only if completely flooded with water______yes ______no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition ______yes ______no - return to carbon manufacture

add hose to pump discharge line, no power to pump check house
no power to down stairs portion no power basement

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD.
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5043550 1

WASTE WATER PRETREATMENT, SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM, DAILY 2880 GALLONS

DATE 12-30-03 REASON FOR SITE VISIT weekly visit

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND.

TRENCH WELL T4				
PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

RS7	RS8	RS9	RS10

R1	R2	R3	

COMMENTS Valve from pump to #1 carbon off. Turn on pump start

ELECTRIC METER New meter 13:30 WATER METER 1655682.0

SAMPLE(S): No SITE MONITORED BY: Conveng

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/___ MINUTES GALLONS PURGED_____
T2 FLOW RATE ___ GALLONS/___ MINUTES GALLONS PURGED_____

PRESSURE WATER CARBONS #1 2.8 PSI, #2 2.0 PSI,

RS5 3.1 / 1 minute

WATER PHASE CARBON UNITS INSPECTION COMMENTS Good

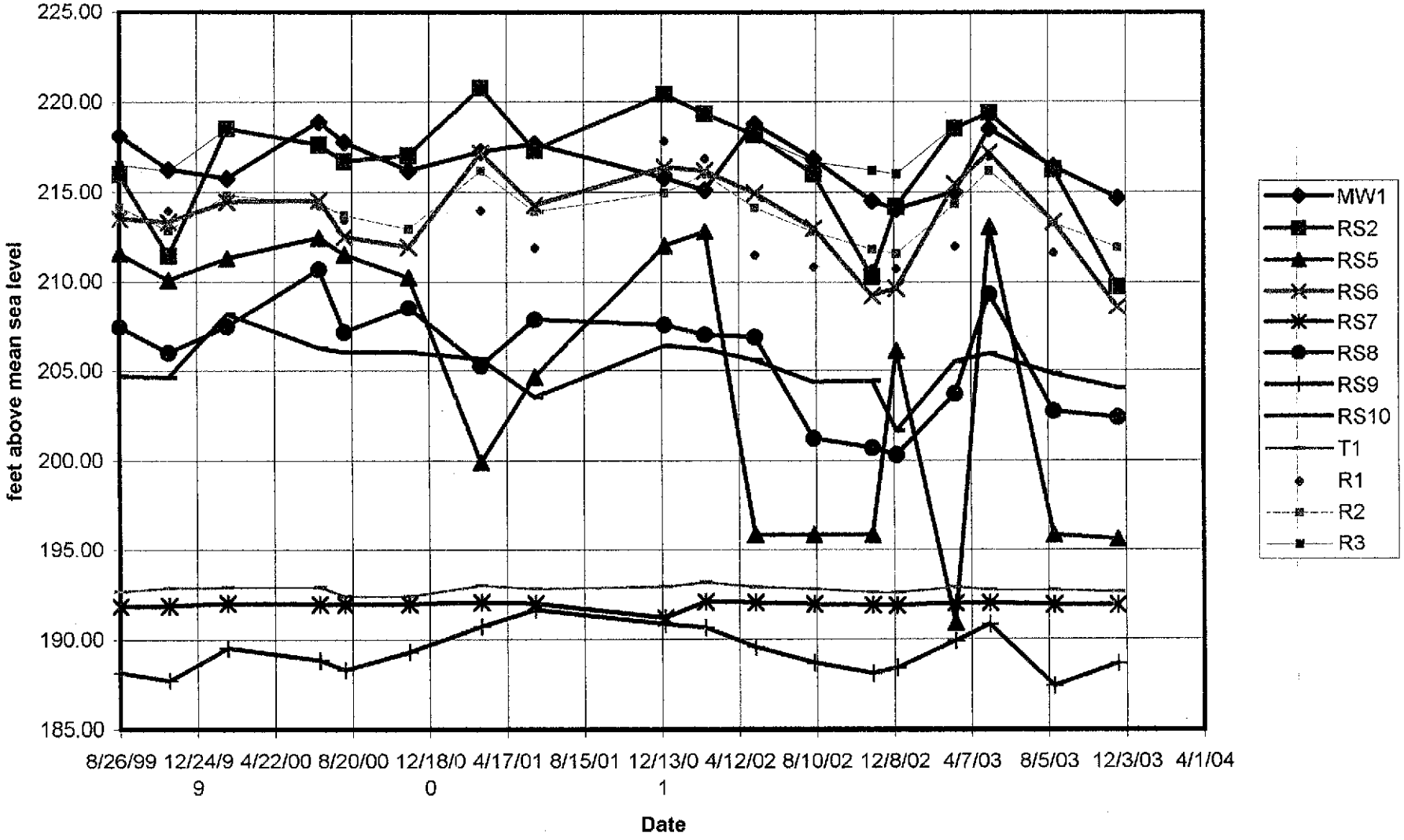
CONDITION OF COMPOUND COMMENTS Clean

Acceptance of water phase carbon units only if completely flooded with water_____yes _____no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition _____yes _____no - return to carbon manufacture

APPENDIX B.

GROUNDWATER ELEVATION CHART

Groundwater Elevation



KIFF ANALYTICAL LLC

Report Number : 32163
Date : 3/21/03

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 1 Water Sample
Project Name : DP793
Project Number : DP793

Dear Mr. Converse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 32163

Date : 3/21/03

Project Name : **DP793**

Project Number : **DP793**

Sample : **Carbon Discharge** Matrix : Water Lab Number : 32163-01

Sample Date :3/13/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/03
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/03
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/03
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/03
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/03
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/16/03
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	3/16/03
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	3/16/03

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32163

Date : 3/21/03

QC Report : Method Blank Data

Project Name : **DP793**

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	3/16/03
Toluene	< 0.50	0.50	ug/L	EPA 8260B	3/16/03
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	3/16/03
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	3/16/03
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	3/16/03
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	3/16/03
Toluene - d8 (Surr)	95.0		%	EPA 8260B	3/16/03
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	3/16/03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32163

Date : 3/21/03

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793**

Project Number : **DP793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	32163-01	<0.50	40.0	40.0	40.9	40.0	ug/L	EPA 8260B	3/16/03	102	100	2.25	70-130	25
Toluene	32163-01	<0.50	40.0	40.0	42.1	41.0	ug/L	EPA 8260B	3/16/03	105	102	2.74	70-130	25
Tert-Butanol	32163-01	11	200	200	212	215	ug/L	EPA 8260B	3/16/03	101	102	1.54	70-130	25
Methyl-t-Butyl Ether	32163-01	<0.50	40.0	40.0	38.0	37.8	ug/L	EPA 8260B	3/16/03	95.1	94.5	0.686	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 32163

Date : 3/21/03

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793**

Project Number : **DP793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	3/16/03	102	70-130
Toluene	40.0	ug/L	EPA 8260B	3/16/03	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	3/16/03	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	3/16/03	92.5	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 32163 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

California EDF Report? ☐ Yes ☒ No

Company/Address: WEGE 1386 Beamer Woodland CA 95776

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

Phone No.: 530-668-5300

FAX No.: 530-662-0273

Project Number: DP793

P.O. No:

EDF Deliverable To (Email Address): wegelab@calnet

Project Name: DP793

Sampler Signature: A D Broadway

Project Address: 4035 Park Blvd Oakland

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request	TAT	For Lab Use Only
Carbon Discharge	3/13/03	1200	3		✓		✓		✓		TPH Gas/BTEX/MTBE (8260B) ✓	✓	01

Analysis Request columns: BTEX (8021B); BTEX/TPH Gas/MTBE (8021B/M8015); TPH as Diesel (M8015); TPH as Motor Oil (M8015); TPH Gas/BTEX/MTBE (8260B); 5 Oxygenates/TPH Gas/BTEX (8260B); 7 Oxygenates/TPH Gas/BTEX (8260B); 5 Oxygenates (8260B); 7 Oxygenates (8260B); Lead Scav. (1,2 DCA & 1,2 EDB - 8260B); EPA 8260B (Full List); Volatile Halocarbons (EPA 8260B); Lead (7421/239.2) TOTAL (X) W.E.T. (X)

TAT: 12 hr/24 hr/48 hr/72 hr/1 wk (1 wk circled)

Relinquished by	Date	Time	Received by
A D Broadway	3/14/03	1120	
	031403	1120	Received by Laboratory: Michelle Woodworth Kiff Analytical

Remarks:

Bill to:

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 35261
Date : 10/9/2003

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 1 Water Sample
Project Name : Carbon Check
Project Number : DP793

Dear Mr. Converse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Jeff Dahl

KIFF ANALYTICAL LLC

Report Number : 35261
Date : 10/9/2003

Project Name : **Carbon Check**
Project Number : **DP793**

Sample : **C1 out** Matrix : Water Lab Number : 35261-01
Sample Date :10/3/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**150**	0.50	ug/L	EPA 8260B	10/9/2003
Toluene	**5.5**	0.50	ug/L	EPA 8260B	10/9/2003
Ethylbenzene	**27**	0.50	ug/L	EPA 8260B	10/9/2003
Total Xylenes	**35**	0.50	ug/L	EPA 8260B	10/9/2003
Methyl-t-butyl ether (MTBE)	**6.0**	5.0	ug/L	EPA 8260B	10/9/2003
TPH as Gasoline	**1100**	50	ug/L	EPA 8260B	10/9/2003
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	10/9/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/9/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35261

Date : 10/9/2003

QC Report : Method Blank Data

Project Name : **Carbon Check**

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/8/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/8/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/8/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/8/2003
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	10/8/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/8/2003
Toluene - d8 (Surr)	99.0		%	EPA 8260B	10/8/2003
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	10/8/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35261

Date : 10/9/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Carbon Check**

Project Number : **DP793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	35284-12	<0.50	40.0	40.0	39.2	39.2	ug/L	EPA 8260B	10/8/03	98.0	98.0	0.102	70-130	25
Toluene	35284-12	<0.50	40.0	40.0	38.7	38.5	ug/L	EPA 8260B	10/8/03	96.7	96.2	0.492	70-130	25
Tert-Butanol	35284-12	<5.0	200	200	185	189	ug/L	EPA 8260B	10/8/03	92.4	94.4	2.14	70-130	25
Methyl-t-Butyl Ether	35284-12	<0.50	40.0	40.0	39.1	39.6	ug/L	EPA 8260B	10/8/03	97.8	99.0	1.30	70-130	25

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35261

Date : 10/9/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **Carbon Check**

Project Number : **DP793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/8/03	106	70-130
Toluene	40.0	ug/L	EPA 8260B	10/8/03	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/8/03	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/8/03	105	70-130

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 35261 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: 1386 E. Beamer St. Woodland, CA 95776

Phone No.: 530 668 5300

FAX No.: 530 662 2476

Project Number: DP 793

P.O. No:

Project Name: Carbon Check

Project Address:

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Sampler Signature: G. Converse

Analysis Request

Sample Designation	Date	Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
C1 out	10-3-03	1545	✓		✓			✓	✓			✓												1wk	-01

Relinquished by:	Date	Time	Received by:
G. Converse	10-6-03	8:37	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	10/6/03	0837	Martin [illegible] / Kiff Analytical

Remarks:

Bill to: [illegible]

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 35414
Date : 10/21/2003

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 1 Water Sample
Project Name : DP793-carbon
Project Number : DP793

Dear Mr. Converse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Jeff Dahl

KIFF ANALYTICAL LLC

Report Number : 35414
Date : 10/21/2003

Project Name : **DP793-carbon**
Project Number : **DP793**

Sample : **Carbon 004160** Matrix : Water Lab Number : 35414-01
Sample Date :10/16/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/20/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	10/20/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	10/20/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	10/20/2003
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	10/20/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	10/20/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/20/2003
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	10/20/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35414

Date : 10/21/2003

QC Report : Method Blank Data

Project Name : **DP793-carbon**

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/20/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/20/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/20/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/20/2003
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	10/20/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/20/2003
Toluene - d8 (Surr)	103		%	EPA 8260B	10/20/2003
4-Bromofluorobenzene (Surr)	109		%	EPA 8260B	10/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35414

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 10/21/2003

Project Name : **DP793-carbon**

Project Number : **DP793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	35431-09	<0.50	40.0	40.0	38.0	37.8	ug/L	EPA 8260B	10/19/03	95.0	94.5	0.554	70-130	25
Toluene	35431-09	<0.50	40.0	40.0	39.6	39.4	ug/L	EPA 8260B	10/19/03	99.0	98.4	0.633	70-130	25
Tert-Butanol	35431-09	<5.0	200	200	204	203	ug/L	EPA 8260B	10/19/03	102	102	0.295	70-130	25
Methyl-t-Butyl Ether	35431-09	<0.50	40.0	40.0	43.8	46.1	ug/L	EPA 8260B	10/19/03	110	115	5.02	70-130	25

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35414

Date : 10/21/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793-carbon**

Project Number : **DP793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/19/03	96.5	70-130
Toluene	40.0	ug/L	EPA 8260B	10/19/03	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/19/03	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/19/03	118	70-130

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 35414 Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Conover

California EDF Report? ☐ Yes ☑ No

Company/Address: Western Geo-Eng. 1386 E Beamer St Woodland, CA 95776

Recommended but not mandatory to complete this section:
Sampling Company Log Code: - - -
Global ID: - - - - - - - - - - -
EDF Deliverable To (Email Address):

Phone No.: 530 668 5300 FAX No.: 530 662 7428

Project Number: DP793 P.O. No:

Project Name: DP793 - Carbon

Sampler Signature: G Conover

Project Address:

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request: BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
Carbon 00460	10/16/03	10:45	2			✓						✓												1wk	01

Relinquished by:	Date	Time	Received by:	Remarks:
G Conover	10-17-03	1010		
	Date	Time	Received by:	
	Date	Time	Received by Laboratory:	Bill to: Cage
	10/17/03	1010	Kiff Analytical	

Distribution: White - Lab, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 11 Water Samples
Project Name : DP793-1/4ly
Project Number :

Dear Mr. Converse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Jeff Dahl

KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **MW01** Matrix : Water Lab Number : 35977-01
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	11/30/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS02** Matrix : Water Lab Number : 35977-02
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	96.4		% Recovery	EPA 8260B	11/30/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS05** Matrix : Water Lab Number : 35977-03
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**150**	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	**720**	2.5	ug/L	EPA 8260B	12/3/2003
Ethylbenzene	**240**	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	**1800**	2.5	ug/L	EPA 8260B	12/3/2003
Methyl-t-butyl ether (MTBE)	**0.72**	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	**17000**	250	ug/L	EPA 8260B	12/3/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	11/30/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS06** Matrix : Water Lab Number : 35977-04
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/29/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/29/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/29/2003
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	11/29/2003
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	11/29/2003

Approved By: Jeff Dahl

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS07** Matrix : Water Lab Number : 35977-05
Sample Date :11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**700**	5.0	ug/L	EPA 8260B	12/1/2003
Toluene	**13**	5.0	ug/L	EPA 8260B	12/1/2003
Ethylbenzene	**110**	5.0	ug/L	EPA 8260B	12/1/2003
Total Xylenes	**110**	5.0	ug/L	EPA 8260B	12/1/2003
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Diisopropyl ether (DIPE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Ethyl-t-butyl ether (ETBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Tert-amyl methyl ether (TAME)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/1/2003
TPH as Gasoline	**4800**	500	ug/L	EPA 8260B	12/1/2003
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	12/1/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/1/2003

Approved By: Jeff Dahl

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KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS08** Matrix : Water Lab Number : 35977-06
Sample Date :11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1700**	25	ug/L	EPA 8260B	12/1/2003
Toluene	**10000**	25	ug/L	EPA 8260B	12/1/2003
Ethylbenzene	**1700**	25	ug/L	EPA 8260B	12/1/2003
Total Xylenes	**12000**	25	ug/L	EPA 8260B	12/1/2003
Methyl-t-butyl ether (MTBE)	**< 25**	25	ug/L	EPA 8260B	12/1/2003
Diisopropyl ether (DIPE)	**< 25**	25	ug/L	EPA 8260B	12/1/2003
Ethyl-t-butyl ether (ETBE)	**< 25**	25	ug/L	EPA 8260B	12/1/2003
Tert-amyl methyl ether (TAME)	**< 25**	25	ug/L	EPA 8260B	12/1/2003
Tert-Butanol	**< 250**	250	ug/L	EPA 8260B	12/1/2003
TPH as Gasoline	**100000**	2500	ug/L	EPA 8260B	12/1/2003
Toluene - d8 (Surr)	90.6		% Recovery	EPA 8260B	12/1/2003
4-Bromofluorobenzene (Surr)	93.1		% Recovery	EPA 8260B	12/1/2003

Approved By: Jeff Dahl

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KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS09** Matrix : Water Lab Number : 35977-07
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**920**	5.0	ug/L	EPA 8260B	12/1/2003
Toluene	**5.3**	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	**6.1**	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	**20**	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	**30**	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	**46**	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	**3600**	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	99.8		% Recovery	EPA 8260B	11/30/2003

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KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **RS10** Matrix : Water Lab Number : 35977-08
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	**< 5.0**	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	97.5		% Recovery	EPA 8260B	11/30/2003

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Report Number : 35977

Date : 12/4/2003

Project Name : **DP793-1/4ly**

Project Number :

Sample : **R02** Matrix : Water Lab Number : 35977-09

Sample Date :11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1400**	5.0	ug/L	EPA 8260B	12/1/2003
Toluene	**46**	5.0	ug/L	EPA 8260B	12/1/2003
Ethylbenzene	**57**	5.0	ug/L	EPA 8260B	12/1/2003
Total Xylenes	**490**	5.0	ug/L	EPA 8260B	12/1/2003
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Diisopropyl ether (DIPE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Ethyl-t-butyl ether (ETBE)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Tert-amyl methyl ether (TAME)	**< 5.0**	5.0	ug/L	EPA 8260B	12/1/2003
Tert-Butanol	**< 50**	50	ug/L	EPA 8260B	12/1/2003
TPH as Gasoline	**8000**	500	ug/L	EPA 8260B	12/1/2003
Toluene - d8 (Surr)	81.3		% Recovery	EPA 8260B	12/1/2003
4-Bromofluorobenzene (Surr)	88.2		% Recovery	EPA 8260B	12/1/2003

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Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **T01** Matrix : Water Lab Number : 35977-10
Sample Date :11/20/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1800**	10	ug/L	EPA 8260B	12/1/2003
Toluene	**120**	10	ug/L	EPA 8260B	12/1/2003
Ethylbenzene	**520**	10	ug/L	EPA 8260B	12/1/2003
Total Xylenes	**510**	10	ug/L	EPA 8260B	12/1/2003
Methyl-t-butyl ether (MTBE)	**11**	10	ug/L	EPA 8260B	12/1/2003
Diisopropyl ether (DIPE)	**< 10**	10	ug/L	EPA 8260B	12/1/2003
Ethyl-t-butyl ether (ETBE)	**< 10**	10	ug/L	EPA 8260B	12/1/2003
Tert-amyl methyl ether (TAME)	**< 10**	10	ug/L	EPA 8260B	12/1/2003
Tert-Butanol	**< 100**	100	ug/L	EPA 8260B	12/1/2003
TPH as Gasoline	**10000**	1000	ug/L	EPA 8260B	12/1/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	12/1/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	12/1/2003

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KIFF ANALYTICAL LLC

Report Number : 35977
Date : 12/4/2003

Project Name : **DP793-1/4ly**
Project Number :

Sample : **EB** Matrix : Water Lab Number : 35977-11
Sample Date :11/21/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	96.6		% Recovery	EPA 8260B	11/30/2003

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Report Number : 35977

Date : 12/4/2003

QC Report : Method Blank Data

Project Name : **DP793-1/4ly**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/29/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/29/2003
Toluene - d8 (Surr)	98.4		%	EPA 8260B	11/29/2003
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	11/29/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/29/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/29/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/29/2003
Toluene - d8 (Surr)	100		%	EPA 8260B	11/29/2003
4-Bromofluorobenzene (Surr)	98.6		%	EPA 8260B	11/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	101		%	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	97.9		%	EPA 8260B	11/30/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/1/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/1/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/1/2003
Toluene - d8 (Surr)	99.2		%	EPA 8260B	12/1/2003
4-Bromofluorobenzene (Surr)	98.3		%	EPA 8260B	12/1/2003

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35977

Date : 12/4/2003

QC Report : Method Blank Data

Project Name : **DP793-1/4ly**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	11/30/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	11/30/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	11/30/2003
Toluene - d8 (Surr)	88.0		%	EPA 8260B	11/30/2003
4-Bromofluorobenzene (Surr)	81.9		%	EPA 8260B	11/30/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	12/2/2003
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	12/2/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/2/2003
Toluene - d8 (Surr)	89.1		%	EPA 8260B	12/2/2003
4-Bromofluorobenzene (Surr)	81.5		%	EPA 8260B	12/2/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

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KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35977

Date : 12/4/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793-1/4ly**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	35977-04	<0.50	40.0	40.0	40.9	40.3	ug/L	EPA 8260B	11/29/03	102	101	1.45	70-130	25
Toluene	35977-04	<0.50	40.0	40.0	39.7	39.4	ug/L	EPA 8260B	11/29/03	99.3	98.4	0.961	70-130	25
Tert-Butanol	35977-04	<5.0	200	200	204	208	ug/L	EPA 8260B	11/29/03	102	104	1.43	70-130	25
Methyl-t-Butyl Ether	35977-04	<0.50	40.0	40.0	38.0	38.4	ug/L	EPA 8260B	11/29/03	95.0	96.0	1.12	70-130	25
Benzene	35971-03	<0.50	40.0	40.0	39.2	38.7	ug/L	EPA 8260B	11/29/03	98.0	96.8	1.23	70-130	25
Toluene	35971-03	<0.50	40.0	40.0	40.3	39.8	ug/L	EPA 8260B	11/29/03	101	99.6	1.02	70-130	25
Tert-Butanol	35971-03	<5.0	200	200	211	207	ug/L	EPA 8260B	11/29/03	106	103	2.24	70-130	25
Methyl-t-Butyl Ether	35971-03	<0.50	40.0	40.0	42.3	42.3	ug/L	EPA 8260B	11/29/03	106	106	0.0709	70-130	25
Benzene	35991-04	0.83	40.0	40.0	39.3	39.5	ug/L	EPA 8260B	11/30/03	96.3	96.7	0.440	70-130	25
Toluene	35991-04	0.73	40.0	40.0	41.5	40.4	ug/L	EPA 8260B	11/30/03	102	99.0	2.96	70-130	25
Tert-Butanol	35991-04	5.1	200	200	211	206	ug/L	EPA 8260B	11/30/03	103	100	2.43	70-130	25
Methyl-t-Butyl Ether	35991-04	66	40.0	40.0	104	106	ug/L	EPA 8260B	11/30/03	96.5	103	6.15	70-130	25
Benzene	35971-02	<0.50	40.0	40.0	38.4	38.1	ug/L	EPA 8260B	12/1/03	96.1	95.2	0.889	70-130	25
Toluene	35971-02	<0.50	40.0	40.0	40.4	40.2	ug/L	EPA 8260B	12/1/03	101	101	0.421	70-130	25
Tert-Butanol	35971-02	<5.0	200	200	209	197	ug/L	EPA 8260B	12/1/03	104	98.6	5.65	70-130	25
Methyl-t-Butyl Ether	35971-02	<0.50	40.0	40.0	39.6	40.1	ug/L	EPA 8260B	12/1/03	98.9	100	1.33	70-130	25
Benzene	35994-18	<0.50	40.0	40.0	42.0	41.2	ug/L	EPA 8260B	11/30/03	105	103	1.99	70-130	25
Toluene	35994-18	<0.50	40.0	40.0	42.7	41.8	ug/L	EPA 8260B	11/30/03	107	104	2.06	70-130	25

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Report Number : 35977

Date : 12/4/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793-1/4ly**

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	35994-18	<5.0	200	200	210	203	ug/L	EPA 8260B	11/30/03	105	101	3.55	70-130	25
Methyl-t-Butyl Ether	35994-18	<0.50	40.0	40.0	38.3	38.0	ug/L	EPA 8260B	11/30/03	95.8	95.0	0.786	70-130	25
Benzene	36012-10	<0.50	40.0	40.0	42.4	40.6	ug/L	EPA 8260B	12/2/03	106	101	4.46	70-130	25
Toluene	36012-10	<0.50	40.0	40.0	43.4	41.1	ug/L	EPA 8260B	12/2/03	108	103	5.49	70-130	25
Tert-Butanol	36012-10	<5.0	200	200	224	209	ug/L	EPA 8260B	12/2/03	112	104	6.83	70-130	25
Methyl-t-Butyl Ether	36012-10	0.54	40.0	40.0	38.3	37.8	ug/L	EPA 8260B	12/2/03	94.5	93.1	1.49	70-130	25

Approved By: Jeff Dahl

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Report Number : 35977

QC Report : Laboratory Control Sample (LCS)

Date : 12/4/2003

Project Name : **DP793-1/4ly**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	11/29/03	100	70-130
Toluene	40.0	ug/L	EPA 8260B	11/29/03	99.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/29/03	99.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/29/03	93.2	70-130
Benzene	40.0	ug/L	EPA 8260B	11/29/03	95.7	70-130
Toluene	40.0	ug/L	EPA 8260B	11/29/03	98.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/29/03	99.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/29/03	109	70-130
Benzene	40.0	ug/L	EPA 8260B	11/30/03	96.5	70-130
Toluene	40.0	ug/L	EPA 8260B	11/30/03	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/30/03	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/30/03	101	70-130
Benzene	40.0	ug/L	EPA 8260B	12/1/03	97.2	70-130
Toluene	40.0	ug/L	EPA 8260B	12/1/03	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/1/03	99.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/1/03	111	70-130
Benzene	40.0	ug/L	EPA 8260B	11/30/03	106	70-130

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 35977

Date : 12/4/2003

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793-1/4ly**

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	11/30/03	107	70-130
Tert-Butanol	200	ug/L	EPA 8260B	11/30/03	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	11/30/03	96.6	70-130
Benzene	40.0	ug/L	EPA 8260B	12/2/03	104	70-130
Toluene	40.0	ug/L	EPA 8260B	12/2/03	106	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/2/03	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/2/03	94.4	70-130

Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 35977 Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: Wege 1386 E Beamer St Woodland

Phone No.: FAX No.:

Project Number: P.O. No:

Project Name: DP743 - Wolf

Project Address:

California EDF Report? ☒ Yes ☐ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):

Sampler Signature: G Converse

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
MW-01	11-20-03	1320	3		✓		✓		✓							✓								1wk	-01
RS 02	11-20-03	1415	3		✓		✓		✓							✓									-02
RS 05	11-20-03	1715	3		✓		✓		✓							✓									-03
RS 06	11-20-03	1458	3		✓		✓		✓							✓									-04
RS 07	11-21-03	1227	3		✓		✓		✓							✓									-05
RS 08	11-21-03	1315	3		✓		✓		✓							✓									-06
RS 09	11-20-03	1602	3		✓		✓		✓							✓									-07
RS 10	11-20-03	1525	3		✓		✓		✓							✓									-08
R 02	11-21-03	1355	3		✓		✓		✓							✓									-09
T 01	11-20-03	1625	3		✓		✓		✓							✓									-10

Relinquished by	Date	Time	Received by
G Converse	11-24-03	1720	[signature]
[signature]	11/25/03	1500	
	112503	1800	Received by Laboratory: [signature] / Kiff Analytical

Remarks: Please Also Run Sample EB 11-21-03 8260B TPHg BTEX MTBE -11

Bill to: Wege

Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

Report Number : 36404
Date : 12/22/2003

George Converse
Western Geo-Engineers
1386 East Beamer Street
Woodland, CA 95776

Subject : 1 Water Sample
Project Name : DP793
Project Number : DP793

Dear Mr. Converse,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

R P Furry

KIFF ANALYTICAL LLC

Report Number : 36404
Date : 12/22/2003

Project Name : **DP793**
Project Number : **DP793**

Sample : **Sewer** Matrix : Water Lab Number : 36404-01
Sample Date :12/18/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/22/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	12/22/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	12/22/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	12/22/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	12/22/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	12/22/2003
Toluene - d8 (Surr)	89.5		% Recovery	EPA 8260B	12/22/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	12/22/2003

Report Number : 36404

Date : 12/22/2003

atrix Spike/ Matrix Spike Duplicate

DP793

: DP793

Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
36404-01	<0.50	39.9	39.9	37.2	37.2	ug/L	EPA 8260B	12/22/03	93.3	93.1	0.188	70-130	25
36404-01	<0.50	39.9	39.9	36.1	36.5	ug/L	EPA 8260B	12/22/03	90.4	91.5	1.21	70-130	25
36404-01	6.4	200	200	195	199	ug/L	EPA 8260B	12/22/03	94.3	96.7	2.51	70-130	25
:ther 36404-01	<0.50	39.9	39.9	37.1	36.0	ug/L	EPA 8260B	12/22/03	92.9	90.1	3.00	70-130	25

Approved By: R P Furry

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 36404

Date : 12/22/2003

lethod Blank Data

DP793

r : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
	< 0.50	0.50	ug/L	EPA 8260B	12/22/2003
	< 0.50	0.50	ug/L	EPA 8260B	12/22/2003
	< 0.50	0.50	ug/L	EPA 8260B	12/22/2003
	< 0.50	0.50	ug/L	EPA 8260B	12/22/2003
/TBE)	< 0.50	0.50	ug/L	EPA 8260B	12/22/2003
	< 50	50	ug/L	EPA 8260B	12/22/2003
	87.8		%	EPA 8260B	12/22/2003
e (Surr)	103		%	EPA 8260B	12/22/2003

Approved By: R P Furry

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 36404

Date : 12/22/2003

aboratory Control Sample (LCS)

DP793

r : **DP793**

	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
	40.0	ug/L	EPA 8260B	12/22/03	93.2	70-130
	40.0	ug/L	EPA 8260B	12/22/03	84.8	70-130
	200	ug/L	EPA 8260B	12/22/03	97.8	70-130
Ether	40.0	ug/L	EPA 8260B	12/22/03	94.4	70-130

Approved By: R P Furry

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

FF ALYTICAL LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 36404 Page 1 of 1

Chain-of-Custody Record and Analysis Request

ct (Hardcopy or PDF To): Converse

dress: Wege

Barman St. Woodland

300 | FAX No.:

er: | P.O. No:

3

ss:

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address):

Sampler Signature: [signature]

Analysis Request

esignation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE				Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE		Matrix: WATER	Matrix: SOIL		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)					TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
...er	12-18-03	1610	3					✓					✓							✓														14401

Relinquished by	Date	Time	Received by:
[signature]	12/19/03	1655	
	Date	Time	Received by:
	Date	Time	Received by Laboratory:
	12/19/03	1657	NATHAN SPROSS KIFF ANALYTICAL

Remarks:

Bill to:

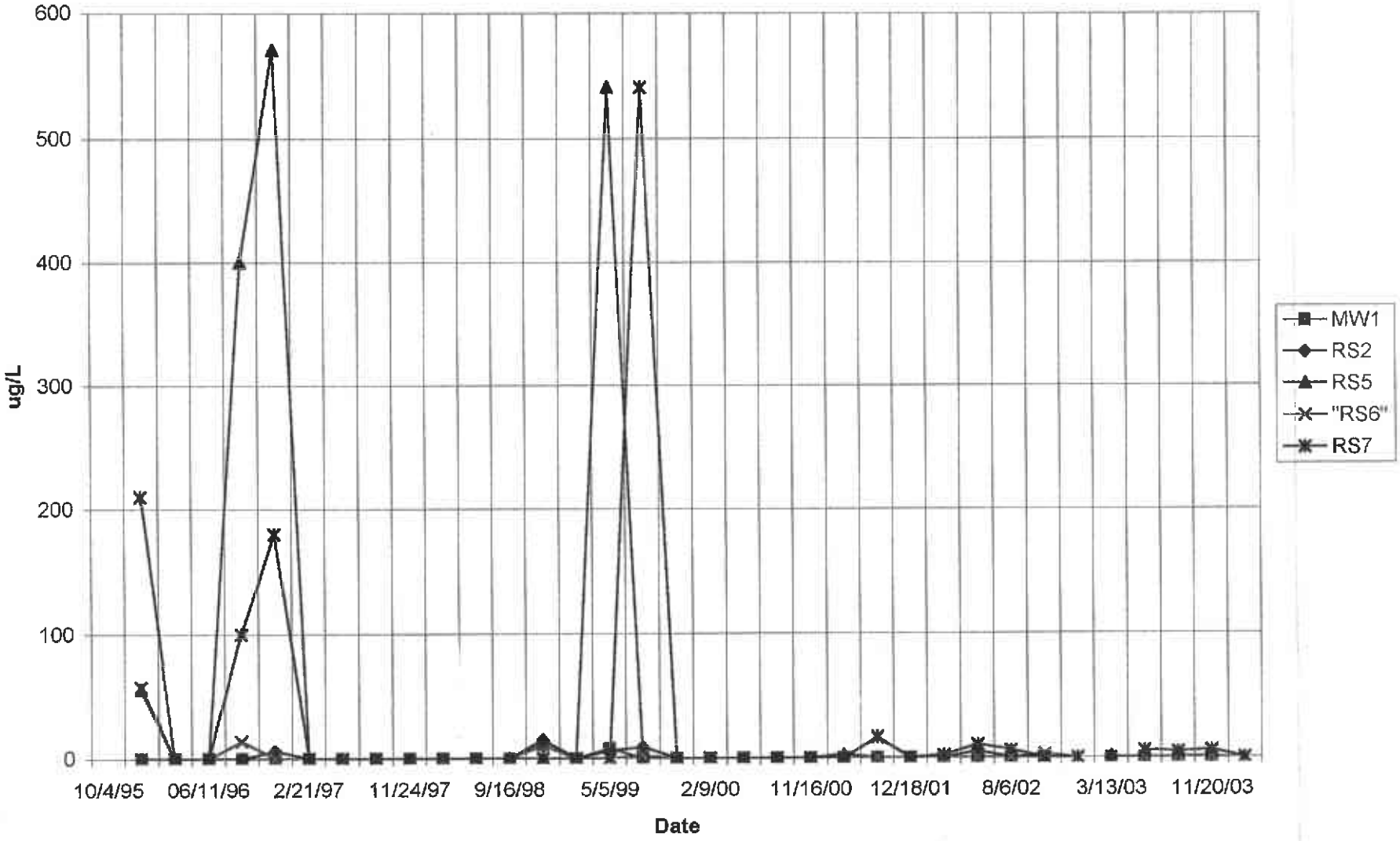
Lab, Pink - Originator

Forms/coc 121001.fh9

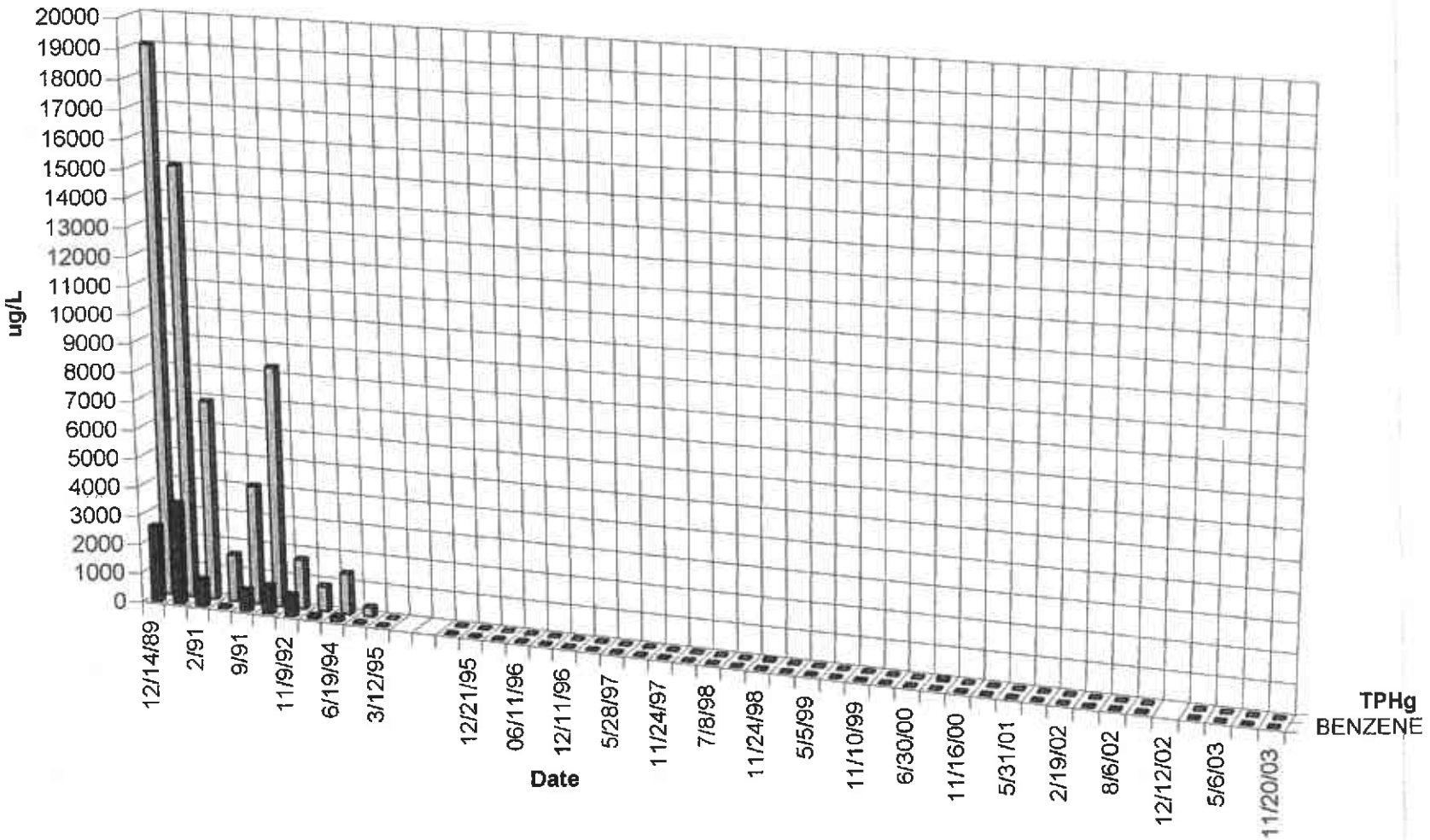
APPENDIX D.

MtBE, TPHg AND BENZENE CHARTS

MTBE IN WELLS



RS-1/MW-1 TPHg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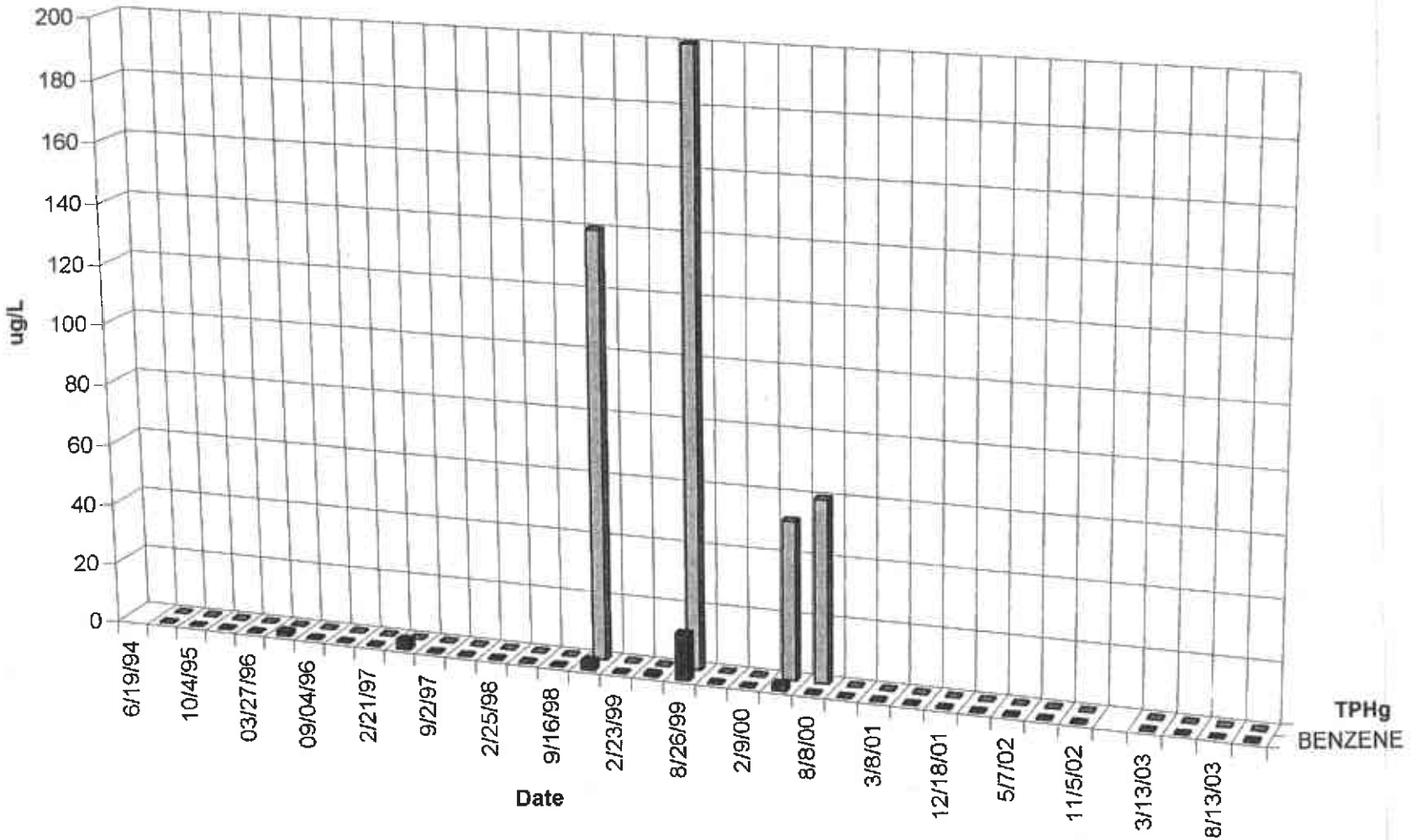
TPHg
BENZENE

RS-2 TPHg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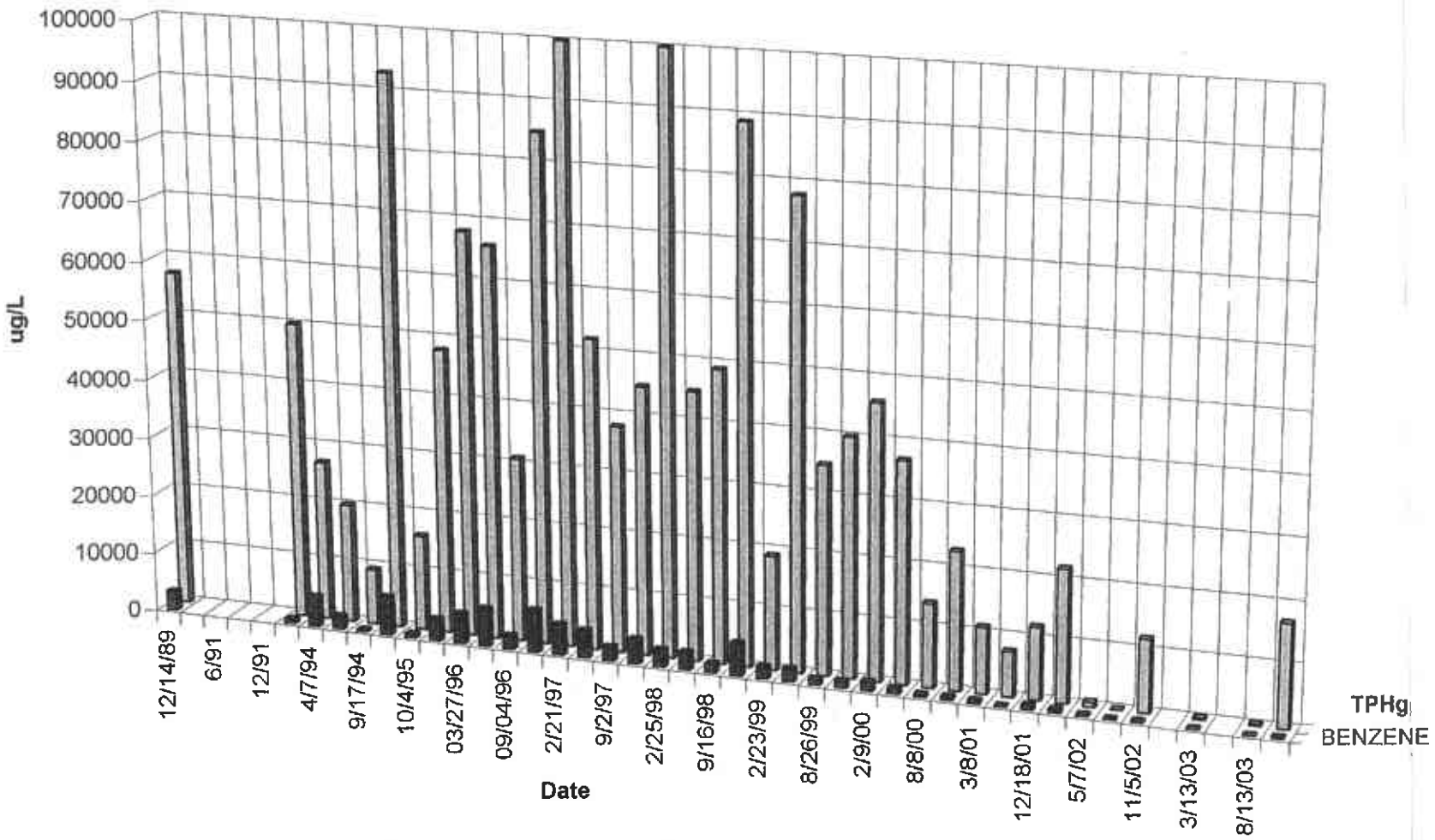
BENZENE

RS-5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Date
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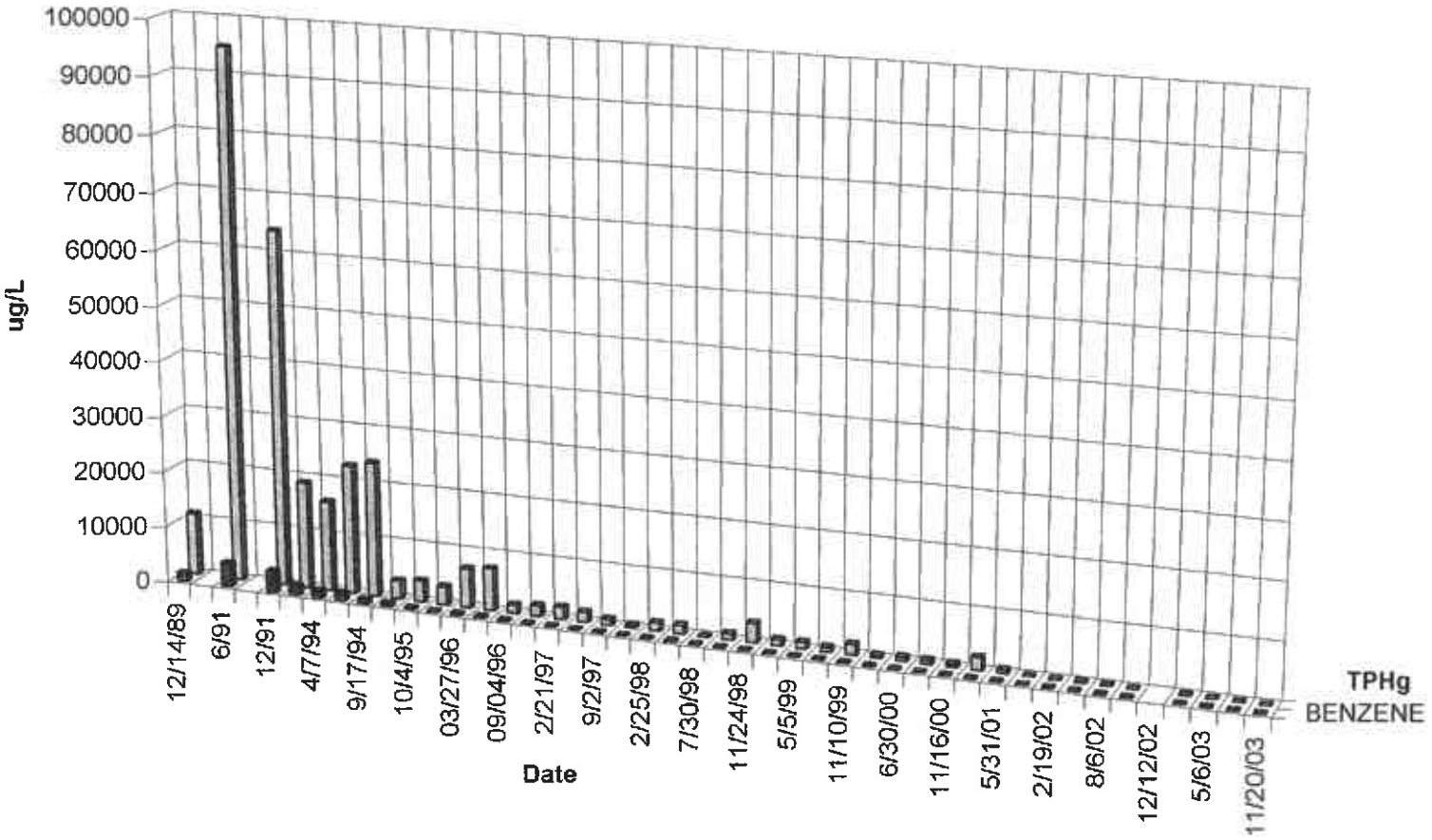
BENZENE

RS-6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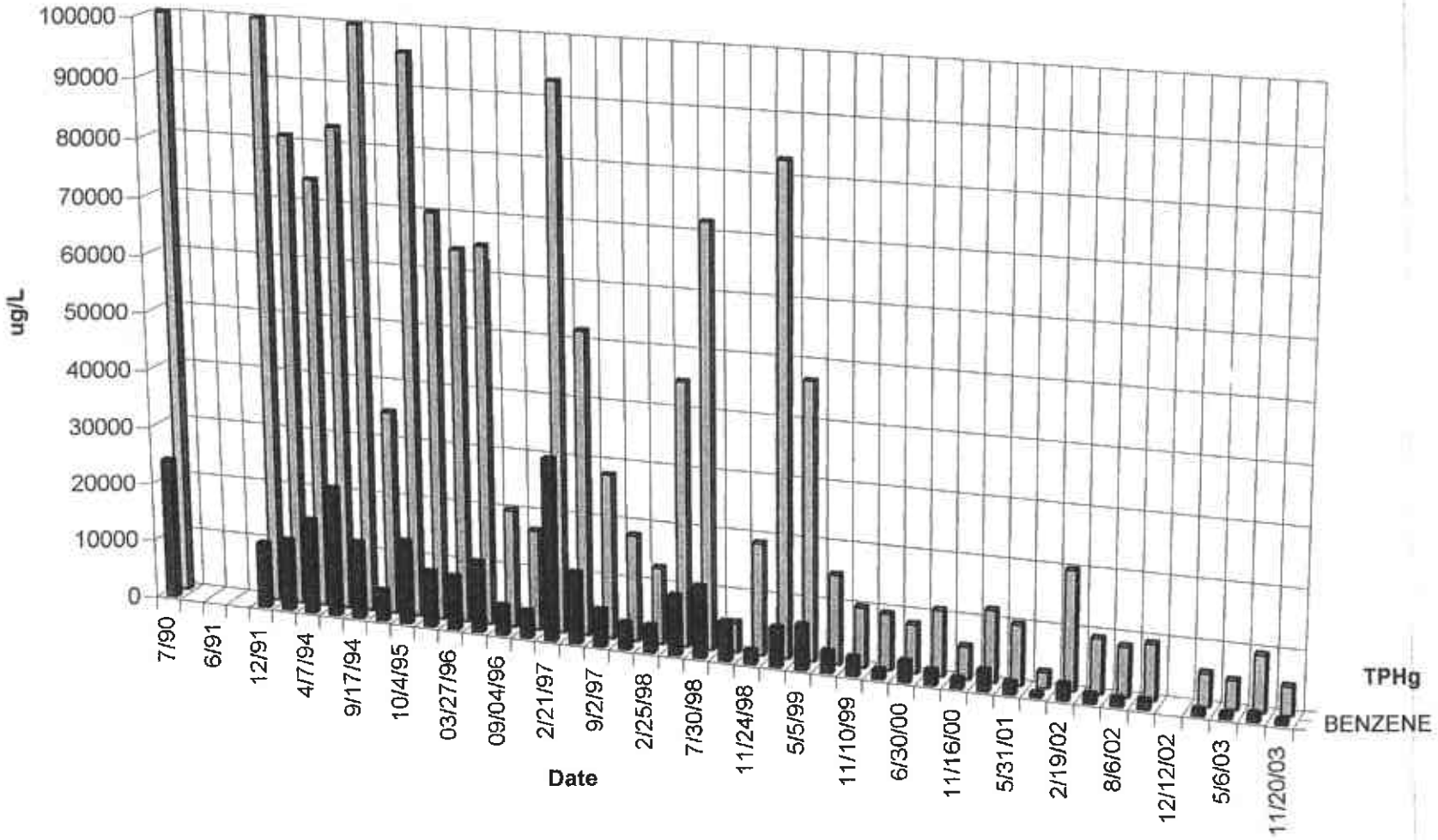
RS-7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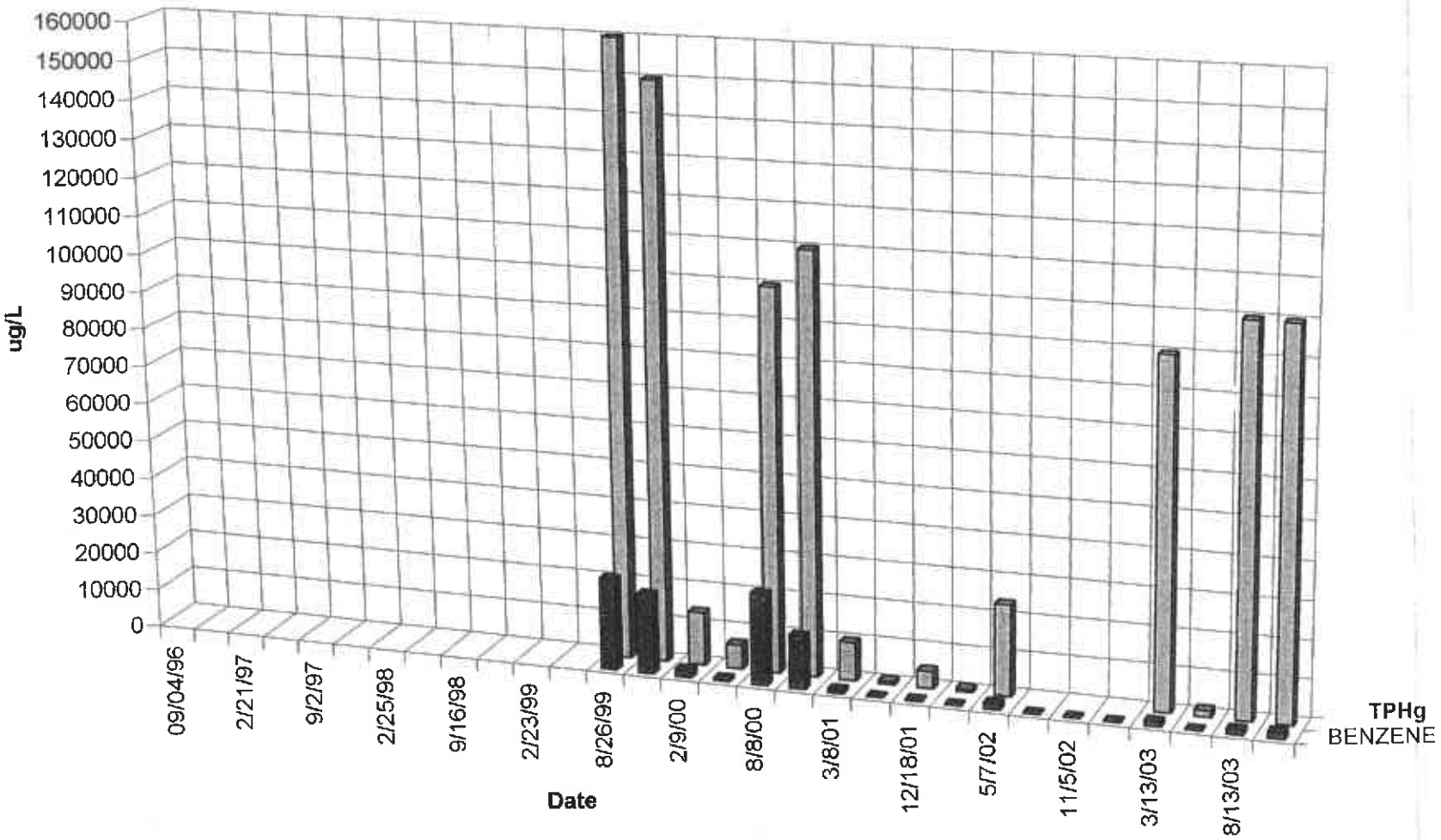
BENZENE

RS-8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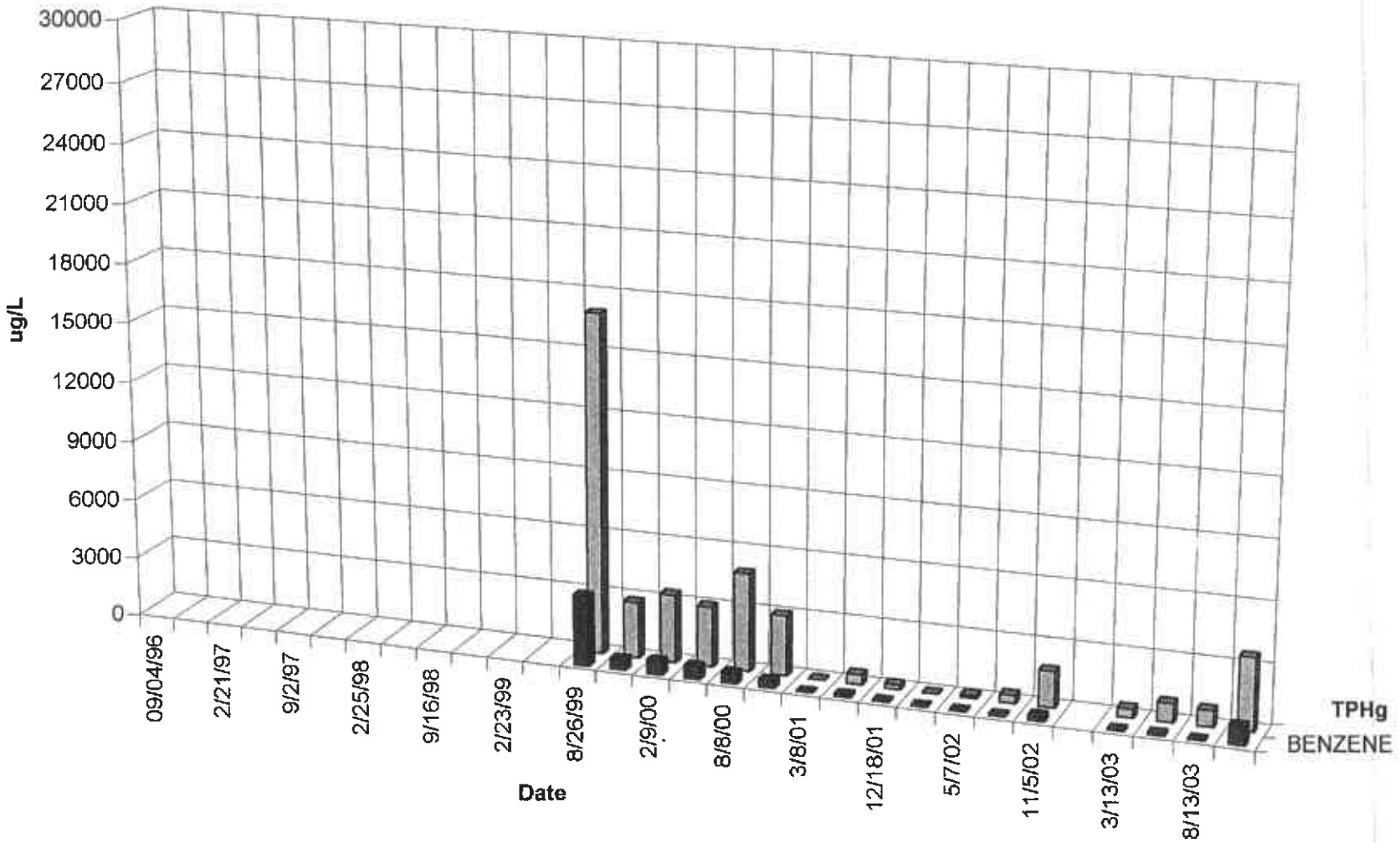
RS-9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Date
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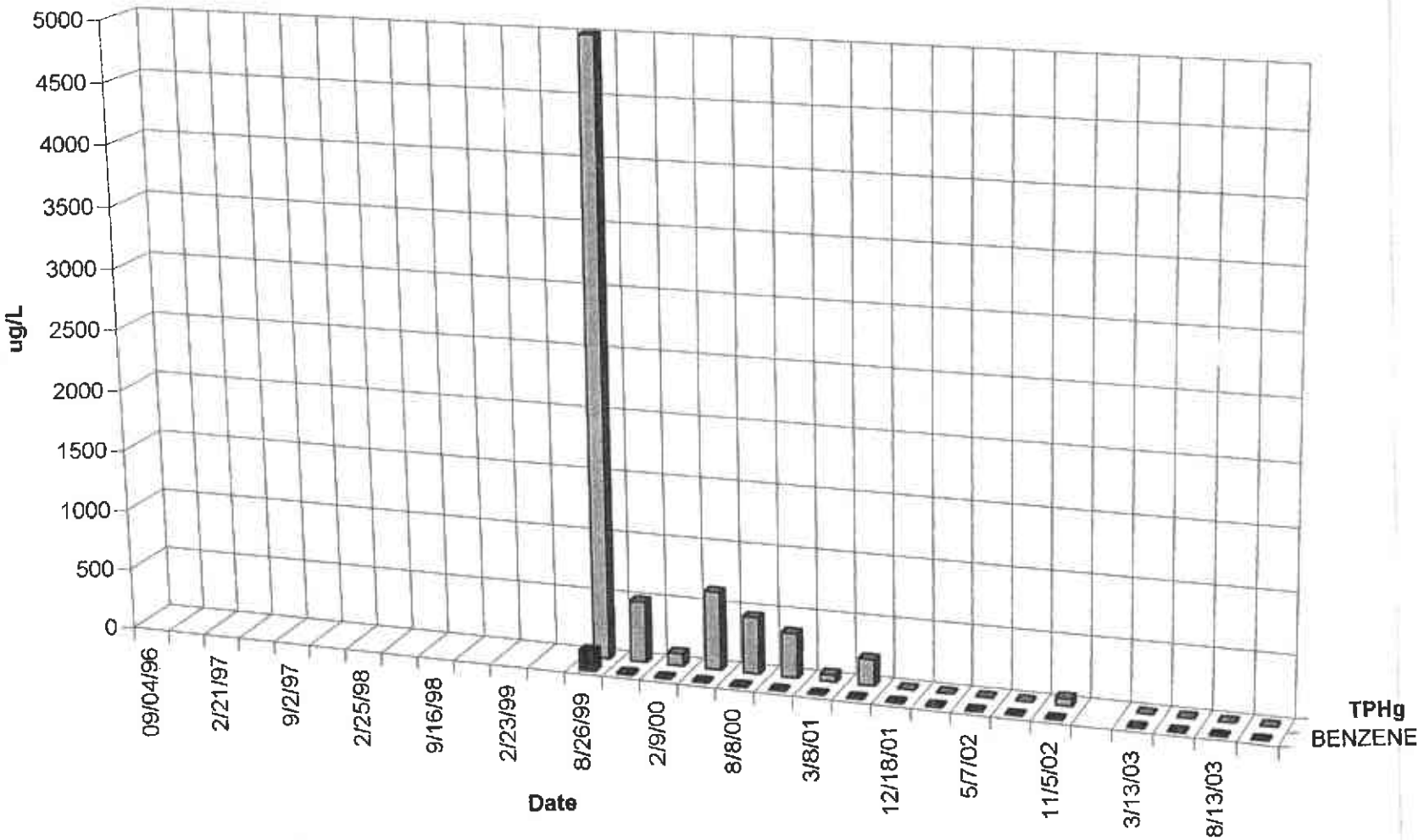
BENZENE

RS-10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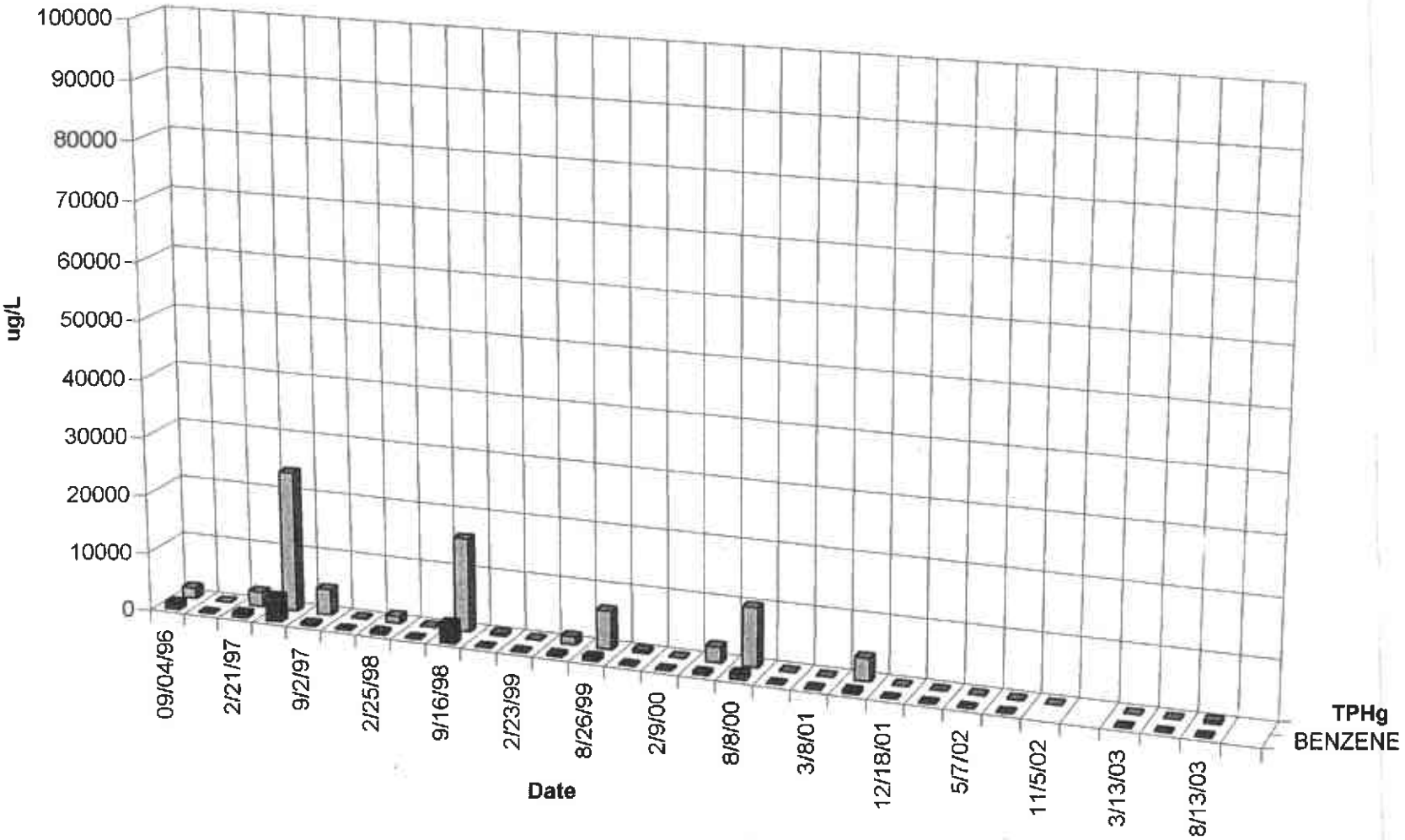
R-1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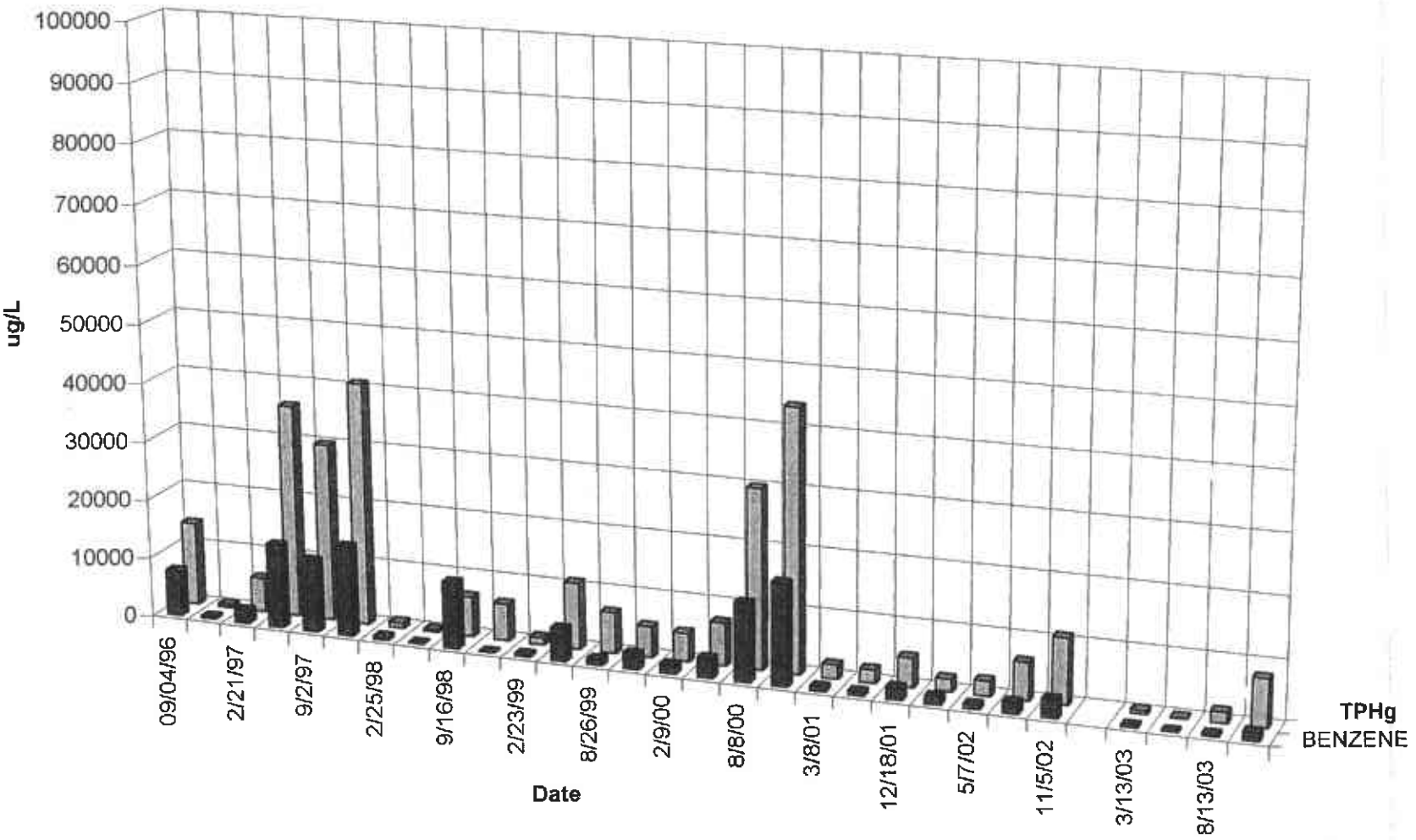
BENZENE

R-2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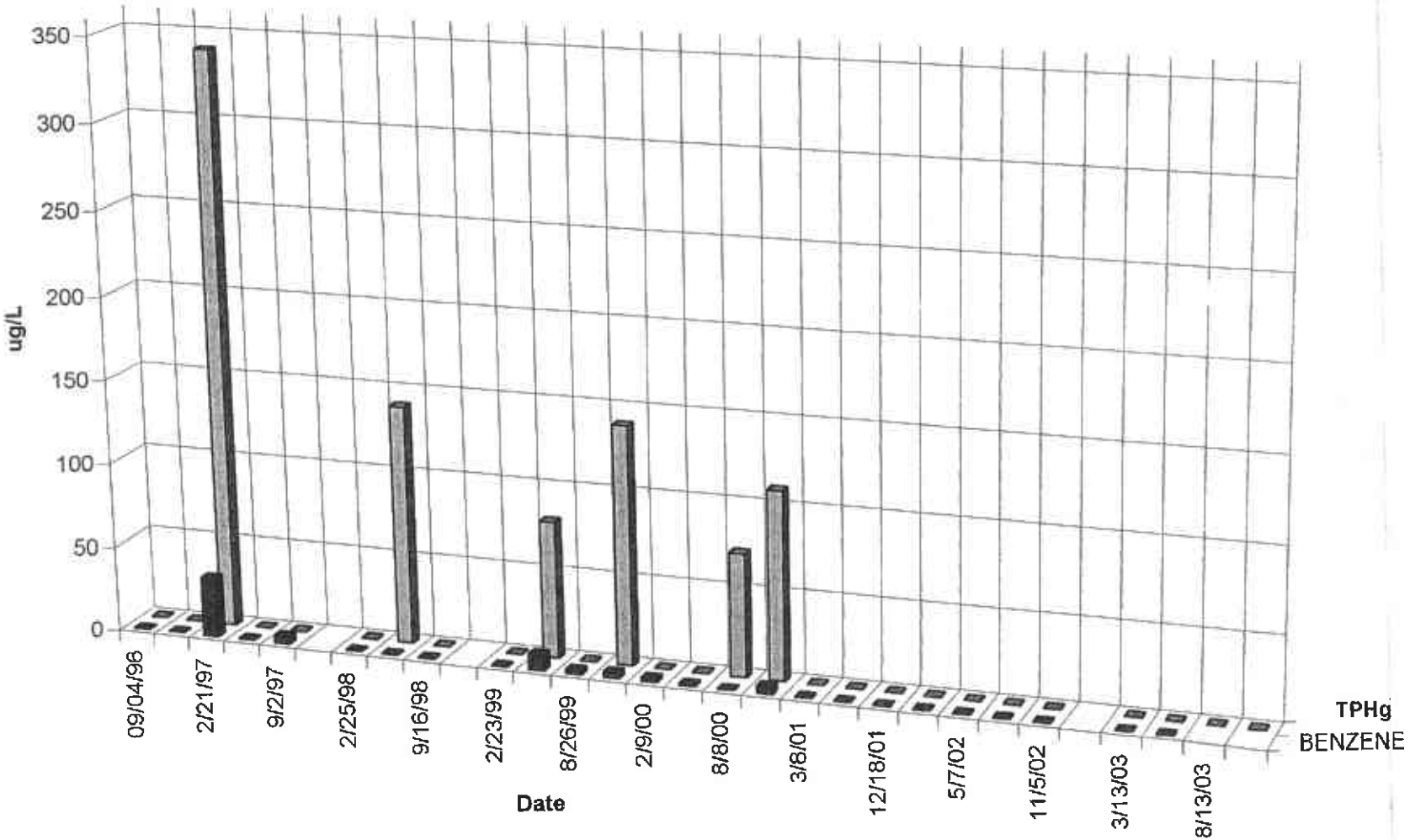
R-3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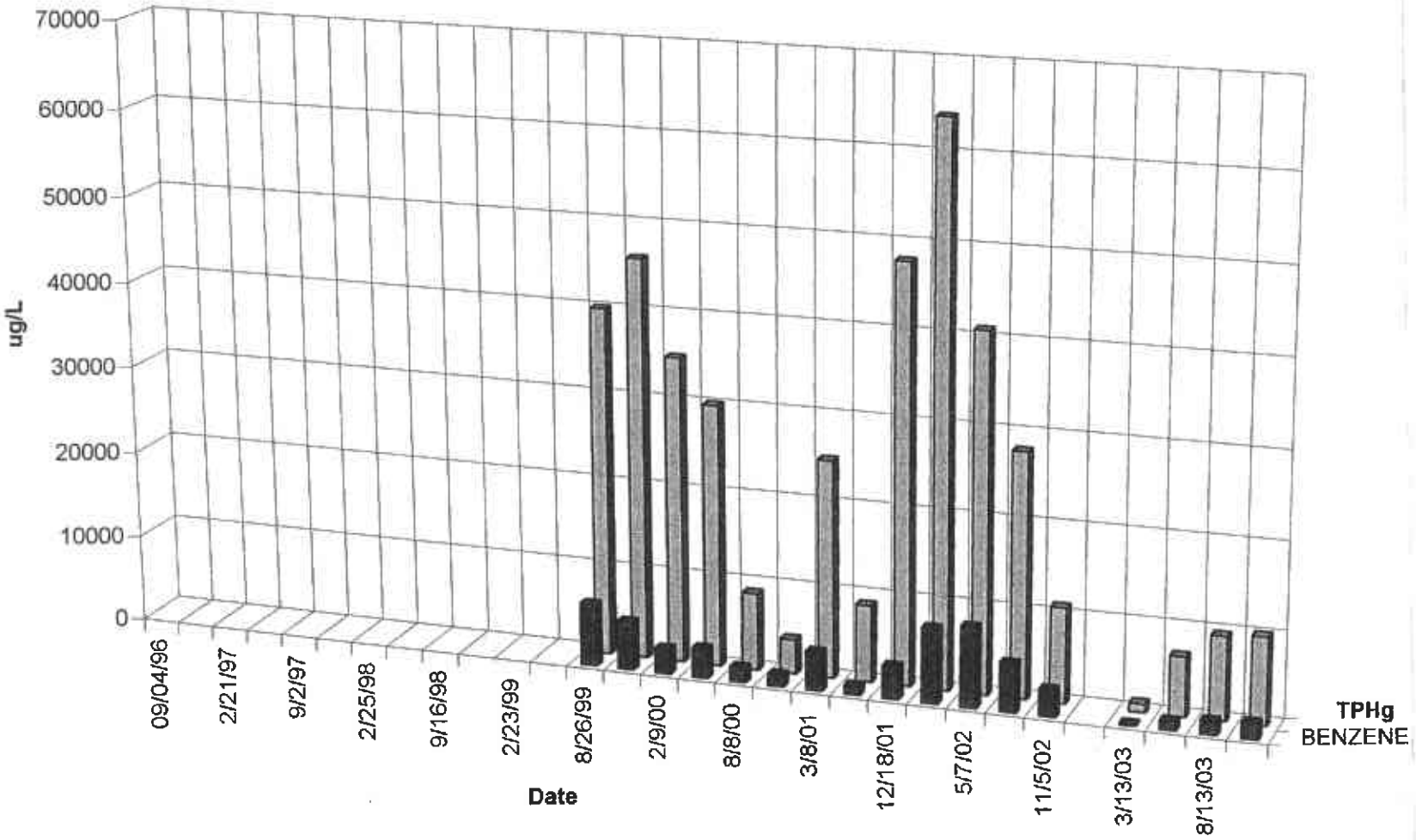
BENZENE

T-1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5/7/02
11/5/02
3/13/03
8/13/03
Date
TPHg
BENZENE

APPENDIX E

WASTEWATER DISCHARGE REPORT

desert petroleum inc.

Molly Ong.
Source Control Division
East Bay Municipal Utility District
P.O. Box 24055, MS 702
Oakland, CA 94623
(510) 287-1618
Fax (510) 287-0621

January 6, 2004

RE: Wastewater Discharge Quarterly Sampling for Permit #5043550 1, DP 793.

Dear Ms. Ong:

The enclosed table and certified laboratory report represents the sampling for wastewater Discharge Permit #5043550 1 for the period between September 12, and December 30, 2003. Continuous discharge from pumping at RS-5 was stopped on July 19, 2001. This pumping was restarted on March 21, 2002 and is continuing as of this date. A sample of the water discharged to sewer was obtained on December 18, 2003 and analyzed for TPHg, BTEX and MtBE using EPA method 8260B.

All discharge conditions have been met.

CERTIFICATION East Bay Municipal Utility District, Permit #5043550 1

I certify under penalty of law that this document and all attachments were prepared under my direction of supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person of persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature Bill Thompson 1/14/04 date

TABLE 1
GROUNDWATER REMOVAL
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

DATE PURGED	METER READING IN GALLONS RS5	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring	ACCUMULATED GALLONS REMOVED FROM TRENCH &WELLS in GALLONS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA METHOD 8020 - 8260B TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	Sample Location
					0									
9/12/02	1364301.5	1364301.5		0	63127	207328.8	270455.7	12000	270	330	130	1100	2	RS5
10/30/02	1389884.7	1389884.7		0	63127	232912.0	296038.9							
11/5/02	1392931.0	1392931.0		0	63127	235958.3	299085.2	12000	150	360	21	890	<2	RS5
12/12/02	1408784.2	1410216.0		1432	64559	251811.5	316370.2							
1/9/03	1430304.1	1431653.1		1349	65908	271899.6	337807.3							
1/30/03	1447338.3	1448961.9	2.3	1624	67531	287584.8	355116.1							
2/19/03	1462658.4	1462658.4		0	67531	301281.3	368812.6							
3/13/03	1477211.2	1478624.6	2.23	1413	68945	315834.1	384778.8	240	5.5	1.9	2.3	9.6	1.4	RS5
3/26/03	1487952.3	1487952.3		0	68945	325161.8	394106.5							
4/3/03	1492921.1	1494226.5	2.27	1305	70250	330130.6	400380.7							
5/6/03	1509139.0	1510725.0	2.37	1586	71836	345043.1	416879.2	6800	1000	230	310	820	10	T1
5/21/03	1522165.2	1524709.6		2544	74381	356483.3	430863.8							
6/5/03	1536327.1	1536327.1		0	74381	368100.8	442481.3							
7/3/03	1558031.2	1558031.2		0	74381	389804.9	464185.4							
7/17/03	1567315.6	1568875.6	2.56	1560	75941	399089.3	475029.8							
8/13/03	1585901.5	1587475.1	2.41	1574	77514	416115.2	493629.3	310	1.4	<0.5	1	2.9	<0.5	RS5
9/4/03	1601163.7	1602640.5	2.67	1477	78991	429803.8	508794.7							
9/25/03	1614942.0	1614942.0		0	78991	442105.3	521096.2							
10/3/03	1619477.8	1620763.0	2.32	1285	80276	446641.1	526917.2							
10/8/03	1623572.9	1623572.9		0	80276	449451.0	529727.1							
10/14/03	1626700.0	1626700.0		0	80276	452578.1	532854.2							
10/16/03	1627622.0	1627622.0		0	80276	453500.1	533776.2							
10/24/03	1631506.9	1631506.9		0	80276	457385.0	537661.1							
10/30/03	1634530.0	1634530.0		0	80276	460408.1	540684.2							
11/6/03	1637906.5	1637906.5		0	80276	463784.6	544060.7							
11/13/03	1641361.3	1641361.3		0	80276	467239.4	547515.5							
11/20/03	1644688.6	1645991.4		1303	81579	470566.7	552145.6	17000	150	720	240	1800	0.72	RS5
11/30/03	1649967.5	1649967.5		0	81579	474542.8	556121.7							
12/3/03	1649967.4	1649967.4		0	81579	474542.7	556121.6							
12/11/03	1649977.6	1649977.6		0	81579	474552.9	556131.8							
12/18/03	1654385.3	1655688.6		1303	82882	478960.6	561842.8							
12/23/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
12/30/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							

ams per liter (parts per billion)
grams per liter (parts per million)
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
* SAMPLED ON AUGUST 26, 1999

T1 Receptor Trench Well
RS5 Monitor Well RS5 (pumping well)

TABLE 2
WASTEWATER DISCHARGE PERMIT # 5043550 1
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

WASTEWATER SOURCE ID	DATE	METER READING IN GALLONS #35635668 314110	NEW METER IN GALLONS #47083426	GALLONS DISCHARGED BETWEEN VISITS	ACCUMULATIVE GALLONS DISCHARGED	AVERAGE DISCHARGE PER MINUTE IN GALLONS	EPA METHOD 624 BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	7420 LEAD ug/L
F1 (PSP No. 1)	7/12/01		1228500	4875	137180	0.48	EPA METHOD 8260B				
F1 (PSP No. 1)	7/19/01		1232750.7	4251	141431	0.42	<0.5	<0.5	<0.5	<0.5	
REMOVE PUMP AND DISCONTINUE SEWER DISCHARGE ON July 19, 2001, COMMENCE 1/4LY DISCHARGE											MTBE
F1 (PSP No. 1) 1/4LY SAMPLES	12/18/01			238	141669	5.00	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1) 1/4LY SAMPLES	2/19/02			246	141915	5.00	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	3/21/02		1235760	0	141915	2.00	place pump back into RS-5				
F1 (PSP No. 1)	3/27/02		1243817.8	8058	149973	0.93					
F1 (PSP No. 1)	4/11/02		1259678.6	15861	165833	0.73	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	5/7/02		1283903.1	24225	190058	0.65					
F1 (PSP No. 1)	6/6/02		1308480	24577	214635	0.57					
F1 (PSP No. 1)	7/18/02		1330934.8	22455	237090	0.37					
F1 (PSP No. 1)	8/6/02		1340694.7	9760	246849	0.36	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	9/12/02		1364301.5	23607	270456	0.44	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	10/30/02		1389884.7	25583	296039	0.37					
F1 (PSP No. 1)	11/5/02		1392931	3046	299086	0.35					
F1 (PSP No. 1)	12/12/02		1410216	17285	316371	0.32	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	1/9/03		1431653.1	21437	337808	0.53					
F1 (PSP No. 1)	2/19/03		1462658.4	31005	368813	0.53					
F1 (PSP No. 1)	3/13/03		1478624.6	15966	384779	0.50	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	4/15/03		1496745.6	18121	402900	0.38					
F1 (PSP No. 1)	5/6/03		1516728.7	19983	422883	0.66	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	6/5/03		1536327.1	19598	442482	0.45					
F1 (PSP No. 1)	7/3/03		1558031.2	21704	464186	0.54					
F1 (PSP No. 1)	8/13/03		1587475.1	29444	493630	0.50	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	9/12/03		1607619	20144	513774	0.47					
F1 (PSP No. 1)	10/16/03		1627622	20003	533777	0.41					
F1 (PSP No. 1)	11/20/03		1645991.4	18369	552146	0.36					
F1 (PSP No. 1)	12/18/03		1655688.6	9697	561843	0.24	<0.5	<0.5	<0.5	<0.5	<0.5

< BELOW LABORATORY LOWER DETECTION LIMITS

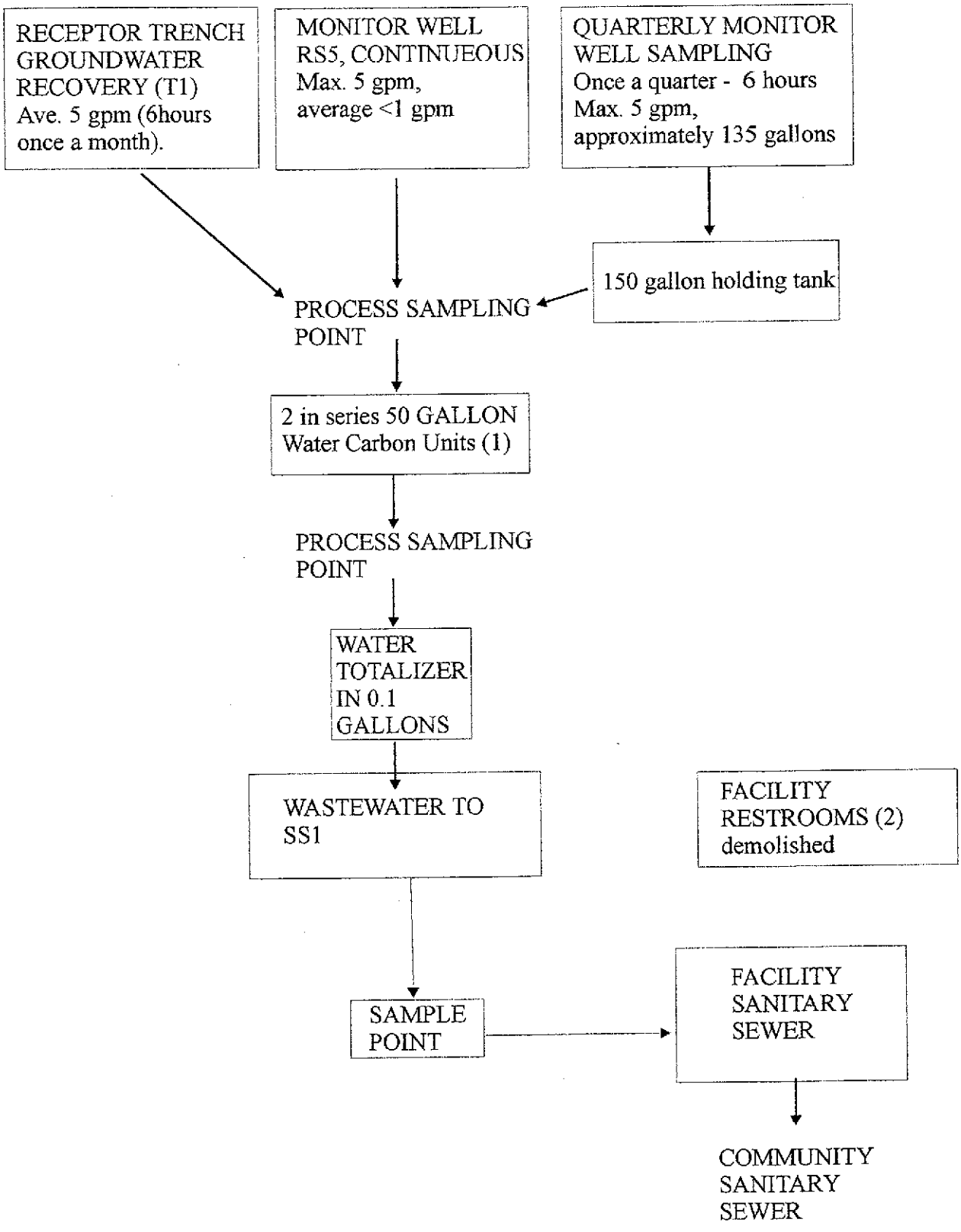
ug/L micrograms per liter (parts per billion)

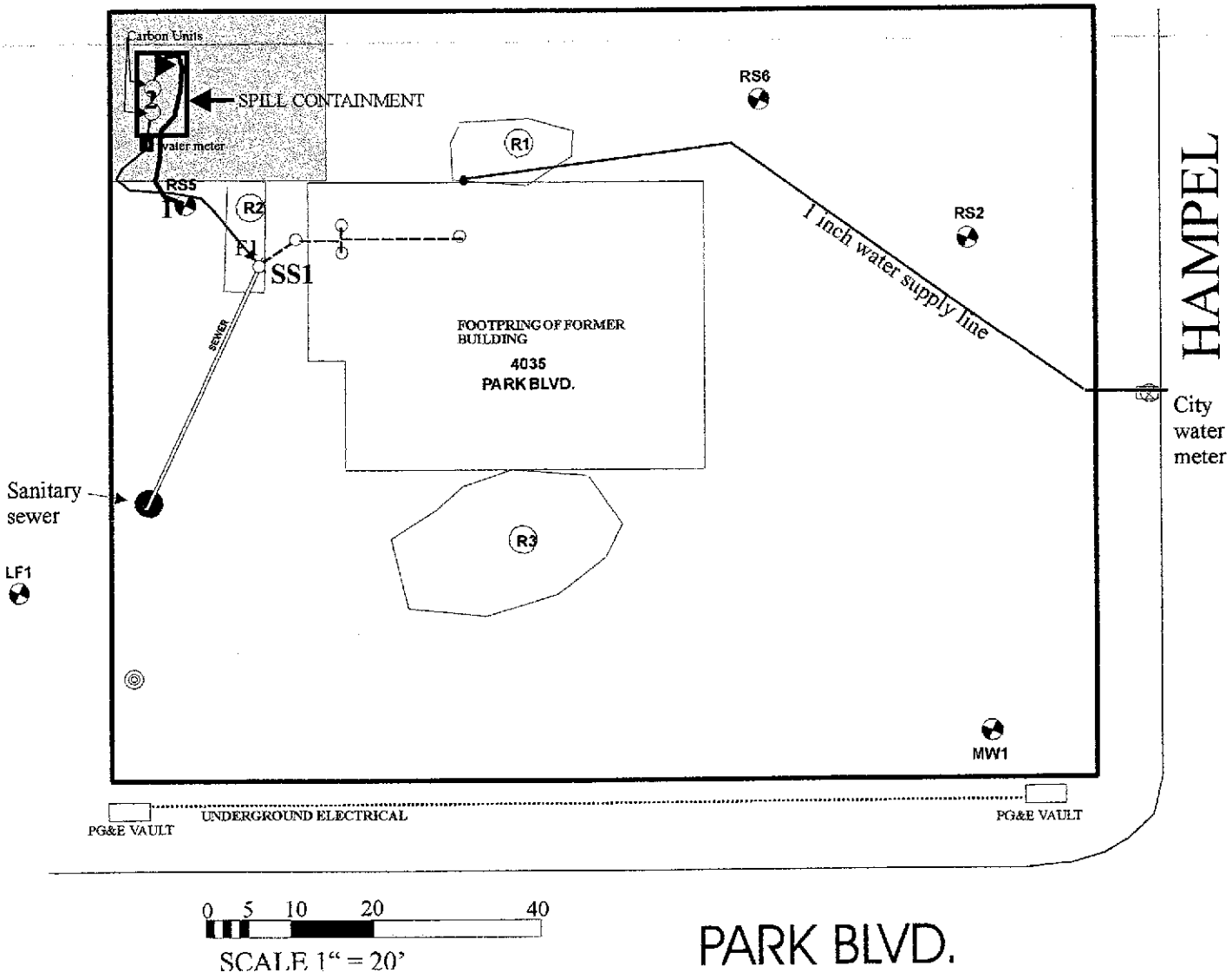
Note: water meter #47083426 did not function during initial test, substitute meter #35635668 used until cleaned and tested. Re-installed January 28, 2000.

Note: water meter difference from 7/19/2001 to 3/21/2002 is from use of meter at other sites to meter discharges when pumping was discontinued on 7/19/2001.

WATER DISCHARGED TO SEWER IS FROM PURGING OF T1, DISCHARGE FROM WELL RS5 AND PURGED WATER FROM 1/4LY SAMPLING.

Figure 1(Revised December 30, 2003)
Activity: GROUNDWATER RECOVERY AND DISCHARGE SYSTEM
FORMER DESERT PETROLEUM SITE DP 793.



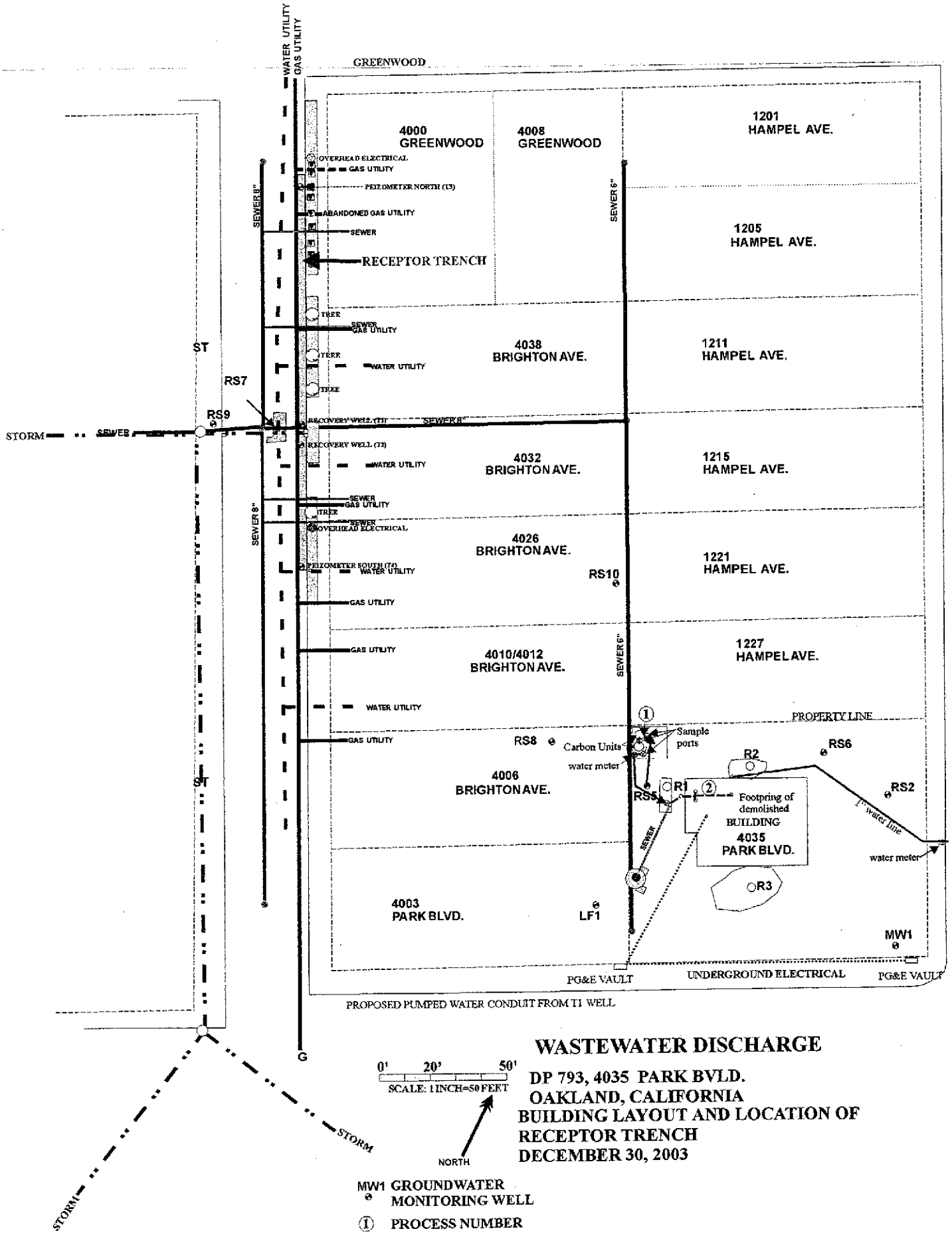


MW1 MONITOR WELL

1 Groundwater recovery well RS5

2 2 in series 55 gallon carbon filters.

FIGURE 2
SEWER DISCHARGE TREATMENT COMPOUND WASTEWAER DISCHARGE PERMIT # 5043550 1



WASTEWATER DISCHARGE

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
BUILDING LAYOUT AND LOCATION OF RECEPTOR TRENCH
DECEMBER 30, 2003

MW1 GROUNDWATER MONITORING WELL

① PROCESS NUMBER

WATER METER

APPENDIX F

October 28, 2003 Revision to May 1, 2003 Workplan

desert petroleum inc.

January 28, 2004

Mr. Scott Seery.
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6783
FACSMILE (510) 337-9335

RE: Revision to 4035 Park Boulevard, Oakland, CA 94602 Work Plan, dated May 1, 2003 to 1) investigate impacted soil contamination both above and below the groundwater table, 2) investigate the vertical extent of contamination in groundwater and 3) update the RBCA Tier II to evaluate remediation options. This revision expands on the bullet items you e-mailed Western Geo-Engineers Friday, October 24, 2003.

Dear Mr. Seery:

I have reviewed the enclosed work plan that I contracted Western Geo-Engineers to prepare and

1. I agree ~~disagree~~ with the scope and findings.

Sincerely,

William Thompson, Desert Petroleum, Inc. 5/24/04 date

-WEGE-

WESTERN
GEO-ENGINEERS
CALIF. CONTRACTOR #513857
REGISTERED GEOLOGISTS

1386 EAST BEAMER STREET
WOODLAND, CA 95776-6003
(530) 668-5300
FAX (530) 662-0273
wege@cal.net

October 28, 2003

Mr. Scott Seery
Alameda County Health Care Services
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
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(510) 567-6783
FACSMILE (510) 337-9335
e-mail sseery@co.alameda.ca.us

RE: Revision to 4035 Park Boulevard, Oakland, CA 94602 Workplan, dated May 1, 2003; 1) investigate impacted soil contamination both above and below the groundwater table, 2) investigate the vertical extent of contamination in groundwater, and 3) update the RBCA Tier II to evaluate remediation options. This revision expands on the bullet items you e-mailed Friday, October 24, 2003.

Dear Mr. Seery:

The following discussion expounds on the e-mailed bullet items presented in you e-mail, dated October 24, 2003.

1. *Review of on-site boring logs failed to reveal a cobbly backfill material that you felt may cause a problem should a GeoProbe be used to complete this phase of work. You mentioned that the R1 and R2 trenches exposed that material. See if you can find some info in your records that might help how where this fill should be anticipated, depths, etc.*

I reviewed the Over-Excavation and Quarterly Ground Water Sample Report, dated November 24, 1995. Appendix E - Field Notes, show the cobble layer beneath the then present station building, exposed by over-excavation at the now present well R3. The depth varied from 1 foot at the southeast corner of the building to 3 feet at the southwest corner of the building. Upon removing the hoist inside the building, the fill rock "cobble" was found to be as deep as 5 feet below the surface. Exploration trench (well R2-west of building) exposed the cobble to the 8.5 foot depth and exploration trench (waste oil UST area, R1-north of building) exposed the cobble to the 7 foot depth. I have included a revised Figure 3 that outlines (heavy dash line) what I feel is the extent of the cobble fill with bold numbers indicating depth to base of fill.

2. *If the 3" ID HSA is determined to be the drilling method of choice (based on the presence of the noted cobbly fill), please provide an SOP for the methodology.*

STANDARD OPERATING PROCEDURES (SOP)

Conventional Hollow Stem Auger with - Hydropunch

Using a truck mounted drilling rig, eight inch hollow stem augers would be used to advance the boring past the anticipated surface fill (cobble zone) as outlined on Figure 3. Once past the cobble zone, 3 inch ID by 3 foot or 5 foot long core barrels would be used to continuously core the boring. Where discrete groundwater samples are to be obtained, the core barrel would be removed and the hydropunch probe would be driven 3 feet past the core interval to obtain a water sample, see section on hydropunch water sampling for further details. Once the water sample had been obtained, coring would proceed past the hydropunch point until the next water sample interval has been achieved. The core barrels are California Split Spoon producing 3 inch diameter cores. The barrels are opened and the entire core is examined for lithology, staining, odor and volatile organic compounds (VOC's) using a 10.6 ev photoionizing detector (PID). Samples to be preserved for laboratory analysis are collected by driving a clean, 1 inch diameter by 3 inch long, aluminum sleeve into the relatively undisturbed soil, completely filling the sleeve of soils to be tested. Placing plastic caps over the sleeve ends then seals the sleeve ends, see sample labeling and preserving for further details.

3. *Provide a soil, sampling SOP for use with the 3" ID HSA, and/or for the other methods contemplated, in case another is chosen ultimately.*

SUBSURFACE INVESTIGATION METHODS

VERTICAL AND LATERAL EXTENT DOCUMENTATION SAMPLING PROCEDURES

Drilling and Sampling Methods and Procedures

To obtain discrete groundwater samples from different water zones (elevations) four methods of drilling/probing were found to be acceptable. All four methods use the "hydropunch" method for obtaining water samples;

1. Conventional hollow stem auger drilling method using a three inch ID X three foot long California Split Spoon sampler to core and direct push water sampler, i.e. "Hydropunch" to obtain water samples;
2. Power probe direct push method (PPDPM);
3. Sonic drilling direct push vibrate drilling method using similar direct push water sampling device and
4. Cone Penetrometer testing/sampling using direct push method and hydropunch water sampling procedure to obtain discrete water samples.

Cone Penetrometer Testing (CPT)

Using a 25 ton CPT rig the dead weight of the CPT rig is used to push the cone penetrometer using a hydraulic ram. Soil parameters such as cone bearing, sleeve friction ratio, friction ratio and pore water pressure are measured as the cone penetrometer is advanced. These measurements are sent uphole through the cone rods to the support rig's on-board data acquisition system. All data is processed in the field in real time. The resulting log can then be compared to continuous core borings (used to normalize the CPT and to obtain soil and water samples that will be sited within a couple of feet of selected CPT holes. The CPT holes will indicate subsurface continuity.

Using a 25 ton Cone Penetrometer Testing (CPT) rig, direct push rod with core sleeves (acrylic sample tubes) are advanced in four foot intervals adjacent to the CPT hole, producing a 2 inch diameter boring. A sequence of 1-1/2 inch diameter by 4 foot long cores are produced. These cores are used to normalize the CPT log and to obtain soil samples for certified laboratory analysis. Once the interval is reached where water, soil gas, or vacuum measurements are wanted, the hydropunch sampler is used, see below. Once a hydropunch sampling has been performed, that core/boring is terminated and if further (deeper) investigation is warranted, a new probe hole is advanced to the deeper interval. This new hole is required due to the none recoverable drive point, which is left in the bottom of the sampled hole.

Sonic Drilling - Hydropunch

A dual casing drilling system that employs the use of high frequency mechanical vibration to take continuous core samples (acrylic sample tubes) or drives direct push rods. Water samples are obtained using the sonic direct push-sampling probe. This sampling probe is similar to the hydropunch, where a screen is attached to the drive point and once the sample depth has been reached the probe rod is retracted exposing the screen allowing groundwater to infiltrate the sampler. The drive point is recovered with the water sample probe and coring continues on to the next water sample point.

Power probe direct push method - Hydropunch

Using a truck mounted drilling rig, six inch hollow stem augers would be used to advance the boring past the anticipated surface fill (cobble zone) as outlined on Figure 3. Once through the cobble zone dual tube direct push continuous cores would be obtained. The outer tube consists of a 2 3/8" diameter protective casing while the inner core barrel collects cores in 1.5" X 4' acrylic sample tubes. Cores would be obtained from just below the cobble layer (surface - 8 foot depth) to final depth of boring (50 feet below the surface). To obtain water samples, the core sampler is removed. Any groundwater that entered through the outer casing would be removed by bailing and the "hydropunch"

would then be pushed three feet past the cored interval to obtain the water sample from beneath the 50- foot depth. Other water sample points would be evaluated from the soil core samples and individual probes would be necessary to obtain discrete water samples.

Selection

The CPT and PPDPM, methods would require additional holes to be driven/drilled adjacent to the initial core boring to obtain multiple discrete water samples. The hollow stem auger - continuous core method would produce a large enough core diameter that allows for coring over the drive point(s) left by the hydropunch sampler, thus allowing multiple discrete water sample points from the same boring. The Sonic Drilling method also has a recoverable point. Cost comparison between the Sonic Drilling Method and the Auger Continuous Core method in the past have shown that the Auger method is more cost effective. The Auger core method would save time and money and would provide suitable cores to examine the subsurface conditions and obtain discrete soil samples.

4.Please clarify expected depths of each boring.... We expect that is should be a 50' depth.

Examination of soil sample results from past assessments indicate that RS-5 bottom soil sample obtained at the 40 foot depth contained trace amounts of gasoline range hydrocarbons. It is proposed that the initial borings/cores (C1 through C5) be performed to the 50 foot depth. Based on field evaluations the remaining cores would be performed at somewhat of a lesser depth. Field evaluations will be evidence of staining, odor and PID response.

Once a boring/core has been completed, it will be tremie grouted with a 5% bentonite neat cement mix.

5. *Please clarify protocol for determining where soil samples would be retained for chemical analyses)e..g, every 5' advanced, changes in lithologies, areas of evident impacts, etc.)*

Once the selected drilling method has advanced past the cobble/fill, continuous cores will be obtained. If acrylic liners are used to contain the cored interval, and inspection of the materials looking through the liner will be attempted, if no obvious staining, lithology change are noted the bottom 4 inches of the core will be sawed off, screened with a PID, capped, labeled and preserved on ice for retention for probable laboratory analysis.

If the 3" ID split spoon sampler is used, the core barrel is placed horizontally, so as the core can be exposed without any spillage, the upper split is removed and the entire core is examined with the PID and for evidence of lithology changes and hydrocarbon impacts. The 6 inch length of the core that exhibits the highest PID response, will be collected by driving a clean 1" diameter X 3" length aluminum sleeve horizontally through the middle of the core, capping the ends with plastic end caps labeled and preserved on ice for

retention for probable laboratory analysis. If the same core segment shows a change in lithology that is independent of the high PID response and/or visual hydrocarbon impacted zone(s) these will also be retained for probable laboratory analysis. At the minimum, one soil sample will be obtained from each cored section, (3 or 5 foot length).

6. *Please clarify how depth discrete GW sampling will be accomplished while ensuring complete isolation of each sampling interval to prevent cross contamination from "dirty" zones into "clean" zones.*

Hydropunch Water Sampling Method

The boring or direct push probe hole is advanced to within three feet of the interval for water sampling. The drilling assembly is removed. Any water that has entered the outer drilling assembly (augers, outer tube) is removed by bailing. The hydropunch is attached to drill rod that will push the hydropunch to the desired depth to be sampled, at a minimum of three feet past the core hole. The hyropunch is connected to the drive point. Once the sample depth has been achieved, the drive rods (1.75 inch diameter hollow rods) are retracted, exposing the filter screen, thus allowing for groundwater infiltration. A small diameter bailer is then used to collect groundwater samples through the hollow rod. The drive point is left in the hole as the hydropunch screen/sample assembly is removed. To insure against vertical leakage, the core is advanced at least five feet past the depth of the last hydropunch water sample. If CPT or PPDPM is used a new hole is driven to within three feet of the desired water sample point and the above procedures are again employed. If CPT or PPDPM are the methods chosen, the original hole is cored the entire depth (i.e. 50 feet) prior to obtaining the vertical extent water sample. After examination of the core is completed additional water sample points are determined and individual probe holes are performed to each of the sample depths.

Labeling and Preservation of Soil and Water Samples

All samples collected will be labeled with the following information:

Site location
Sample ID#
Date and Time sample was obtained
Samplers Name
Preservative Used
Laboratory Method(s) to be used
Analytes to be tested.

Preservation of soil samples

Collect in clean aluminum sleeve completely filling the sleeve to void any headspace or sawing off section of acrylic liner containing portion of soil to be tested.
Capping the sleeve ends with clean plastic end caps
Placing labeled, capped sleeve into ziplock baggie
Placing ziplock baggie containing soil sample into an ice chest containing ice.

Preservation of water samples

Collect water using clean bailer
Slowly decanting, with no headspace, collected water into 3 40 ml VOA vials with HCl preservative
Capping VOA vials with teflon septum plastic caps making sure no air bubbles are contained in the sealed vial.
Placing the labeled VOAs into a ziplock baggie
Placing the ziplock baggie containing the 3 VOAs into an ice chest containing ice.

Sample Point Siting Determination

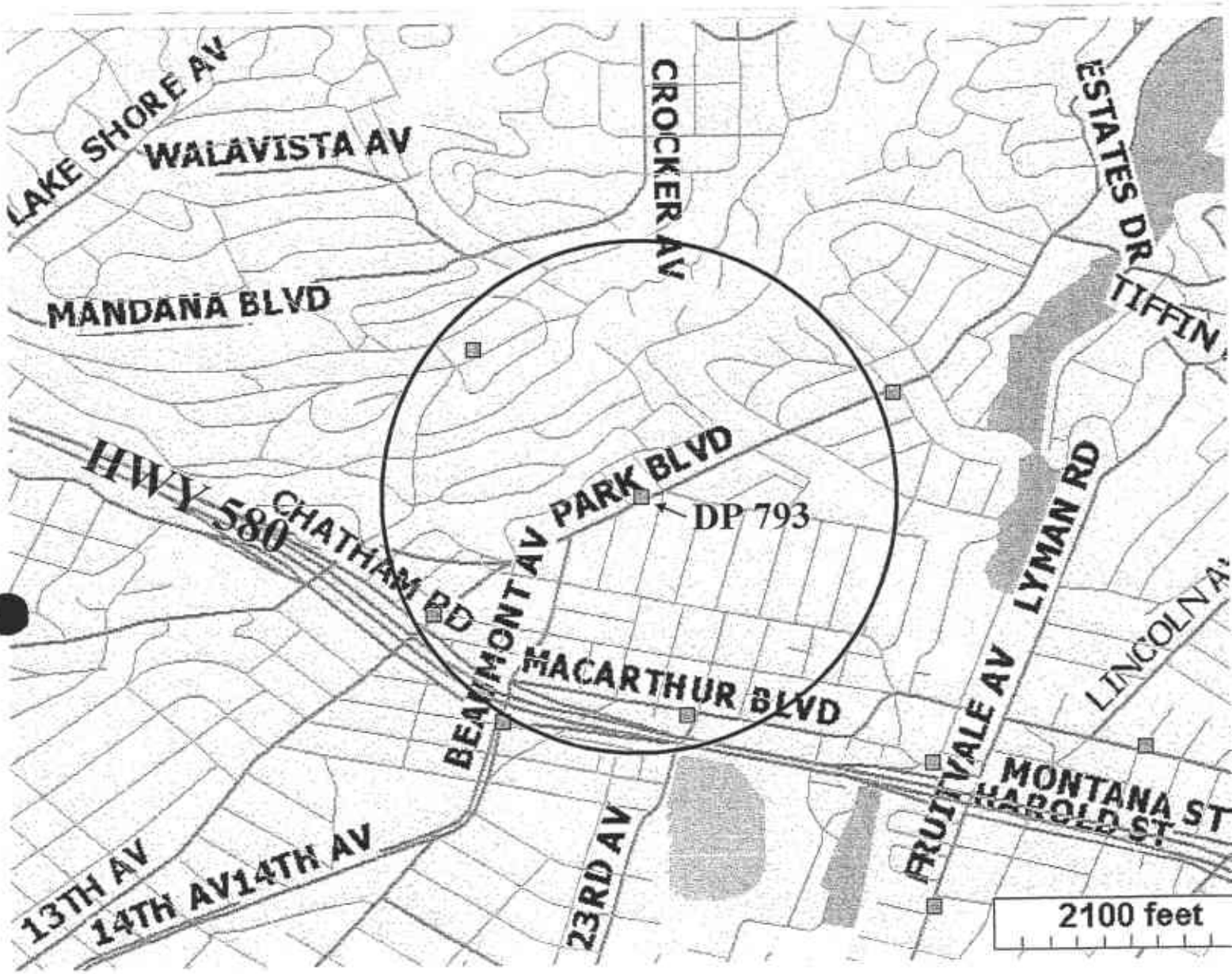
The property structures have been demolished to allow for the construction of residential buildings on this property. To evaluate the best means to further the remediation of gasoline contaminants associated with this site and the risk these residual soil and groundwater contaminantes may have on the future development of this property, soil and groundwater samples are necessary. Figure 3 shows the locations of the former gasoline station building, the areas that were over-excavated (removing the majority of gasoline contaminated soils), the locations of the groundwater monitoring wells and the proposed building locations. Test holes for obtaining soil and groundwater samples will be placed at approximately 15 foot spacing in the northwest corner of the lot.

If you should have any questions concerning the above procedures please feel free to call me at (530) 668-5300.

Sincerely yours,

George L Converse
Project Geologist

Cc: Mr. Bill Thompson, Desert Petroleum, Inc.
Mr. Kin Man Li, property owner
Mr. Leroy Griffin, Oakland Fire Dept.



N
W E
S

LUST SITES

WELLS

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

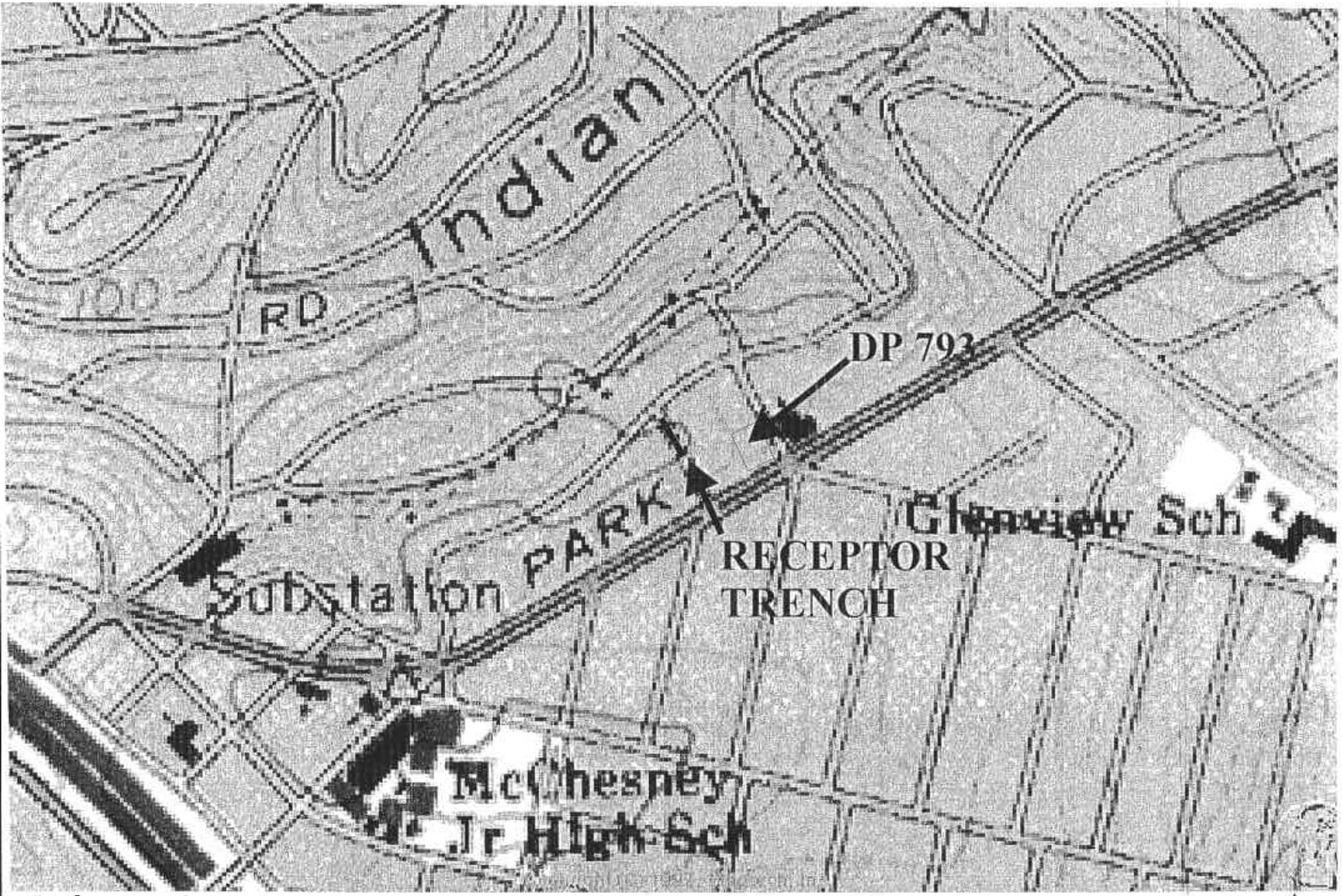
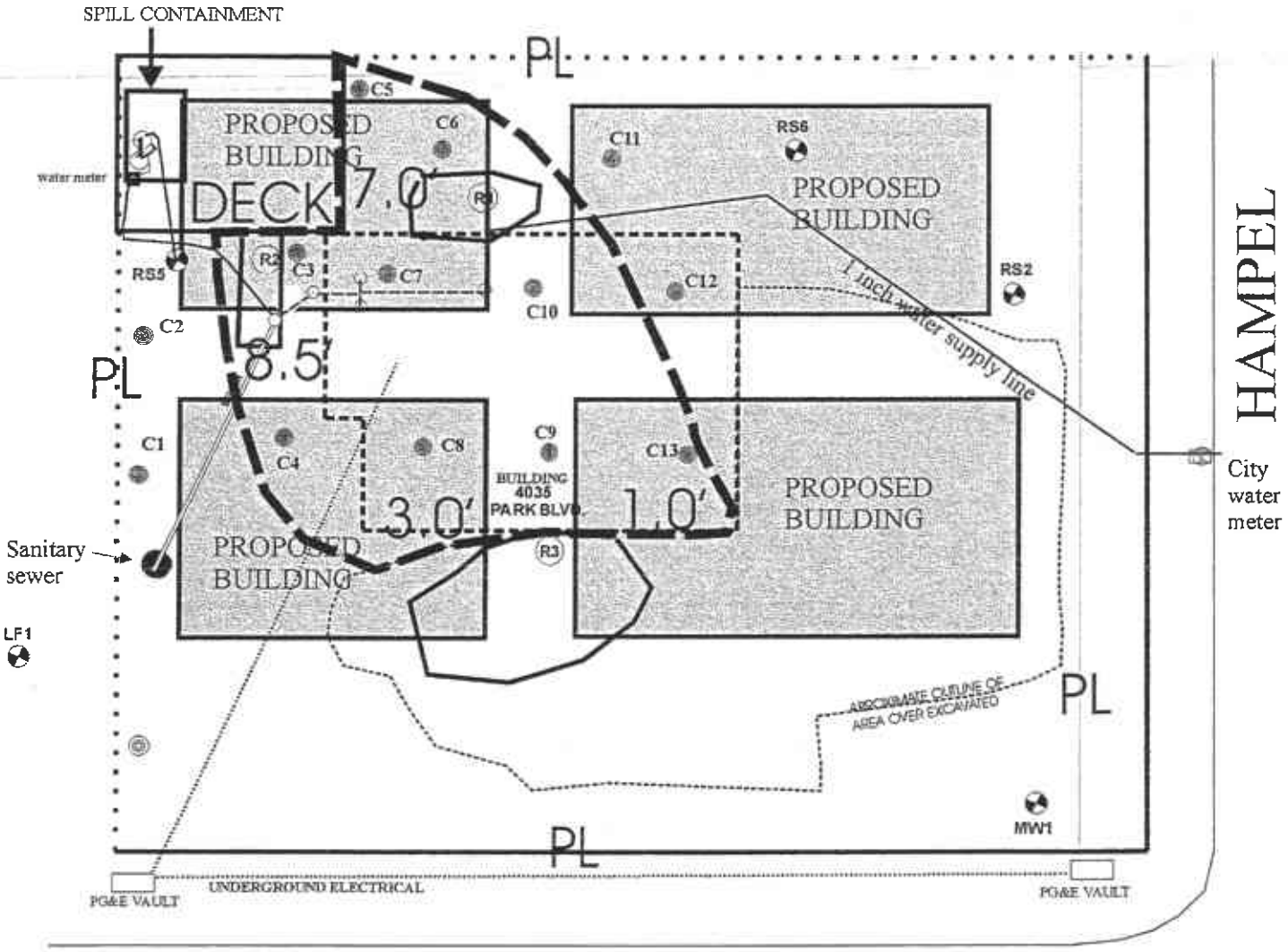


FIGURE 2

PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP



OUTLINE AREA OF COBBLE FILL

7.0' DEPTH TO BASE OF COBBLE FILL

MW1 MONITOR WELL

2 in series 55 gallon carbon filters.

C1 - C13 Proposed locations for continuous core borings.

FIGURE 3- PROPOSED HOUSES SEWER DISCHARGE TREATMENT COMPOUND WASTEWAER DISCHARGE PERMIT # 5043550 1

(Revised 10/27/03)

NOTE: THE PROPOSED SOIL/WATER SAMPLE LOCATIONS ARE APPROXIMATELY ON 15 FOOT SPACINGS THAT WOULD ALLOW FOR THE COLLECTION OF SOIL AND GROUNDWATER SAMPLES TO PERFORM A DETAILED RISK ASSESSMENT OF THE AREAS PROJECTED FOR FUTURE HOME SITES. THE 15 FOOT SPACING WOULD HELP IN EVALUATING IF AND WHAT AMOUNTS OF CONTAMINATED SOILS WOULD NEED TO BE EXCAVATED AND WOULD ADD TO THE ASSESSMENT OF WHERE AND HOW THE ORIGINAL PETROLEUM RELEASE LEFT THE SITE AND ENTERED THE SEWER AND BACKYARDS OF ADJACENT PROPERTIES. DRILLING METHODS; SINCE THERE IS A COBBLE BACKFILL, DIRECT PUSH W/AUGER CAPABILITIES METHODS MAY BE NECESSARY TO PENETRATE TO THE DESIRED DEPTHS.

George Converse

From: "Seery, Scott, Env. Health" <sseery@co.alameda.ca.us>
To: "'George Converse'" <wege@cal.net>
Sent: Friday, October 24, 2003 2:43 PM
Subject: RE: 4035 Park Blvd.

George

This previous e-mail was "frozen" for some while as I tried to transmit it. When it finally was freed up, it was sent incomplete. This one is the complete version. Please note that an additional item is added to the bottom.

Scott

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Hi George

Briefly, here are a few bullet items to expound on and clarify the WEGE work plan for the onsite assessment work in prep to redevelop the property.

1. Review of on-site boring logs failed to reveal a cobbly backfill material that you felt may cause a problem should a GeoProbe be used to complete this phase of work. You mentioned that the R1 and R2 trenches exposed that material. See if you can find some info in your records that might help show where this fill should be anticipated, depths, etc..
2. If the 3" ID HSA is determined to be the drilling method of choice (based on the presence of the noted cobbly fill), please provide an SOP for this methodology.
3. Provide a soil, sampling SOP for use with the 3" ID HSA, and/or for the other methods contemplated, in case another is chosen ultimately.
4. Please clarify expected depths of each boring.... we expect that it should be a 50' depth.
5. Please clarify protocol for determining where soil samples would be retained for chemical analyses (e..g, every 5' advanced, changes in lithologies, areas of evident impacts, etc.)
6. Please clarify how depth discrete GW sampling will be accomplished while ensuring complete isolation of each sampling interval to prevent cross contamination from "dirty" zones into "clean" zones.

Thanks!

Scott