SECOND 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

July 9, 2003

BY

-WEGE-
WESTERN GEO-ENGINEERS
1386 E. BEAMER STREET
WOODLAND, CALIFORNIA 95776
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Mr. Bill Thompson
Desert Petroleum
P.O. Box 1601
Oxnard, California 93032
(805) 644-6784 FAX (805) 654-0720

July 9, 2003

Dear Mr. Thompson:

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

1.0 SITE LOCATION AND 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 continuous 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 are 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.

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 Fgiure 2.

4.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES

Groundwater samples were collected on May 6, 2003. Samples were analyzed for Total Petroluem Hydrocabons as gasoline, Benzene, Toluene, Ethylbenzene, Xylenes and Methyl tert-Butal Alcohol (MtBE) 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 May 6, 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 May 6, 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 May 6, 2003, prior to purging the wells for sampling, see Table 1 and Appendix A. On February 15, 2001 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 R3, 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 0.096 feet/linear foot downgradient 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 disappearance of the "cone of influence" out to RS8, generating at RS5. The pump had to be rebuilt and was not effective during this time. Pumping from RS5 has resumed. 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 May 6, 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 6800 ug/L at receptor trench well T1, to below laboratory lower

detection limits of 50 ug/L in wells MW1, RS2, RS6, RS10, R1 and R3 respectively. No free phase product was found in Well RS8 during this quarter.

Benzene concentrations ranged from a maximum of 1000 ug/L in receptor trench well T1 to below the laboratory lower detection limits (0.5 ug/L) at wells MW1, RS2, RS6, RS10, R1 and R3, see Appendix C - Laboratory Report.

Analysis results for Oxygenant Methyl-t-Butyl Ether (MtBE) was below the laboratory lower detection limit in wells MW1, RS2, RS6, RS8, RS10, R1, R2, and R3. The wells located within or near Brighton Street, RS7, RS9 and the trench well T1 contained 4.7, 5.5 and 10 ug/L MtBE respectively, indicating that the MtBE source(s) maybe 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.

Figure 5 (March 13, 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 both in size and concentration when compared to the previous quarterly sampling (March 13, 2002).

TPHg - Figure 5

Total Petroleum Hydrocarbons, gasoline range has a laboratory lower detection limit (LLDL) of 50 ug/L, was detected in wells R2, RS7, RS8, RS9, and T1 ranging from a low of 70 ug/L at R2 to a high of 6800 ug/L at T1 (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, RS7, RS8, RS9 and T1 ranging from a low of 6.7 ug/L at RS8 to a high of 1000 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 RS7, RS8, RS9, and T1, ranging from a low of 15 ug/L at well RS9 to a high of 230 ug/L at well T1.

Ethylbenzene

Ethylbenzene has a LLDL of 0.5 ug/L. The recommended CPHG for Ethylbenzene is 300 ug/L. Ethylbenzene was detected in wells RS7, RS8, RS9 and T1, ranging from a low of 9.2 ug/L at well RS9 to a high of 310 ug/L at well T1.

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, RS7, RS8, RS9 and T1, ranging from a low of 1.3 ug/L at well R2 to a high of 820 ug/L at well T1.

MtBE

MtBE has a LLDL of 0.5 ug/L. The recommended PHG for MtBE is 13 ug/L. MtBE was detected in wells RS7, RS9 and T1, ranging from a low of 4.7 ug/L at well RS7 to a high of 10 ug/L at well T1, 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, with the exception of RS8 all wells display a reduction in concentrations with time for both TPHg and Benzene through March 13, 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 feet. 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 occur since that time, see Table 2.

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 May 5, 2003 370,645 gallons of groundwater have been pumped from RS5 and treated through two in series water carbon units prior to being discharge to 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 water measurements. This created a cone of influence out to offsite wells RS-8 and RS-10, see 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 has been removed and is stored on site in a 55 gallon 17H drum, see Table 3.

9.0 BIODEGRADATION OF HYDROCARBONS

During the December 18, 2001 sampling of wells, field measurements were obtained to determine the availability of electron receptors to aid in the natural attenuation of the hydrocarbon plume. Along with pH, temperature and electrical conductivity, dissolved oxygen, nitrate, sulfate and ferrous iron were also measured. Water samples were obtained after the wells were purged and allowed to recovery and analyzed in the filed using a Hach DR/2000 Spectrophotometer. The following methods were used:

Dissolved Oxygen, high range (0 to 13 mg/L O_2) - Method 8166 for water and wastewater.
Nitrate, high range (0 to 30 mg/L NO_3) - Method 8039 for water, wastewater and seawater.
Sulfate, (0 to 70 mg/L SO_4) - Method 8051 for water and wastewater.
Ferrous Iron, (0 to 3.00 mg/L Fe_2) - Method 8146 for water, wastewater and seawater.

Table 4 represents the results of electron acceptor field analysis obtained December 18, 2001 compared to results obtained August 26, 1999.

9.1 Dissolved Oxygen

Readings for dissolved oxygen obtained on August 26, 1999, prior to pumping the receptor trench and RS5, indicated two areas of oxygen depletion (<1 mg/L), the entire north half of the site (4035 Park Avenue) at wells RS2, RS5, RS6, R1 and R2 and the area excavated for the receptor trench along the eastern curb of Brighton Avenue, well RS-7 and T1. Readings obtained during the December 18, 2001 monitoring round show that dissolved oxygen has increased substantially and even exceeds 5 mg/L in the over-excavated area on site. The lowest Dissolved Oxygen level encountered is associated with well RS5 at 1.4 mg/L, compared to 0.7 mg/L at RS5 in August 1999. All other dissolved oxygen measurements were at 2.5 mg/L or greater, see Table 4.

9.2 Sulfate

Comparing sulfate measurements obtained in August 1999 to the December 2001 measurements, the sulfate has been depleted at the receptor trench and beneath Brighton Avenue, but is being replenished at well location RS8.

9.3 Nitrate

Comparing nitrate measurements obtained in August 1999 to the December 2001 measurements, the nitrate is being replenished all along the petroleum plume area.

9.4 Ferrous Iron

The measurements obtained in August 1999 compared to the December 2001 measurements indicate that ferrous iron is oxidized, as the site becomes more aerobic.

10.0 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, May 6, 2003 shows continue decrease in hydrocarbons upgradient, at the site, but an increase in hydrocarbon concentrations downgradient of the site at wells RS8 and RS9. The most down gradient well, RS9 contains low levels of gasoline range hydrocarbons; 910 ug/L TPHg, 72 ug/L Benzene, 15 ug/L Toluene, 9.2 ug/L Ethylbenzene, 26 ug/L Xylenes and 5.5 ug/L MtBE.

Previous sampling, September 2, 1999, showed that aerobic bacteria (hydrocarbon degraders) exist in the groundwater associated with the hydrocarbon plume. 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 to 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 for review by Alameda County Health at this time.

11.0 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.

- Perform 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.

12.0 LIMITATIONS

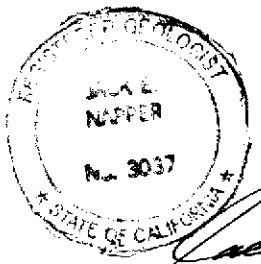
This report is based upon the following:

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 #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)	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-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	****

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)	(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	****

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

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL		TPH-G (UG/L)	BENZENE (UG/L) (1)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
(CALIFORNIA PUBLIC HEALTH GOAL)											
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							

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)	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	****

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

ID#	(All concentrations in parts per billion (ug/L, ppb)) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	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)	(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	****

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)	
(CALIFORNIA PUBLIC HEALTH GOAL)		(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)				(1)	(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	1100.00	14000	2500	12000	<50	****
RS-8	5/6/03	214.67	5.35	209.32	1600	6.70	46	21	170	<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)	(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	****

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

(All concentrations in parts per billion [ug/L, ppb])
(AMSL = Above mean sea level)

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)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(CALIFORNIA PUBLIC HEALTH GOAL)											
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	****

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

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L) (1)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(CALIFORNIA PUBLIC HEALTH GOAL)											
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	****

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)	(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	****

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

ID#	(All concentrations in parts per billion (ug/L, ppb)) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L) (1)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)	
(CALIFORNIA PUBLIC HEALTH GOAL)											
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	****

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

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	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)	(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	****

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 TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	Sample Location
					0									
3/21/02	1235760.0	1235760.0		0	62995	78919.3	141914.2	set pump into RS5, restart pumping from RS-5						
3/27/02	1243817.8	1243817.8		0	62995	86977.1	149972.0							
4/11/02	1259678.6	1259678.6		0	62995	102837.9	165832.8							
5/7/02	1283903.1	1283903.1	2.22	132	63127	126930.4	190057.3	41000	9200	910	2000	6200	62	T1
6/6/02	1308480.0	1308480.0		0	63127	151507.3	214634.2							
7/18/02	1330934.8	1330934.8		0	63127	173962.1	237089.0							
8/6/02	1340694.7	1340694.7		0	63127	183722.0	246848.9	28000	5500	240	1300	2600	32	T1
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	1406784.2	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
6/5/03	1536327.1	1536327.1		0	71836	370645.2	442481.3							

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

TABLE 3
Free Product Recovery
Desert Petroleum StationDP793
4035 Park Blvd., Oakland, Califoma

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)	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)
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	7.83	<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		0.056	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					
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					

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)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: CARBON DI OXIDE CO2 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: METHANE CH4 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
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	202.36	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
< below laboratory lower detection limits.
CFU/ML colony forming units per millAMSL ABOVE MEAN SEA LEVEL

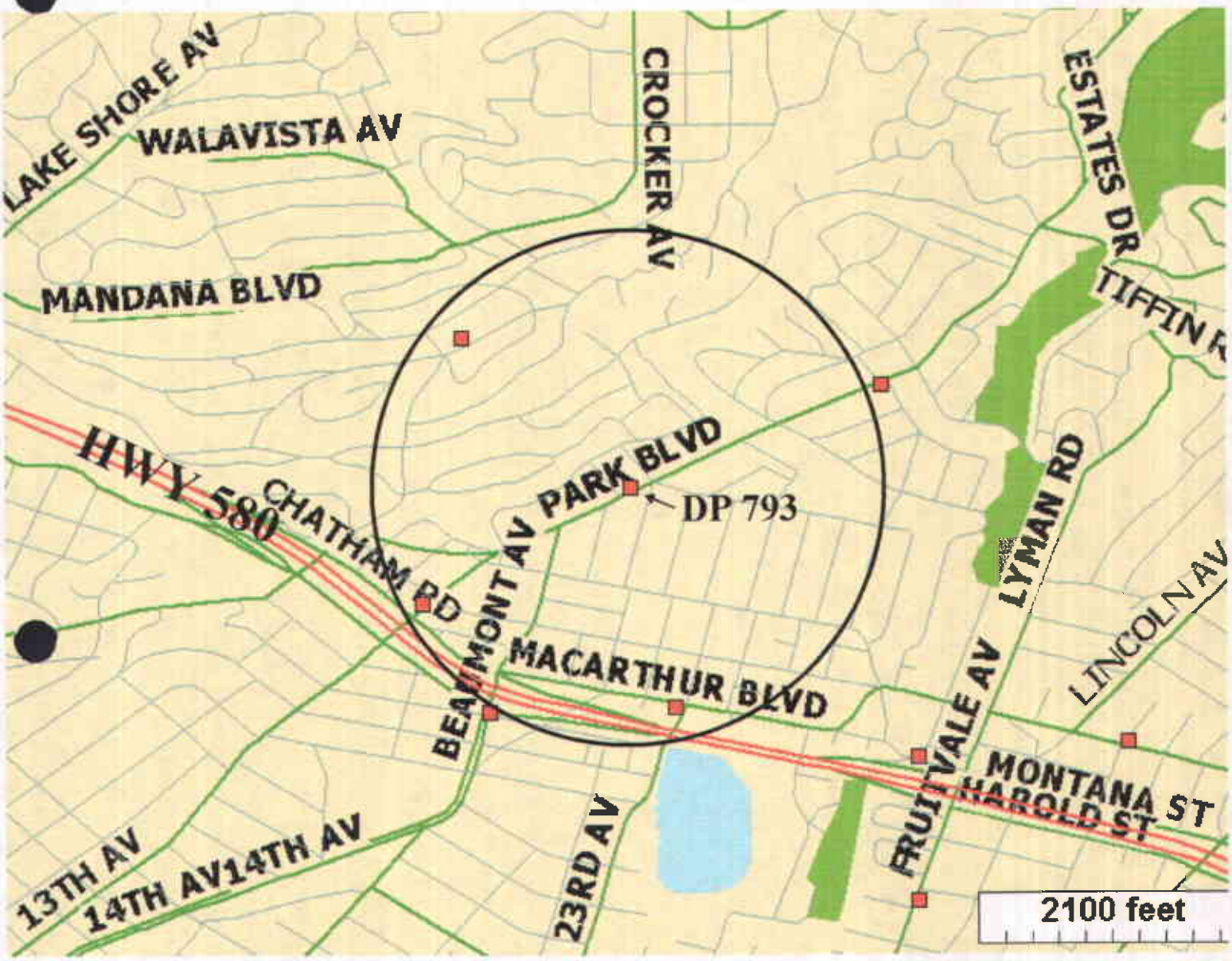


FIGURE 1
GEOTRACKER
AREA WELL & LUST MAP
DP 793
4035 PARK BLVD.
OAKLAND, CA

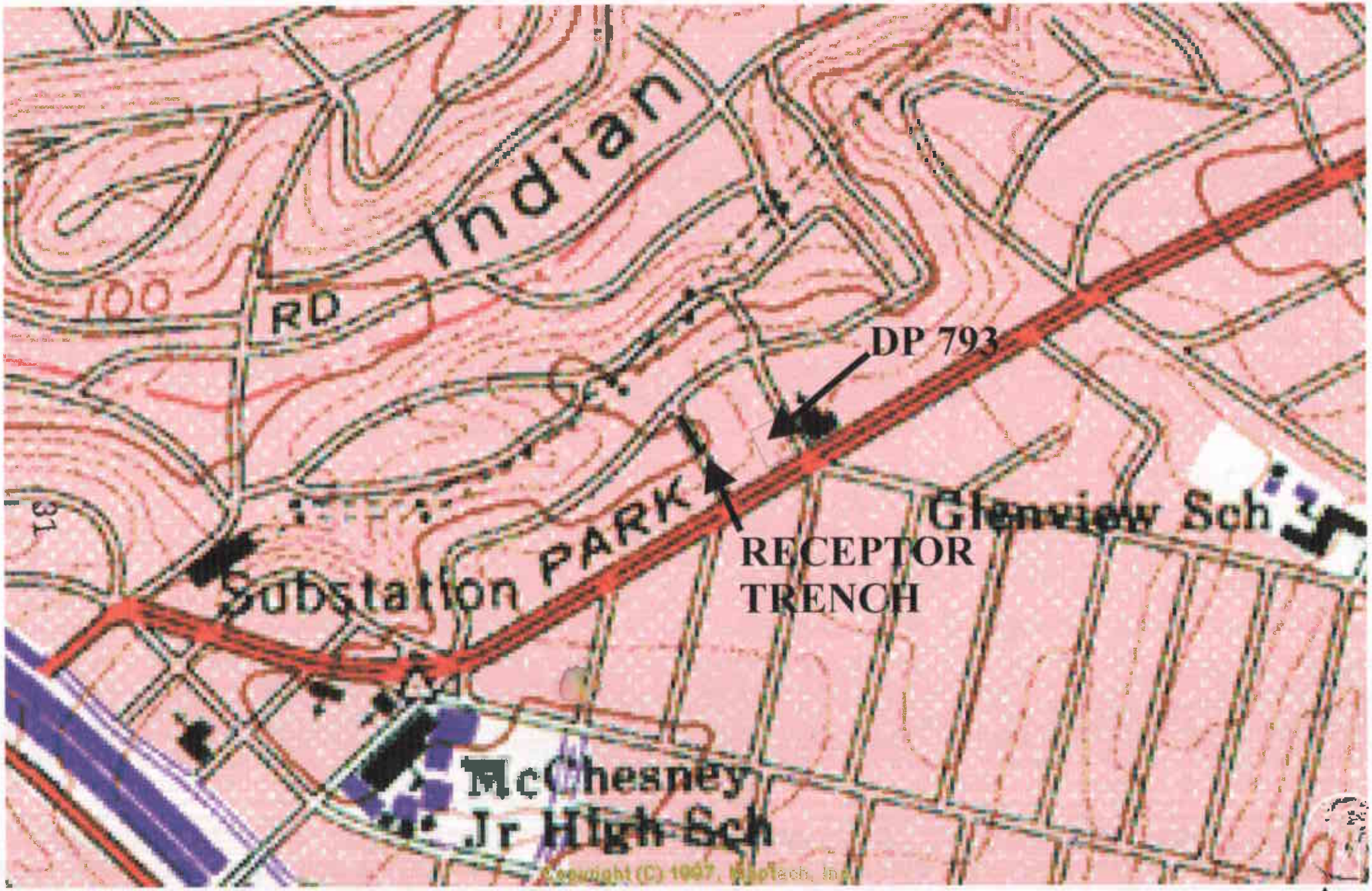


FIGURE 2
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP

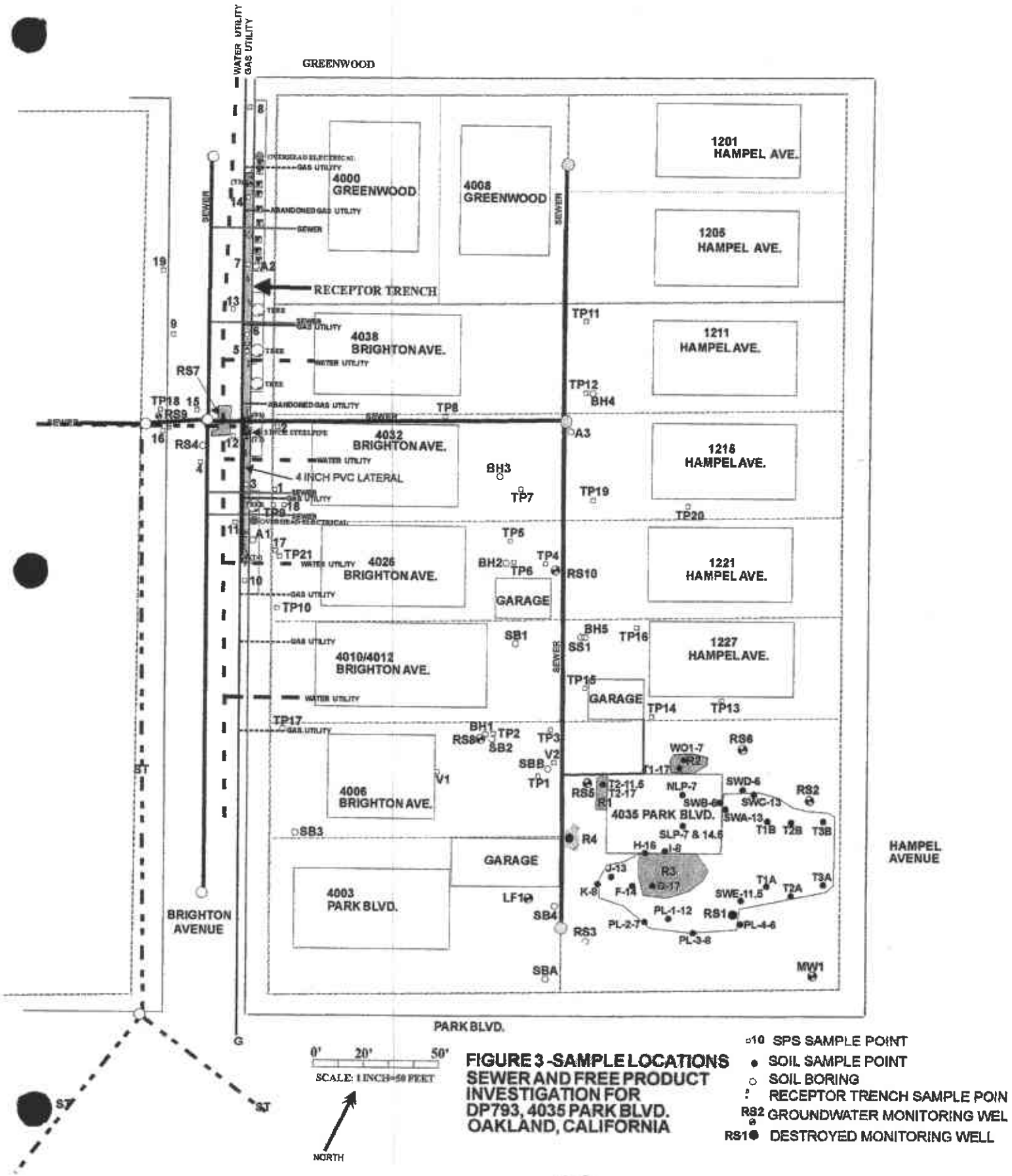


FIGURE 3 -SAMPLE LOCATIONS
SEWER AND FREE PRODUCT INVESTIGATION FOR DP793, 4035 PARK BLVD. OAKLAND, CALIFORNIA

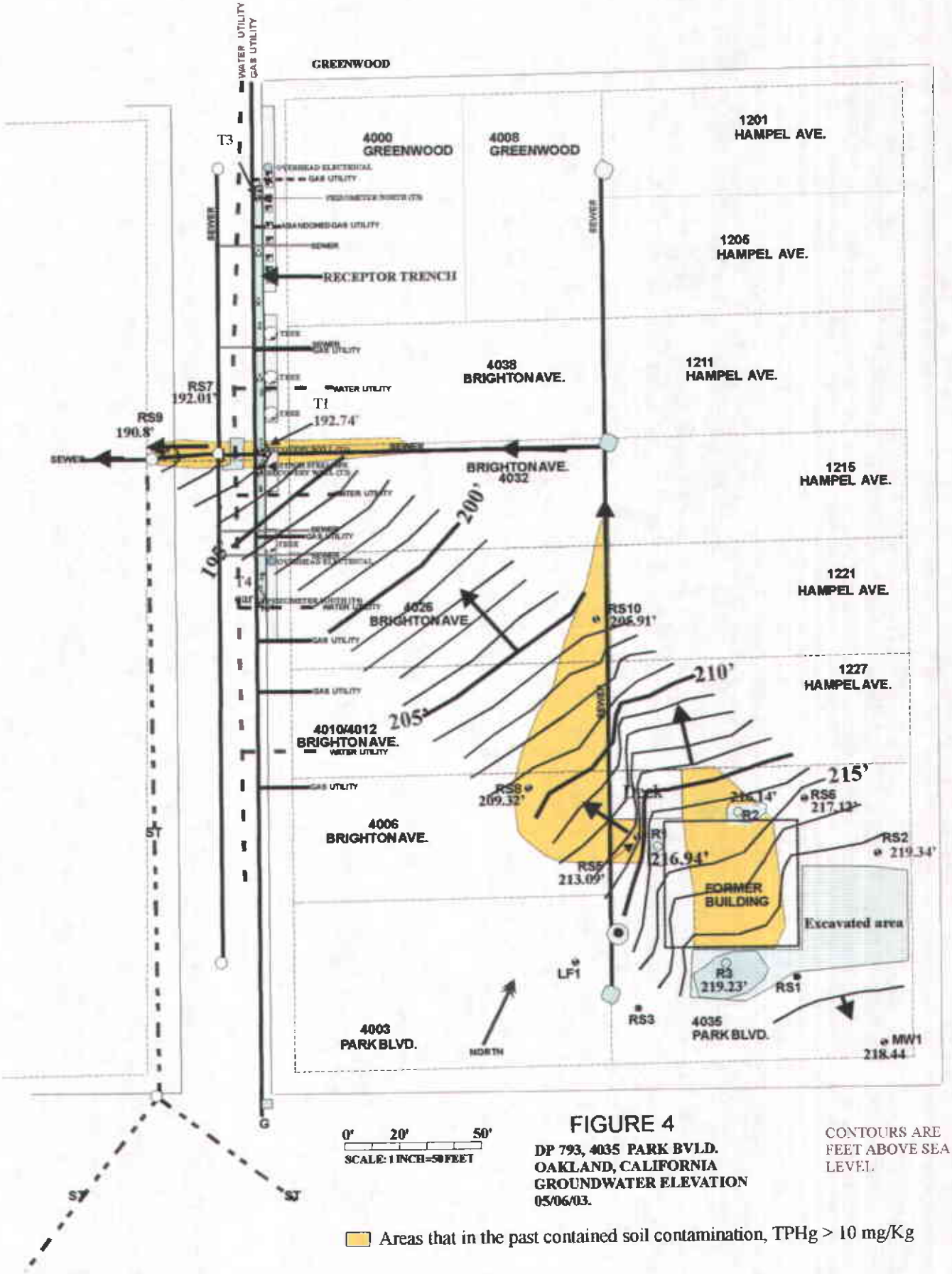


FIGURE 4

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION
05/06/03.

CONTOURS ARE FEET ABOVE SEA LEVEL.

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

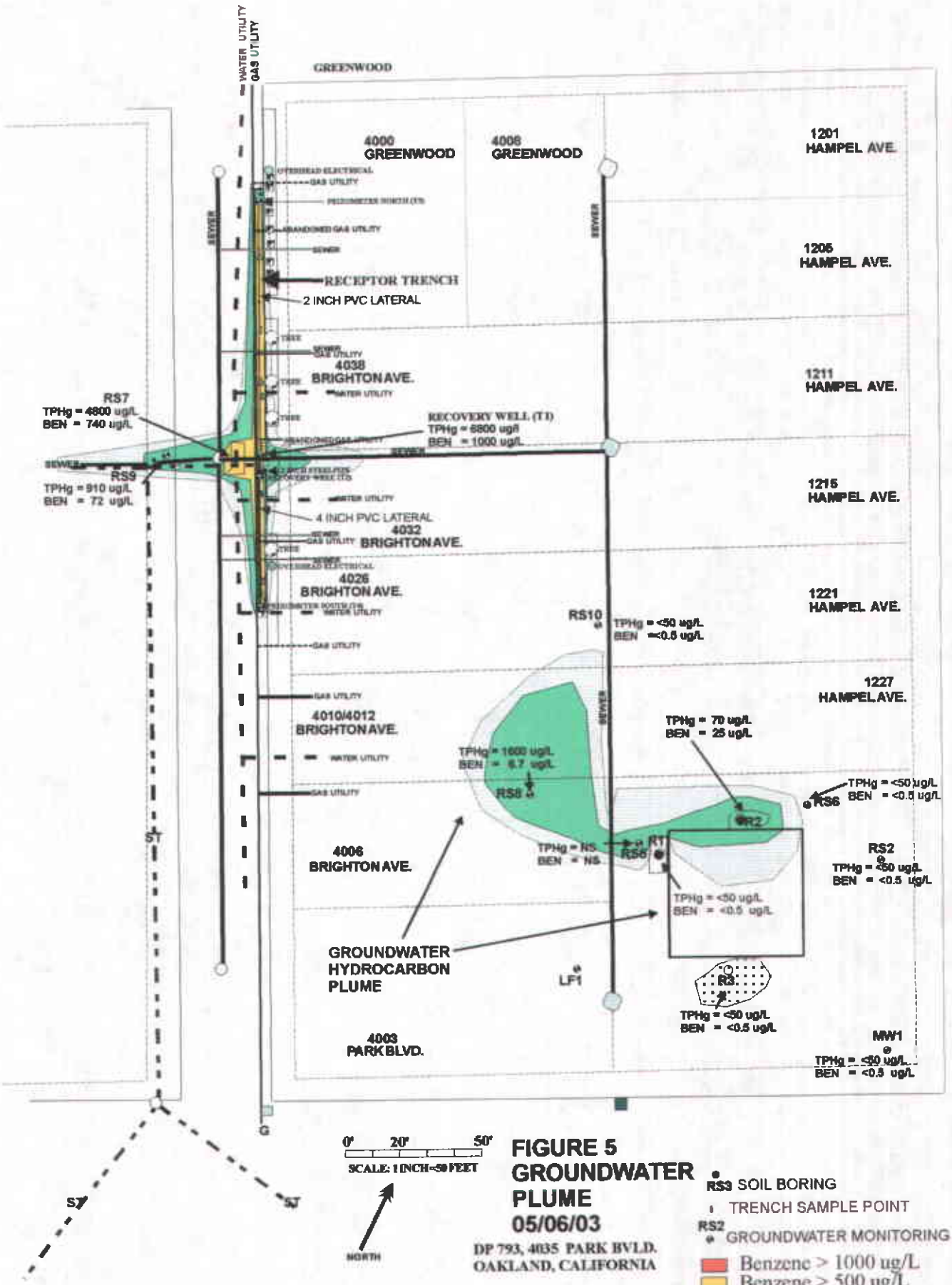


FIGURE 5
GROUNDWATER PLUME
05/06/03

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA

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.

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 4-3-03 REASON FOR SITE VISIT Pump Trench

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.
1300		2.27			

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
15:45	9.43	9.11	20.07	11.90

RS7	RS8	RS9	RS10
—	—	—	—

R1	R2	R3
15.44	13.20	9.03

COMMENTS Grass & Weeds

ELECTRIC METER 16881 End / 16877 Start

WATER METER 14942265 End / 1492921.1 Start / 1305.4

SAMPLE(I ~

SITE MONITORED BY: Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE 6 GALLONS/ 1 MINUTES GALLONS PURGED 1300
T2 FLOW RATE ___ GALLONS/ ___ MINUTES GALLONS PURGED ___

PRESSURE WATER CARBONS #1 7.2 PSI. #2 2.4 PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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 4-10-03

REASON FOR SITE VISIT Week Pull Pump

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	RS8
8:30				

RS7	RS8	RS9	RS10
	5.98		

R1	R2	R3	

COMMENTS Build demolished - Power installed from adjacent property (1227 Hampel St) - pulled pump

ELECTRIC METER NA

WATER METER 1496745.6

SAMPLE(s) NA

SITE MONITORED BY: Broadway

	WASTEWATER INFLUENT	WASTEWATER EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

GALLONS PURGED_____
GALLONS PURGED_____

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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 4-15-03 REASON FOR SITE VISIT Install pump

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
1200	16.95	8.73	15.10	10.86

RS7	RS8	RS9	RS10
	5.91		

R1	R2	R3	
10.46	12.42	8.72	

COMMENTS Sewer drain broken - repaired - Temp pump installed in RS5

ELECTRIC METER ~ WATER METER 1496745.6

SAMPLER ~ SITE MONITORED BY Broadway

	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 3.6 PSI, #2 1.0 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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 4-17-03 REASON FOR SITE VISIT Weekly

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 Pump still tripping on ground fault - Returning it to shop

ELECTRIC METER _____ WATER METER ? _____

SAMPLE(s _____ SITE MONITORED BY: BROADWAY

	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

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 4-24-03

REASON FOR SITE VISIT Pump Trench

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP.	COND.
830		2.36			

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 Pump Failed - aborted pumping

ELECTRIC METER _____

WATER METER 1505641.6

SAMPLE(S) _____

SITE MONITORED BY: Broadway

WASTEWATER

	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

GALLONS PURGED _____
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

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 5-1-02 REASON FOR SITE VISIT Replace pump

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 Installed Rebuilt pump in RS5 and checked operation

ELECTRIC METER ~

WATER METER 1509909.2

SAMPLED ~

SITE MONITORED BY: Broadway

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 5.2 PSI, #2 1.1 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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 5-6-03 REASON FOR SITE VISIT 1/4 Hy ! Pump Trench

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.
800		2.37			
1305		4.18			

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
	11.06	8.05	14.52	10.10

RS7	RS8	RS9	RS10
3.98	5.35	4.83	2.55

R1	R2	R3	
10.75	11.14	8.02	

COMMENTS site OK

ELECTRIC METER ~~~~

WATER METER 1516728.7 1509139.4 1589.3

SAMPLE(s) 1/4/4 + EBMUD

SITE MONITORED BY: Brendan

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

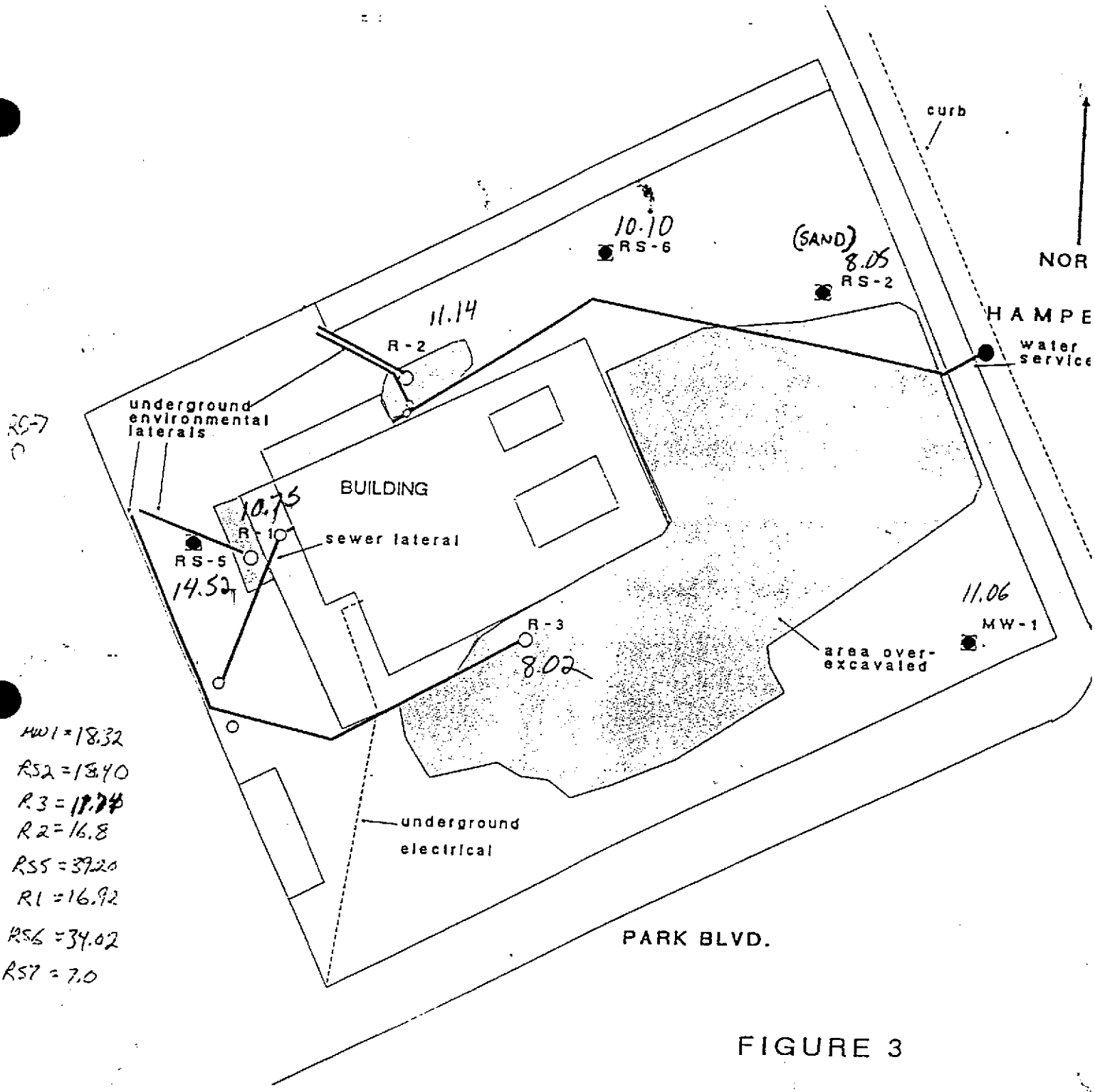
PRESSURE WATER CARBONS #1 ___ PSI, #2 ___ PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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

4 drums



MW1 = 18.32
RS2 = 13.40
R3 = 18.74
R2 = 16.8
RS5 = 39.20
R1 = 16.92
RS6 = 34.02
RS7 = 7.0

FIGURE 3

SITE BASE MAP

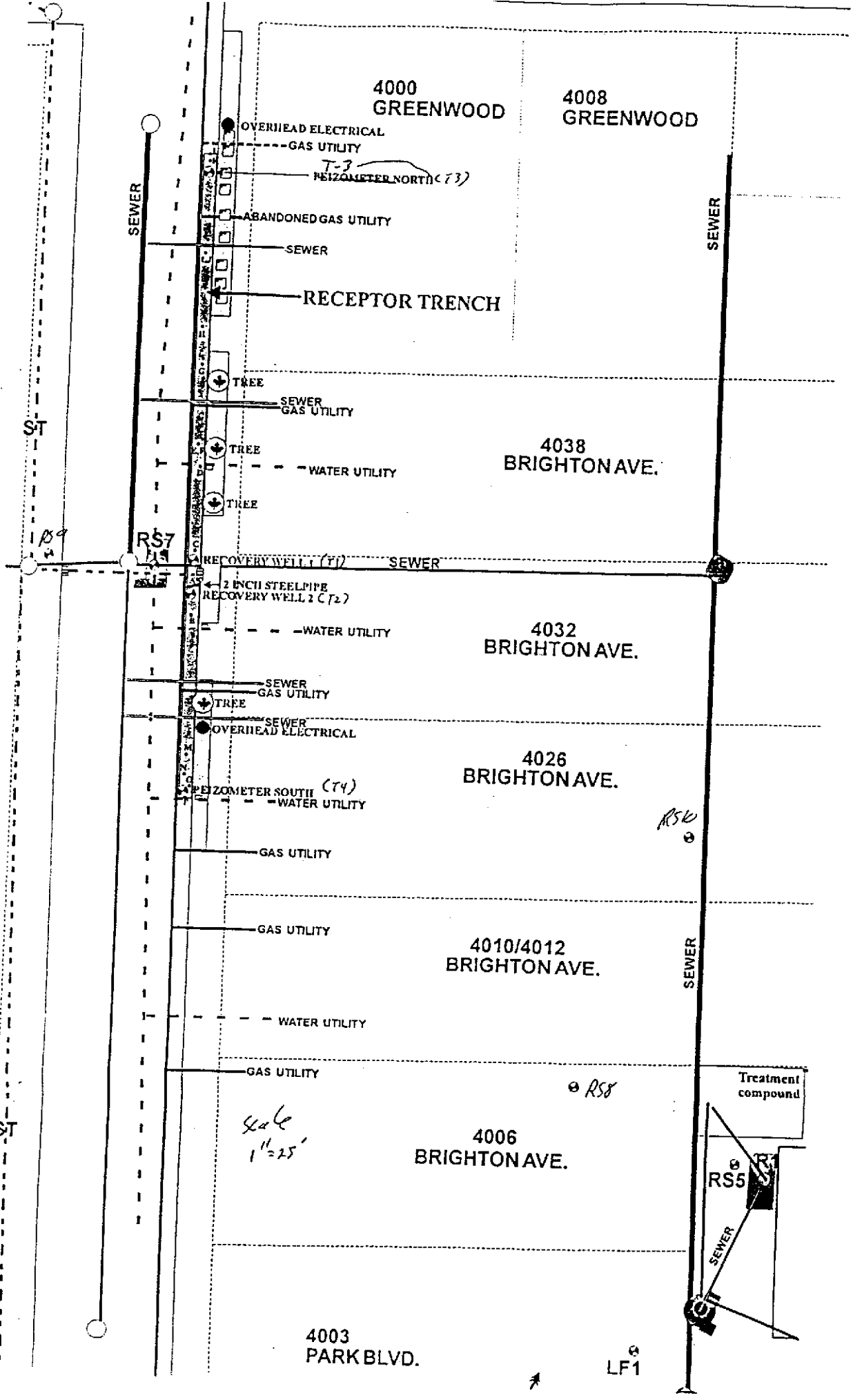
0' 20' 40'

SCALE: 1" = 20'.

DESERT PETROLEUM STATION #793
4035 PARK BLVD.,
OAKLAND, CALIFORNIA 94602

80 + 113 → 24 Hr period

8829


4000
GREENWOOD
4008
GREENWOOD
OVERHEAD ELECTRICAL
GAS UTILITY
T-3
PEIZOMETER NORTH (T3)
ABANDONED GAS UTILITY
SEWER
SEWER
SEWER
RECEPTOR TRENCH
TREE
SEWER
GAS UTILITY
TREE
WATER UTILITY
4038
BRIGHTON AVE.
TREE
ST
RS7
RECOVERY WELL 1 (T1)
SEWER
2 INCH STEELPIPE
RECOVERY WELL 2 (T2)
WATER UTILITY
4032
BRIGHTON AVE.
SEWER
GAS UTILITY
TREE
SEWER
OVERHEAD ELECTRICAL
4026
BRIGHTON AVE.
PEIZOMETER SOUTH (T4)
WATER UTILITY
RS6
GAS UTILITY
GAS UTILITY
4010/4012
BRIGHTON AVE.
SEWER
WATER UTILITY
GAS UTILITY
RS8
Treatment compound
4006
BRIGHTON AVE.
RS5
SEWER
ST
4003
PARK BLVD.
LF1

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 830
WELL MW 1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	11.06 DTB	
FLUID ELEVATION	218.44	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
840	1 Bailer	75.1	9.03	1.15
845	3 gal	74.9	8.82	.91
847	1	74.2	8.64	.89
850	1	73.2	8.52	.88
852	1	71.9	8.34	.70
854	1	72.0	8.20	.61

FINAL VOLUME PURGED	7 gal
TIME SAMPLED	855
SAMPLE ID.	MW-01
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 858
WELL RS-02	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	8.05 DTB	
FLUID ELEVATION	219.34	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
859	1 Bailer	73.6	8.47	1.59
903	12 gal	72.6	8.30	1.57
906	1	71.7	8.05	1.46
909	1	71.8	7.99	1.37
912	1	71.5	7.97	1.11

FINAL VOLUME PURGED	gal
TIME SAMPLED	914
SAMPLE ID.	RS02
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy No Odor

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WELL SAMPLING DATA SHEET

SITE DP 793	DATE 5-6-03	TIME
WELL RS-5	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	14.52 DTB	
FLUID ELEVATION	213.09	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
	1 Bailer			
	gal			

FINAL VOLUME PURGED	gal
TIME SAMPLED	1450
SAMPLE ID.	RS-5
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 920
WELL RS6	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	10.10 DTB	
FLUID ELEVATION	217.12	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
922	1 Bailer	65.5	8.56	.64
932	30 gal	66.9	8.41	.56
1109	1	67.2	8.21	.53
1111	1	67.6	7.85	.53
1113	1	67.9	7.53	.53

30 Gal

FINAL VOLUME PURGED	gal
TIME SAMPLED	1115
SAMPLE ID.	RS6
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Slight odor

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 1244
WELL K57	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	3.98 DTB 7.00	
FLUID ELEVATION	192.01	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1244	1 Bailer	71.8	7.68	.51
1246	4 gal	69.9	7.56	.49
1248	1	68.8	7.57	.43
1250	1	68.2	7.59	.40

FINAL VOLUME PURGED	6 gal
TIME SAMPLED	1252
SAMPLE ID.	K57
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Turbid Some Odor

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 1158
WELL RS 8	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	5.35 DTB	
FLUID ELEVATION	209.32	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1200	1 Bailer	69.1	8.32	.31
1202	3 gal	66.7	8.11	.31
1204	1	65.9	8.05	.31
1206	1	66.0	8.04	.31

FINAL VOLUME PURGED	5 gal
TIME SAMPLED	1208
SAMPLE ID.	RS 8
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer & Turbid Strong Odor

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 1229
WELL RS9	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	4.83 DTB	
FLUID ELEVATION	190.8	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1230	1 Bailer	68.8	7.66	.37
1233	4 gal	69.0	7.50	.34
1236	1	69.3	7.29	.36
1238	1	69.3	7.30	.29

FINAL VOLUME PURGED	6 gal
TIME SAMPLED	1239
SAMPLE ID.	RS9
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1st Bailer Cloudy slight odor

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WELL SAMPLING DATA SHEET

SITE DP 793	DATE 5-6-03	TIME 1214
WELL RS16	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	2.55 DTB	
FLUID ELEVATION	205.91	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1214	1 Bailer	67.3	8.01	.23
1216	4 gal	65.7	7.86	.21
1218	1	64.3	7.73	.18
1220	1	63.8	7.63	.18
1222	1	63.4	7.57	.18

FINAL VOLUME PURGED	7 gal
TIME SAMPLED	1224
SAMPLE ID.	RS10
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Stained Nasty Odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
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WELL SAMPLING DATA SHEET

SITE DP 793	DATE 5-6-03	TIME 1127
WELL R1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	10.75 DTB	
FLUID ELEVATION	216.94	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1130	1 Bailer	69.1	8.56	.35
1137	20 gal	68.5	8.40	.33
1139	1	68.5	8.33	.28
1141	1	68.1	8.31	.28

FINAL VOLUME PURGED	22 gal
TIME SAMPLED	1142
SAMPLE ID.	R1
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy Some Odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE DP 793	DATE 5-6-03	TIME 1022
WELL R-2	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	11.14 DTB	
FLUID ELEVATION	216.14	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1024	1 Bailer	66.0	7.88	.70
1031	20 gal	66.1	7.79	.69
1033	1	66.4	7.74	.69

FINAL VOLUME PURGED	21 gal
TIME SAMPLED	1034
SAMPLE ID.	R2
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Slight odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-6-03	TIME 1100
WELL R3	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	8.02 DTB 11.74	
FLUID ELEVATION	219.23	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1102	1 Bailer	71.8	8.34	.70
1105	7 gal	70.1	8.18	.68
1114	1	69.3	8.08	.60
		68.9	8.05	.53

FINAL VOLUME PURGED	8 gal
TIME SAMPLED	1115
SAMPLE ID.	R3
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

1510?
1509

SITE OP 793	DATE 5-6-03	TIME 1380
WELL +1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	2.37 DTB after Purging Wells	
FLUID ELEVATION	192.74	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1301	1 Bailer	72.0	7.61	.47
1303	gal	72.4	7.59	.47

FINAL VOLUME PURGED	gal
TIME SAMPLED	1304
SAMPLE ID.	+1
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer

1450

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): George [illegible]

Company/Address: WEGE [illegible]

Phone No.: 530-[illegible]

FAX No.: 530 [illegible]

Project Number: [illegible]

P.O. No:

Project Name: [illegible]

Project Address: [illegible]

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address): [illegible]

Sampler Signature: [illegible]

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
Carbon [illegible]	5/4/03	1025	3		✓		✓		✓						✓									✓ (1 wk)	

Relinquished by:	Date	Time	Received by:
[signature]	5/4/03	1605	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	050803	1605	[signature]

Remarks:

Bill to:

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):

Company/Address:

Phone No.: FAX No.:

Project Number: P.O. No:

Project Name:

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:

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-1	5/2/03	955	3		✓		✓		✓						✓															
R-1		1142																												
R-2		1034																												
R-3		1115																												
RS-02		914																												
RS-06		1115																												
RS-07		1341																												
RS-08		1209																												
RS-09		1239																												
RS-10		1224																												

Relinquished by:	Date	Time	Received by:
	5/3/03	1625	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	050503	1625	

Remarks:

Bill to:

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 2 of ___

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): [illegible handwriting]

California EDF Report? [x] Yes [ ] No

Company/Address:

Recommended but not mandatory to complete this section:

Sampling Company Log Code: [illegible handwriting]

Phone No.: [illegible handwriting]

FAX No.:

Global ID:

Project Number:

P.O. No.:

EDF Deliverable To (Email Address):

Project Name: [illegible handwriting]

Sampler Signature: [signature]

Project Address: [illegible handwriting]

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
T1	5/8/03	1304	3					✓		✓			✓							✓												✓	

Relinquished by:	Date	Time	Received by:
[signature]	5/8/03	1625	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	050803	1625	[signature]

Remarks:

Bill to:

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 5-15-03

REASON FOR SITE VISIT Weekly

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 Checked Pump - OK

ELECTRIC METER _____

WATER METER 1518556.9

SAMPLE(s) ~

SITE MONITORED BY: Broadway

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 OK

CONDITION OF COMPOUND COMMENTS OK

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 5-21-03

REASON FOR SITE VISIT Pump Trench

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND.
1400		2.96			
1900		4.53			

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
1432	11.38	8.43	~	12.56

RS7	RS8	RS9	RS10
3.94	6.02	4.7	2.57

R1	R2	R3	
10.56	10.91	8.52	

COMMENTS Pumped Trench

ELECTRIC METER _____

WATER METER 1524709.6
1522165.2
2544

SAMPLE(s) ~

SITE MONITORED BY: Broadway

	WASTEWATER INFLUENT	WASTEWATER EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

GALLONS PURGED_____
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

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 6-1-03

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

WATER METER 153343.0

ELECTRIC METER

SITE MONITORED BY

SAMPLE(s)

TIME
pH
Conductivity
Temperature
PID

WASTEWATER	
INFLUENT	EFFLUENT

PRESSURE WATER CARBONS #1_____PSI, #2_____PSI.

WATER TREATMENT

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

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

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 6-5-07 REASON FOR SITE VISIT weekly check Treatment Syst

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 Not pumping off visit 2:30

WATER METER 1536327.1

ELECTRIC METER _____

SITE MONITORED BY Concord

SAMPLE(: _____

	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 OK mite rust on lids & clamps

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

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 6-12-03 REASON FOR SITE VISIT Weekly

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 Well RS8 - no floating Product

ELECTRIC METER —

WATER METER 1541385.4

SAMPLER ~

SITE MONITORED BY: Brondway

	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 3.6 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

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

REASON FOR SITE VISIT weekly

DATE ~~7-19-03~~ 6-19-03

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	

COMMENTS Not Pumping at VISIT

WATER METER 1,546,439.0

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

ELECTRIC METER________

SITE MONITORED BY:________

SAMPLE(I ________

PRESSURE WATER CARBONS #1______PSI, #2______PSI.

WATER TREATMENT

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

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

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 6-25-03 REASON FOR SITE VISIT Pump Trench

	TRENCH WELL T1				
TIME	PID	DTW	pH	TEMP.	COND.
1200		2.49			
1700		4.22			

	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
1215	11.21	9.1	32.98	[redacted]

RS7	RS8	RS9	RS10
4.04	9.41	4.11	2.63

R1	R2	R3	
16.91	12.4	10.04	

COMMENTS

ELECTRIC METER ____

WATER METER 1552543.5 1550746.9 (1796.6)

SAMPLE(t ~

SITE MONITORED BY: Broadway

WASTEWATER	
INFLUENT	EFFLUENT

TIME
pH
Conductivity
Temperature
PID

WATER TREATMENT

T1 FLOW RATE 5.5 GALLONS/ 1 MINUTES GALLONS PURGED 1796.
T2 FLOW RATE ___ GALLONS/ ___ MINUTES GALLONS PURGED ___

PRESSURE WATER CARBONS #1 9.2 PSI, #2 2.7 PSI,

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

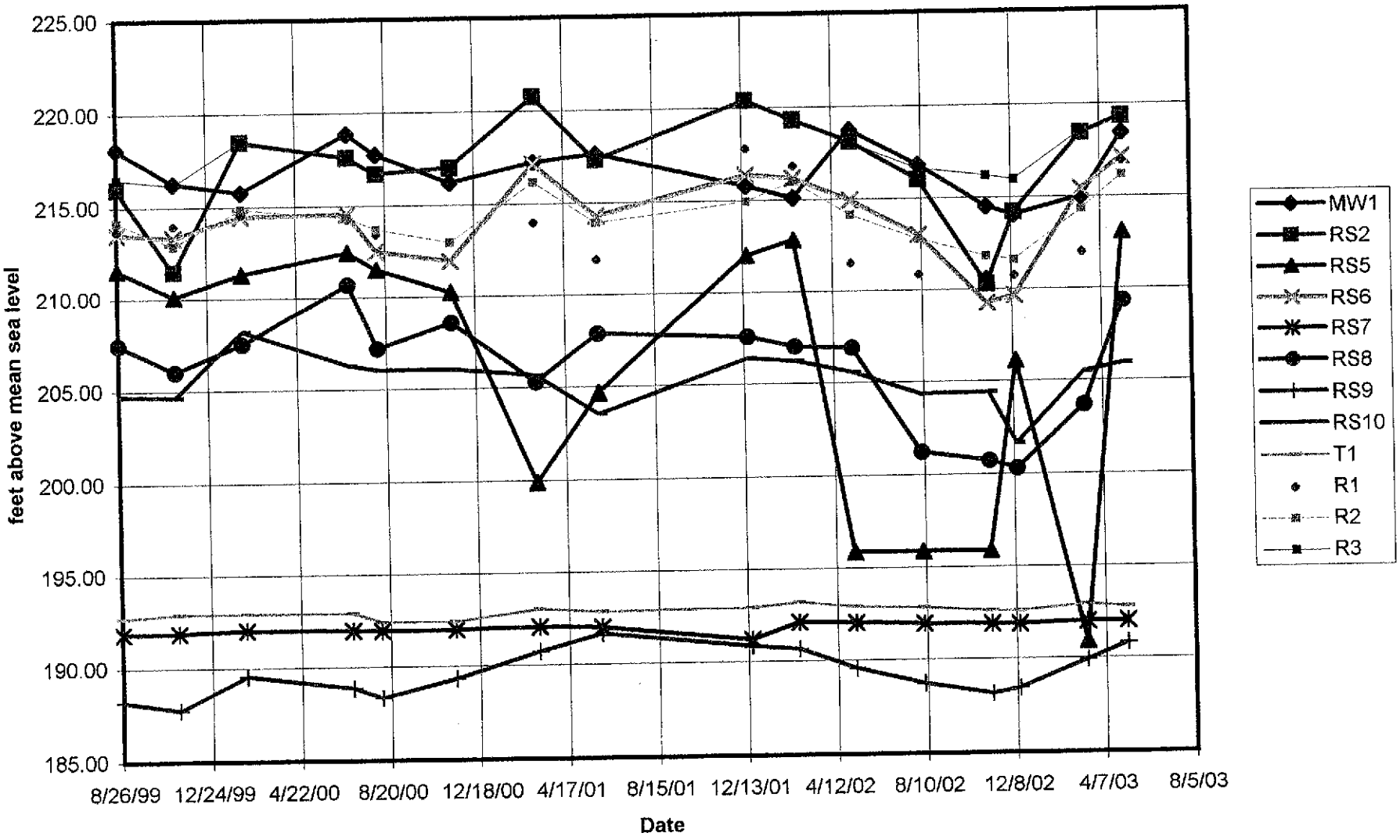
CONDITION OF COMPOUND COMMENTS OK

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 : 33046
Date : 5/15/2003

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

Subject : 11 Water Samples
Project Name : DP793 1/4ly
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 : 33046
Date : 5/15/2003

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

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples RS-08, R-2 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 33046
Date : 5/15/2003

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

Sample : **MW-1** Matrix : Water Lab Number : 33046-01
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	5/10/2003

Sample : **R-1** Matrix : Water Lab Number : 33046-02
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	5/10/2003

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 33046

Date : 5/15/2003

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

Project Number : **DP793**

Sample : **R-2** Matrix : Water Lab Number : 33046-03

Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**25**	0.50	ug/L	EPA 8260B	5/12/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2003
Total Xylenes	**1.3**	0.50	ug/L	EPA 8260B	5/12/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2003
TPH as Gasoline	**70**	50	ug/L	EPA 8260B	5/12/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	5/12/2003
4-Bromofluorobenzene (Surr)	97.4		% Recovery	EPA 8260B	5/12/2003

Sample : **R-3** Matrix : Water Lab Number : 33046-04

Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/10/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 33046
Date : 5/15/2003

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

Sample : **RS-02** Matrix : Water Lab Number : 33046-05
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/10/2003

Sample : **RS-06** Matrix : Water Lab Number : 33046-06
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	5/10/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 33046
Date : 5/15/2003

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

Sample : **RS-07** Matrix : Water Lab Number : 33046-07
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**740**	2.0	ug/L	EPA 8260B	5/12/2003
Toluene	**36**	2.0	ug/L	EPA 8260B	5/12/2003
Ethylbenzene	**160**	2.0	ug/L	EPA 8260B	5/12/2003
Total Xylenes	**310**	2.0	ug/L	EPA 8260B	5/12/2003
Methyl-t-butyl ether (MTBE)	**4.7**	2.0	ug/L	EPA 8260B	5/12/2003
TPH as Gasoline	**4800**	200	ug/L	EPA 8260B	5/12/2003
Toluene - d8 (Surr)	85.3		% Recovery	EPA 8260B	5/12/2003
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	5/12/2003

Sample : **RS-08** Matrix : Water Lab Number : 33046-08
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**6.7**	0.50	ug/L	EPA 8260B	5/12/2003
Toluene	**46**	0.50	ug/L	EPA 8260B	5/12/2003
Ethylbenzene	**21**	0.50	ug/L	EPA 8260B	5/12/2003
Total Xylenes	**170**	0.50	ug/L	EPA 8260B	5/12/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2003
TPH as Gasoline	**1600**	50	ug/L	EPA 8260B	5/12/2003
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	5/12/2003
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	5/12/2003

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 33046
Date : 5/15/2003

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

Sample : **RS-09** Matrix : Water Lab Number : 33046-09
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**72**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**15**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**9.2**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**26**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**5.5**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**910**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	5/10/2003

Sample : **RS-10** Matrix : Water Lab Number : 33046-10
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	5/10/2003

Joel Kiff

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 33046
Date : 5/15/2003

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

Sample : **T1** Matrix : Water Lab Number : 33046-11
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1000**	2.5	ug/L	EPA 8260B	5/12/2003
Toluene	**230**	2.5	ug/L	EPA 8260B	5/12/2003
Ethylbenzene	**310**	2.5	ug/L	EPA 8260B	5/12/2003
Total Xylenes	**820**	2.5	ug/L	EPA 8260B	5/12/2003
Methyl-t-butyl ether (MTBE)	**10**	2.5	ug/L	EPA 8260B	5/12/2003
TPH as Gasoline	**6800**	250	ug/L	EPA 8260B	5/12/2003
Toluene - d8 (Surr)	84.3		% Recovery	EPA 8260B	5/12/2003
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	5/12/2003

Approved By: Joel Kiff

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

Report Number : 33046

Date : 5/15/2003

QC Report : Method Blank Data

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

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/11/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/11/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/11/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/11/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/11/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/11/2003
Toluene - d8 (Surr)	102		%	EPA 8260B	5/11/2003
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	5/11/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/12/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/12/2003
Toluene - d8 (Surr)	104		%	EPA 8260B	5/12/2003
4-Bromofluorobenzene (Surr)	98.4		%	EPA 8260B	5/12/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/9/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/9/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/9/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/9/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/9/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/9/2003
Toluene - d8 (Surr)	97.7		%	EPA 8260B	5/9/2003
4-Bromofluorobenzene (Surr)	104		%	EPA 8260B	5/9/2003

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 : 33046

Date : 5/15/2003

QC Report : Matrix Spike/ Matrix Spike Duplicate

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

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	33075-12	<0.50	39.8	40.0	39.7	39.8	ug/L	EPA 8260B	5/11/03	99.6	99.5	0.0502	70-130	25
Toluene	33075-12	<0.50	39.8	40.0	39.5	39.2	ug/L	EPA 8260B	5/11/03	99.1	98.1	0.963	70-130	25
Tert-Butanol	33075-12	<5.0	199	200	194	193	ug/L	EPA 8260B	5/11/03	97.3	96.6	0.717	70-130	25
Methyl-t-Butyl Ether	33075-12	16	39.8	40.0	54.4	55.1	ug/L	EPA 8260B	5/11/03	96.1	97.4	1.43	70-130	25
Benzene	33050-06	36	40.0	40.0	68.0	64.0	ug/L	EPA 8260B	5/12/03	79.1	69.1	13.5	70-130	25
Toluene	33050-06	1.7	40.0	40.0	39.4	36.9	ug/L	EPA 8260B	5/12/03	94.2	88.1	6.69	70-130	25
Tert-Butanol	33050-06	<5.0	200	200	203	191	ug/L	EPA 8260B	5/12/03	102	95.4	6.35	70-130	25
Methyl-t-Butyl Ether	33050-06	0.94	40.0	40.0	44.6	41.3	ug/L	EPA 8260B	5/12/03	109	101	7.97	70-130	25
Benzene	33063-04	<0.50	40.0	40.0	41.1	39.0	ug/L	EPA 8260B	5/9/03	103	97.6	5.19	70-130	25
Toluene	33063-04	<0.50	40.0	40.0	42.0	39.3	ug/L	EPA 8260B	5/9/03	105	98.3	6.47	70-130	25
Tert-Butanol	33063-04	<5.0	200	200	213	209	ug/L	EPA 8260B	5/9/03	106	104	1.84	70-130	25
Methyl-t-Butyl Ether	33063-04	<0.50	40.0	40.0	42.0	40.3	ug/L	EPA 8260B	5/9/03	105	101	4.18	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 33046

Date : 5/15/2003

QC Report : Laboratory Control Sample (LCS)

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

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	5/11/03	100	70-130
Toluene	40.0	ug/L	EPA 8260B	5/11/03	98.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/11/03	96.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/11/03	100	70-130
Benzene	40.0	ug/L	EPA 8260B	5/12/03	96.8	70-130
Toluene	40.0	ug/L	EPA 8260B	5/12/03	95.7	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/12/03	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/12/03	108	70-130
Benzene	40.0	ug/L	EPA 8260B	5/9/03	99.4	70-130
Toluene	40.0	ug/L	EPA 8260B	5/9/03	101	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/9/03	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/9/03	100	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. 33046 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse	California EDF Report? [X] Yes [ ] No
Company/Address: WEGE 1386 Beamer Woodland CA 95776	Recommended but not mandatory to complete this section: Sampling Company Log Code: WGEW
Phone No.: 530 668 5300 FAX No.: 530-662 0273	Global ID:
Project Number: DP793 P.O. No.:	EDF Deliverable To (Email Address): wegelab@cal.net
Project Name: DP793 4/4/y	Sampler Signature: [signature]
Project Address: Park blvd Oakland	

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/(1wk)	For Lab Use Only
MW 1	5/6/03	855	3		✓		✓		✓						✓									✓	01
R-1	〃	1142	〃		〃		〃		〃						〃									〃	02
R-2	〃	1034	〃		〃		〃		〃						〃									〃	03
R-3	〃	1115	〃		〃		〃		〃						〃									〃	04
RS-02	〃	914	〃		〃		〃		〃						〃									〃	05
RS-06	〃	1115	〃		〃		〃		〃						〃									〃	06
RS-07	〃	1252	〃		〃		〃		〃						〃									〃	07
RS-08	〃	1208	〃		〃		〃		〃						〃									〃	08
RS-09	〃	1239	〃		〃		〃		〃						〃									〃	09
RS-10	〃	1224	〃		〃		〃		〃						〃									〃	10

Relinquished by:	Date	Time	Received by:	
[signature]	5/8/03	1625		Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	050803	1625	Michelle Woodworth / Kiff Analytical	

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. 33046 Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse
Company/Address:
Phone No.: 530 668 5300 FAX No.:
Project Number: DP793 P.O. No:
Project Name: DP793 1/4/lg
Project Address: Park Blvd Oakland

California EDF Report? ☑ Yes ☐ No

Recommended but not mandatory to complete this section:
Sampling Company Log Code: WBEW
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature: L2 Bradley

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
T1	5/6/03	1304	3		✓		✓		✓	

Analysis Request

Sample Designation	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/ wk	For Lab Use Only
T1					✓									✓	11

Relinquished by: L2 Bradley	Date: 5/9/03	Time: 1625	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date: 050803	Time: 1625	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 : 33049
Date : 5/14/2003

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 33049
Date : 5/14/2003

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

Sample : **CARBON DISCHARGE** Matrix : Water Lab Number : 33049-01
Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	5/10/2003

Approved By: Joel Kiff

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

Report Number : 33049

Date : 5/14/2003

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	5/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	104		%	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	97.0		%	EPA 8260B	5/10/2003

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 : 33049

Date : 5/14/2003

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	33049-01	<0.50	40.0	40.0	39.5	38.2	ug/L	EPA 8260B	5/10/03	98.6	95.4	3.32	70-130	25
Toluene	33049-01	<0.50	40.0	40.0	39.0	37.7	ug/L	EPA 8260B	5/10/03	97.5	94.3	3.31	70-130	25
Tert-Butanol	33049-01	13	200	200	218	222	ug/L	EPA 8260B	5/10/03	102	105	2.29	70-130	25
Methyl-t-Butyl Ether	33049-01	<0.50	40.0	40.0	48.3	47.8	ug/L	EPA 8260B	5/10/03	121	120	0.895	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 33049

QC Report : Laboratory Control Sample (LCS)

Date : 5/14/2003

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	5/10/03	99.7	70-130
Toluene	40.0	ug/L	EPA 8260B	5/10/03	99.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/10/03	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/10/03	113	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. 33049 Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: WEGE 1386 Bernal Woodland

Phone No.: 530-668-5300 FAX No.: 530 662 0273

Project Number: DP 793 P.O. No:

Project Name: DP 793

Project Address: Park Blvd Oakland

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: - - -

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

EDF Deliverable To (Email Address): wegehb@aol.net

Sampler Signature: [signature]

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 Discharge	5/6/03	1025	3					✓		←			✓								✓													401

Relinquished by:	Date	Time	Received by:	Remarks:
[signature]	5/7/03	1605		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	050803	1605	Michelle Woodland KIFF Analytical	

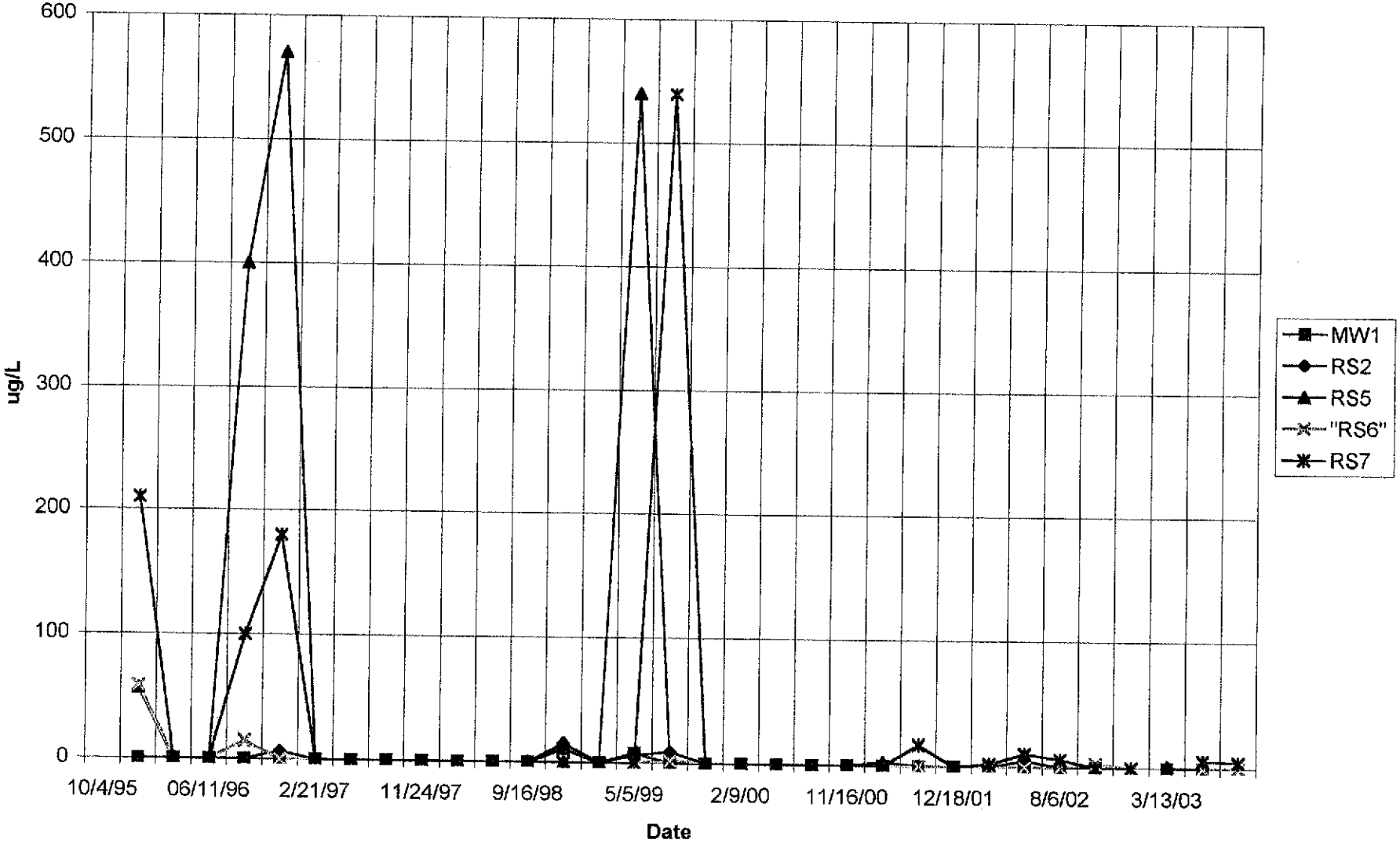
Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 121001.fh9

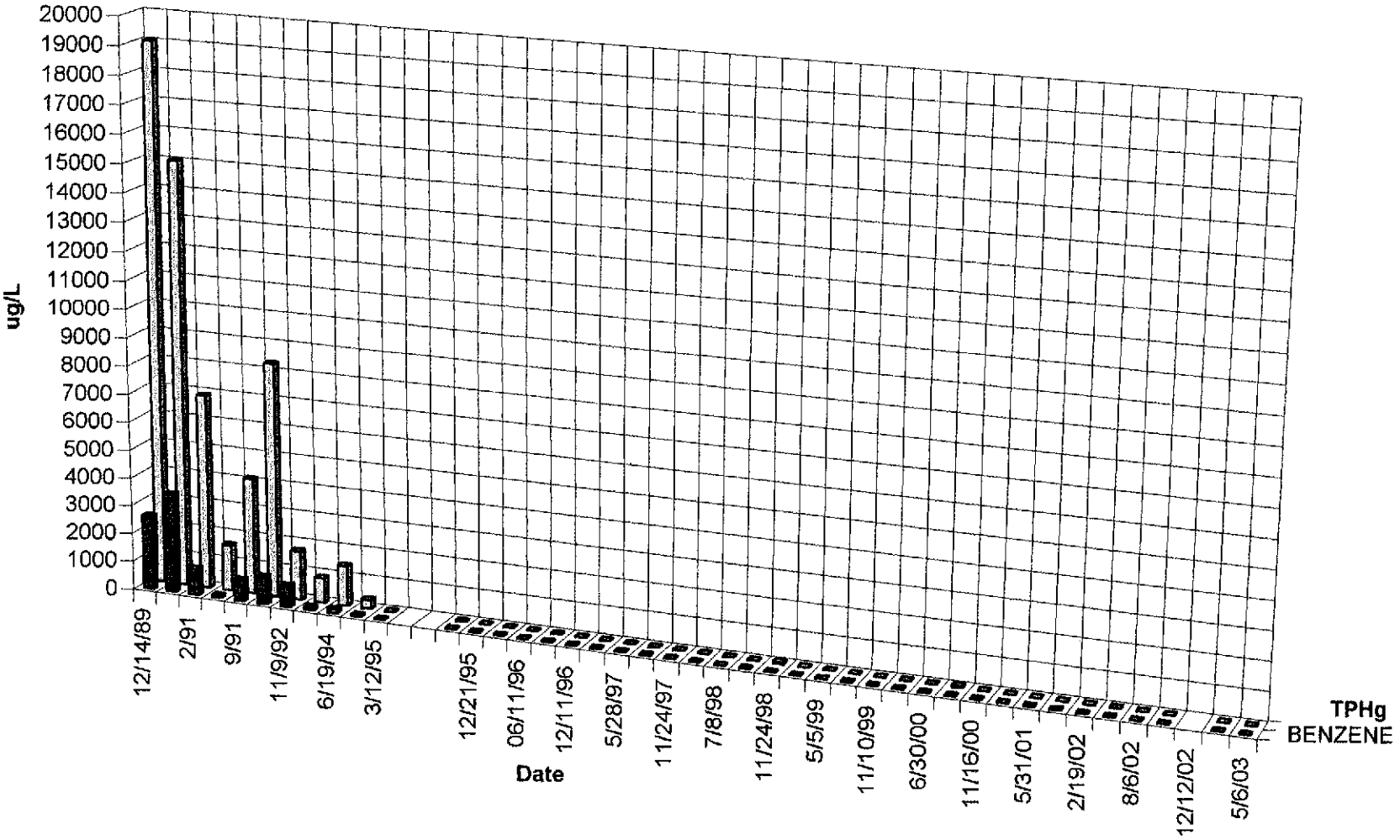
APPENDIX D.

MtBE, TPHg AND BENZENE CHARTS

MTBE IN WELLS



RS-1/MW-1 TPHg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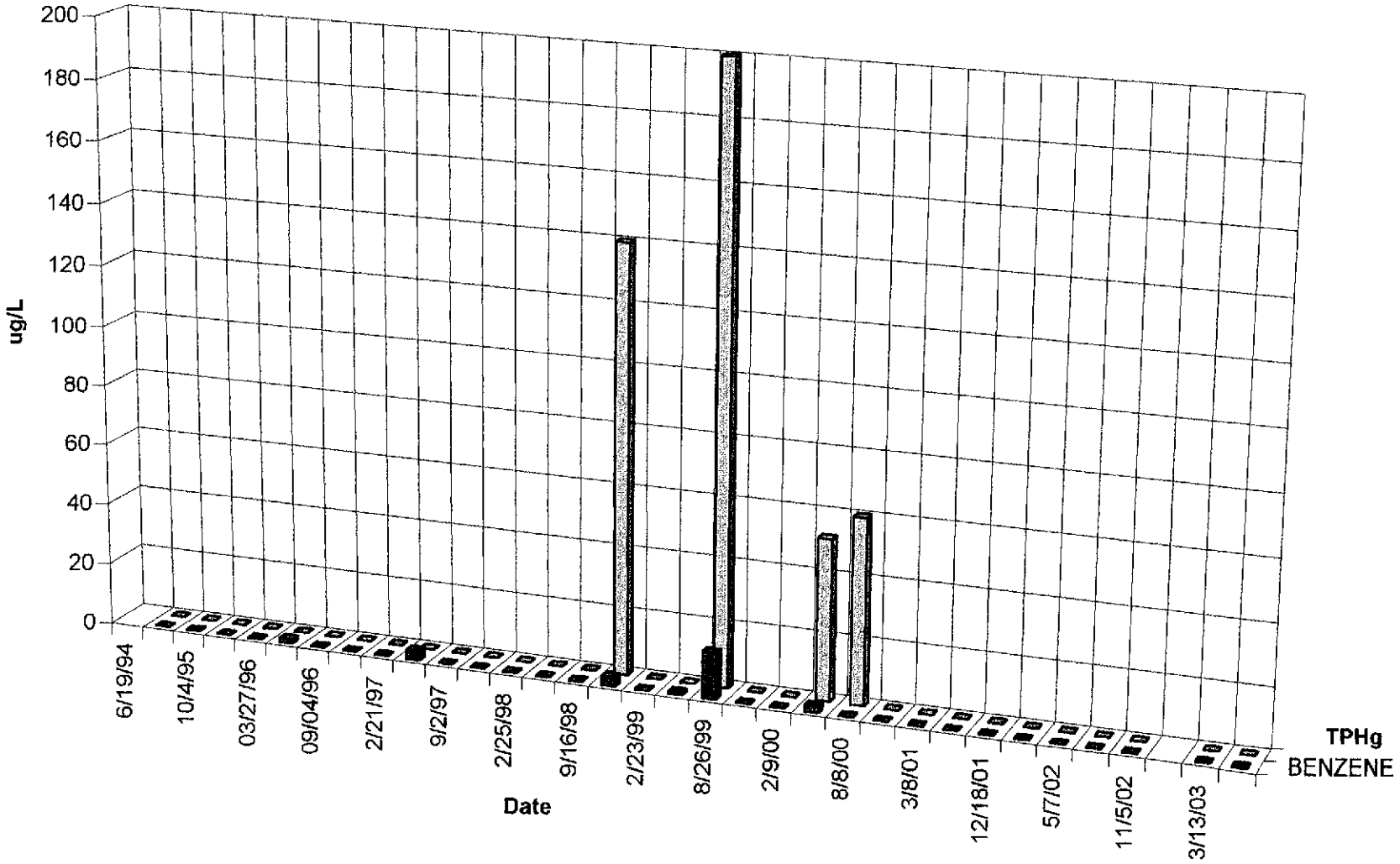
TPHg
BENZENE

RS-2 TPHg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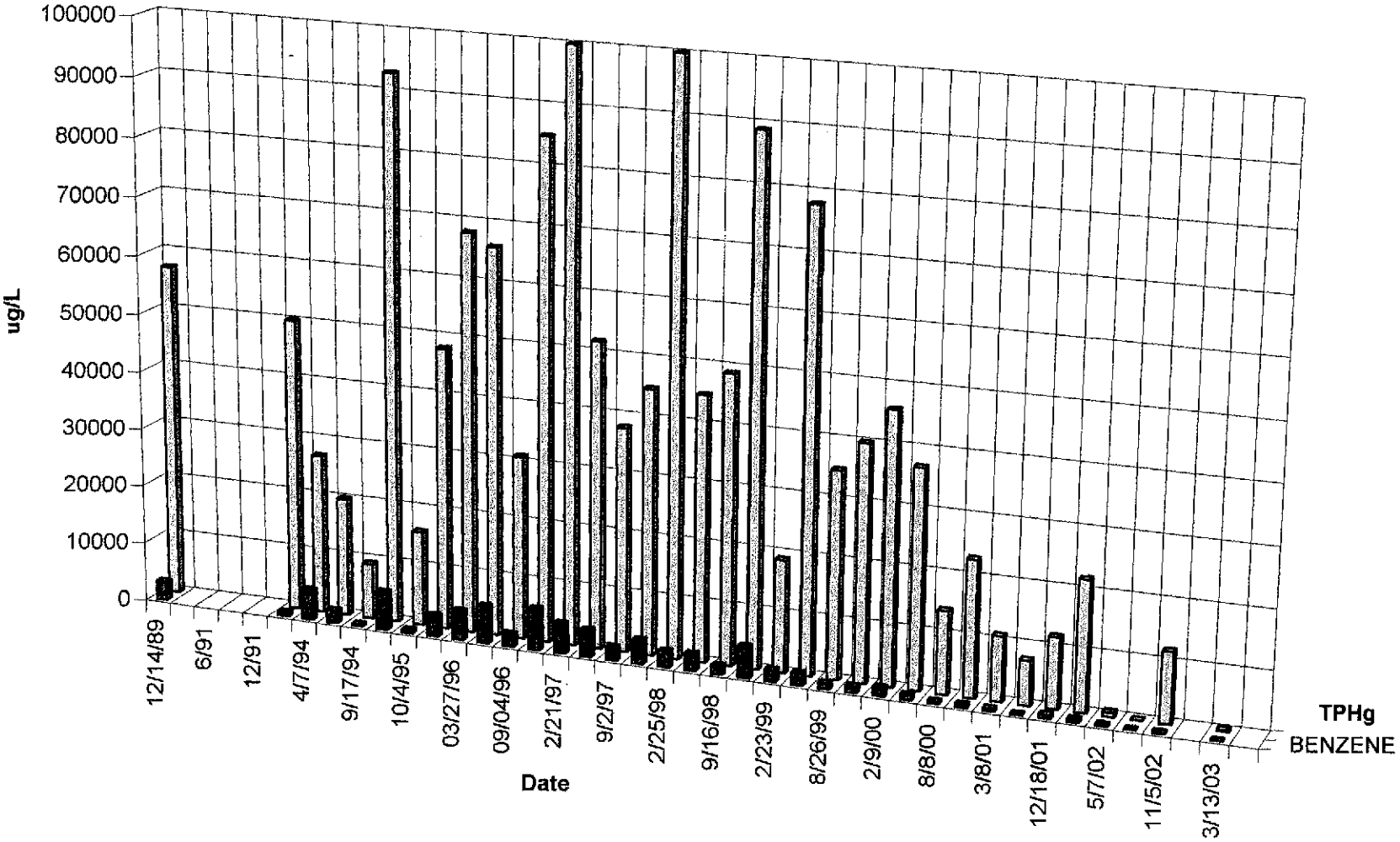
RS-5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TPHg
BENZENE

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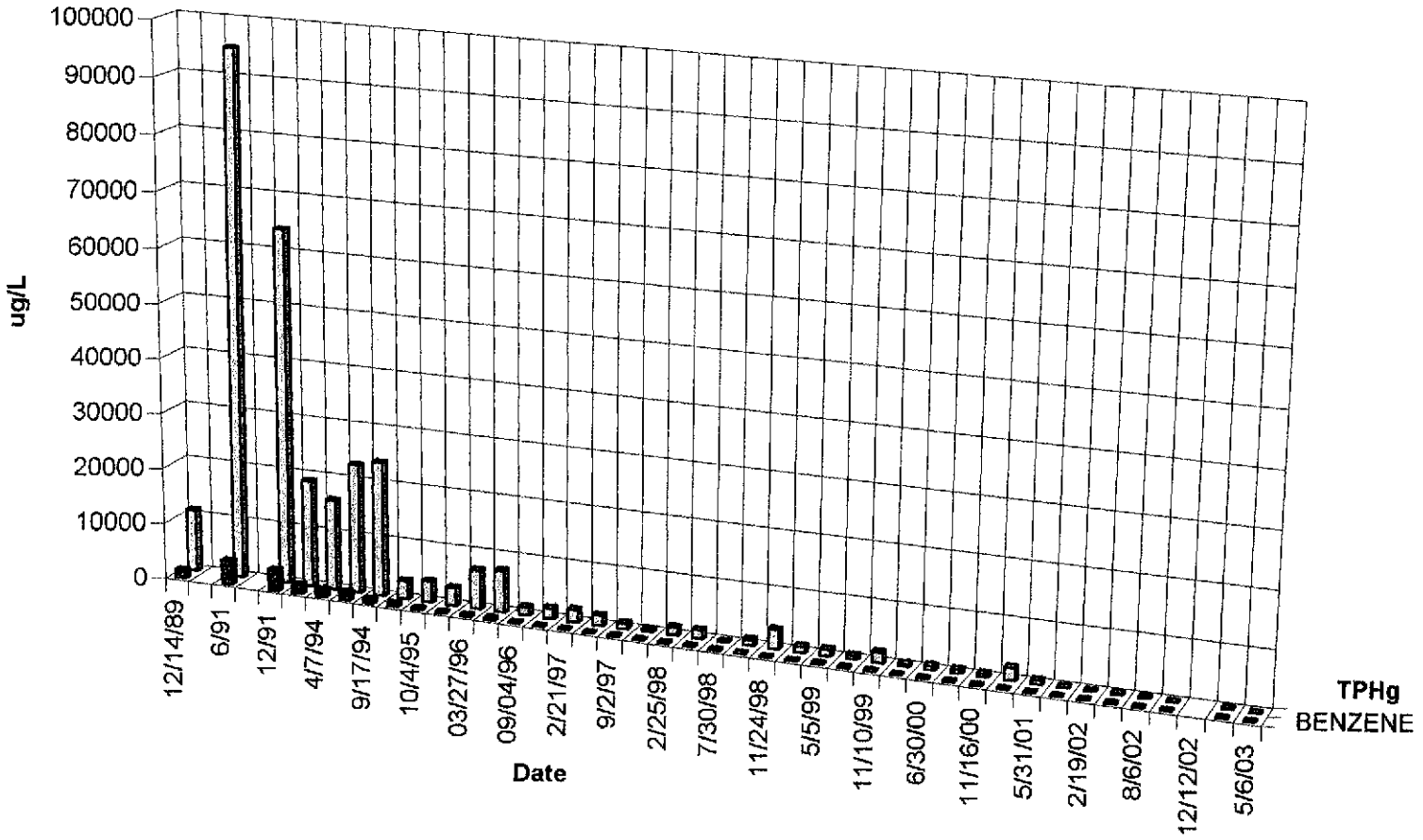
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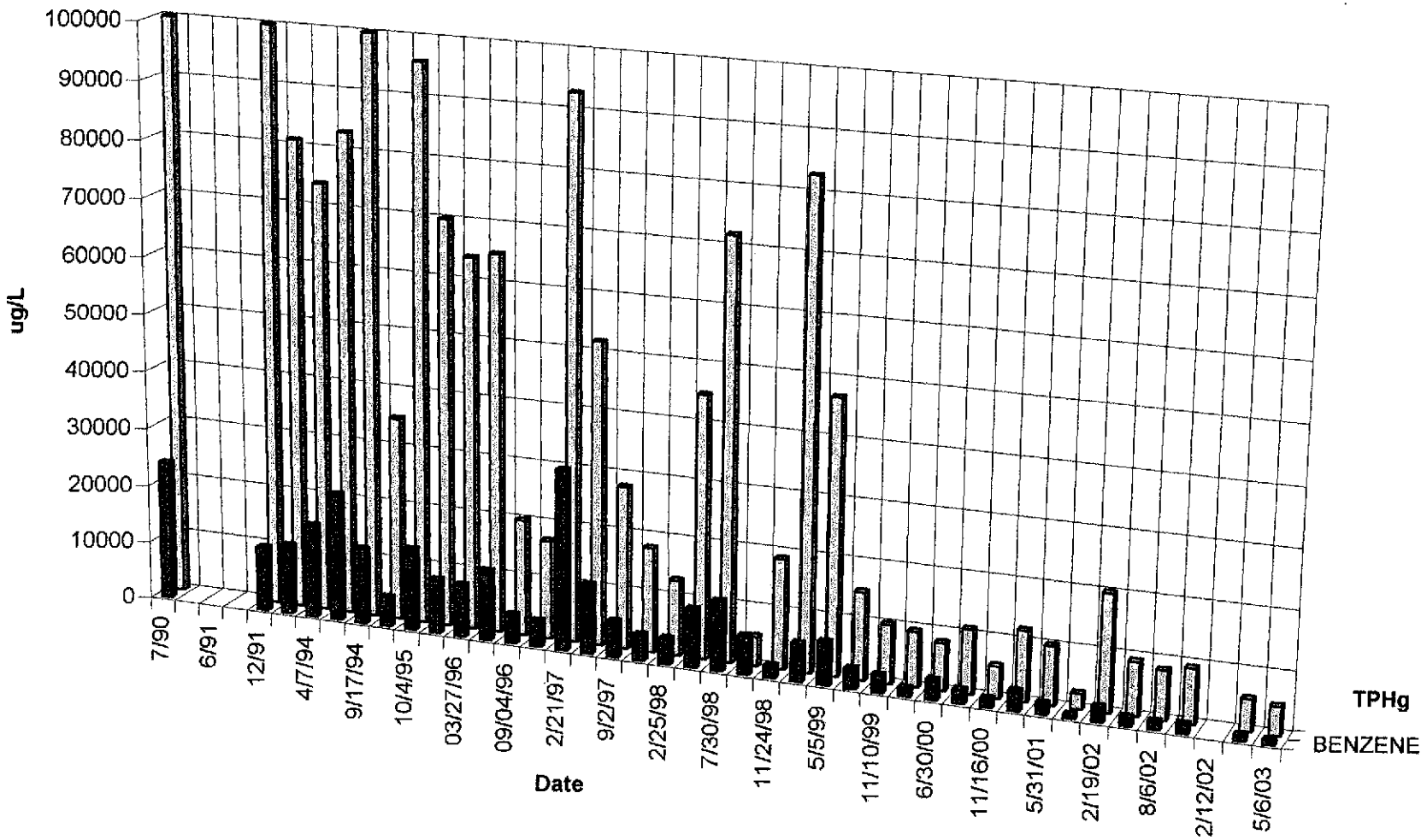
BENZENE

RS-7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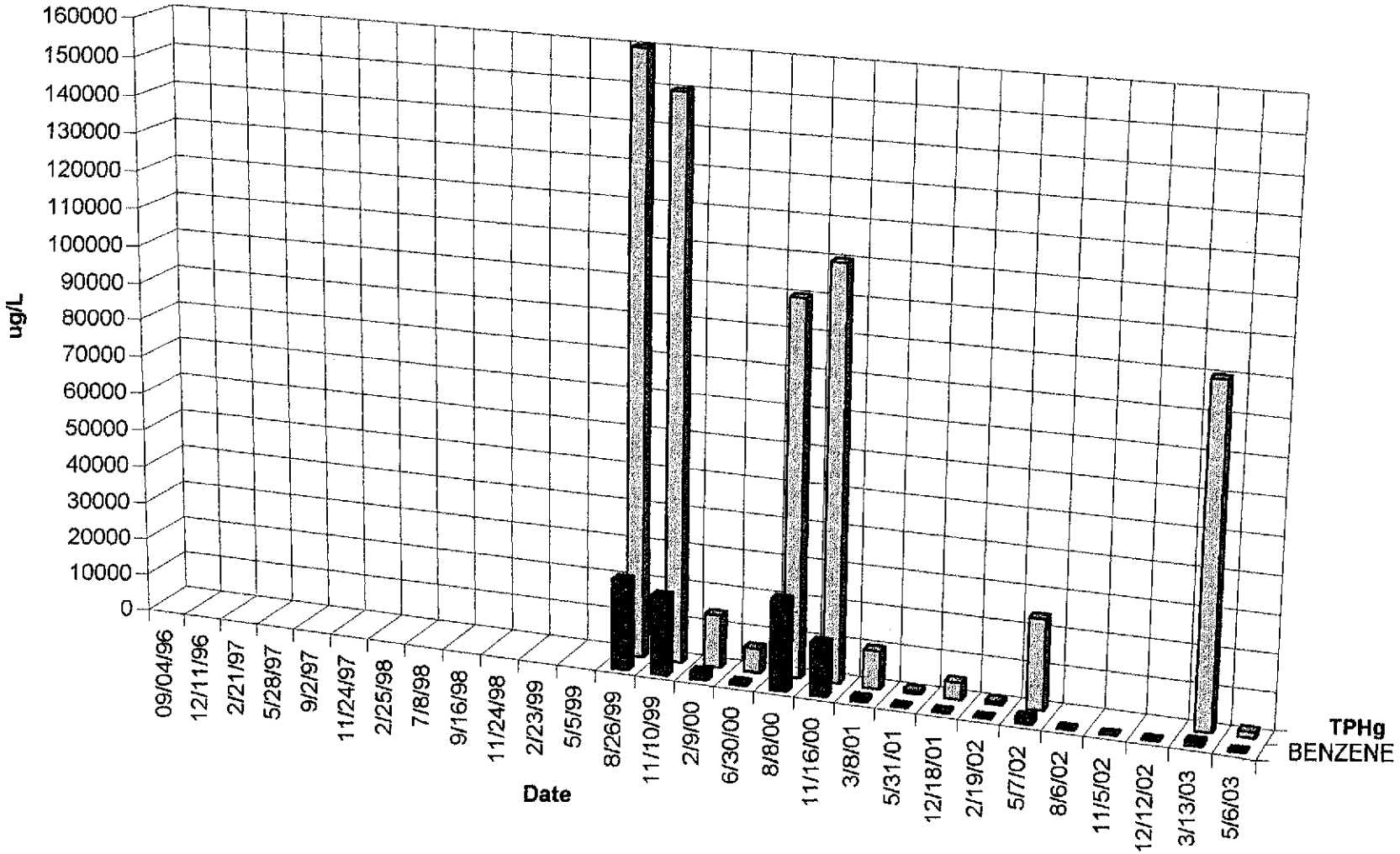
BENZENE

RS-8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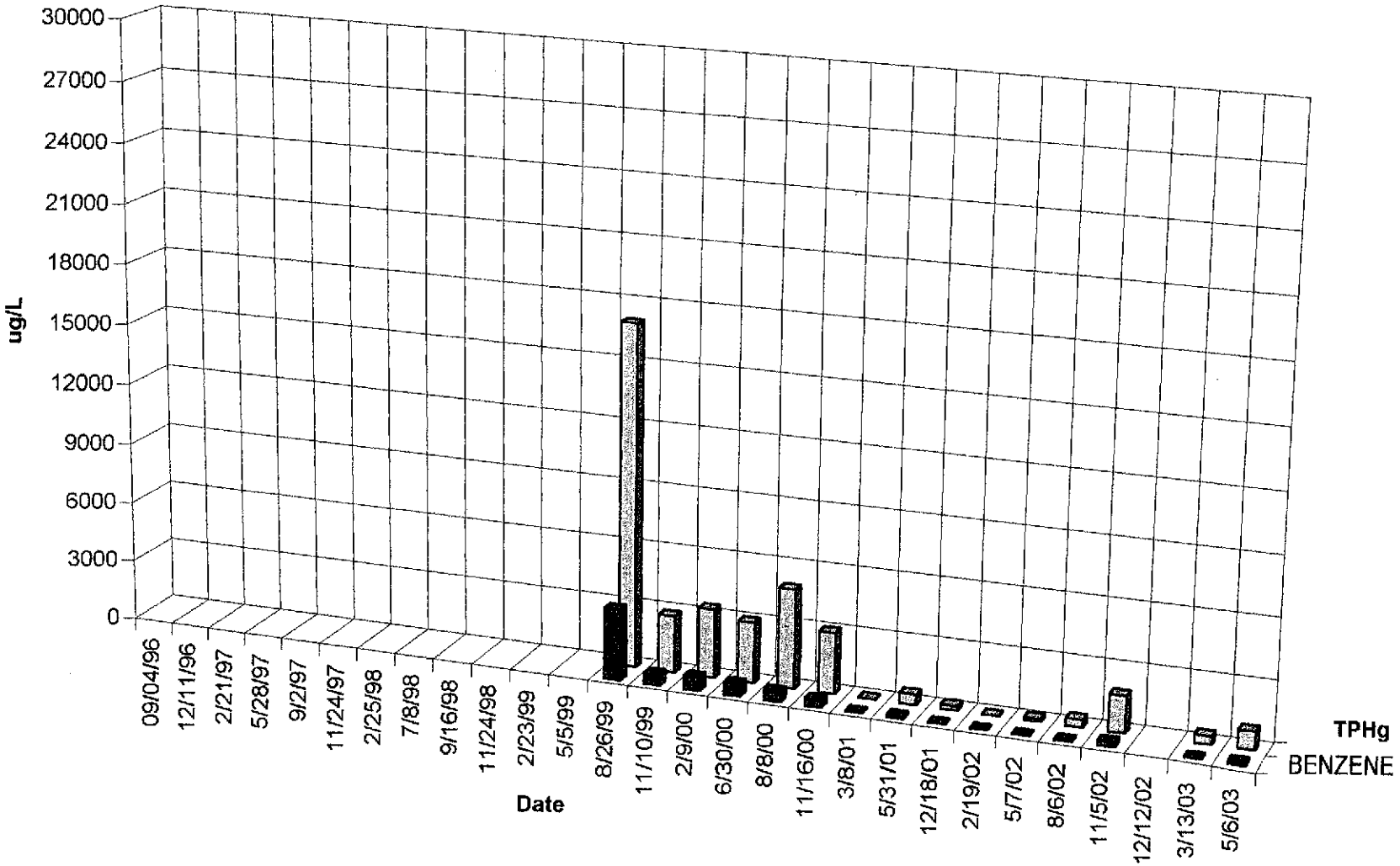
BENZENE

RS-9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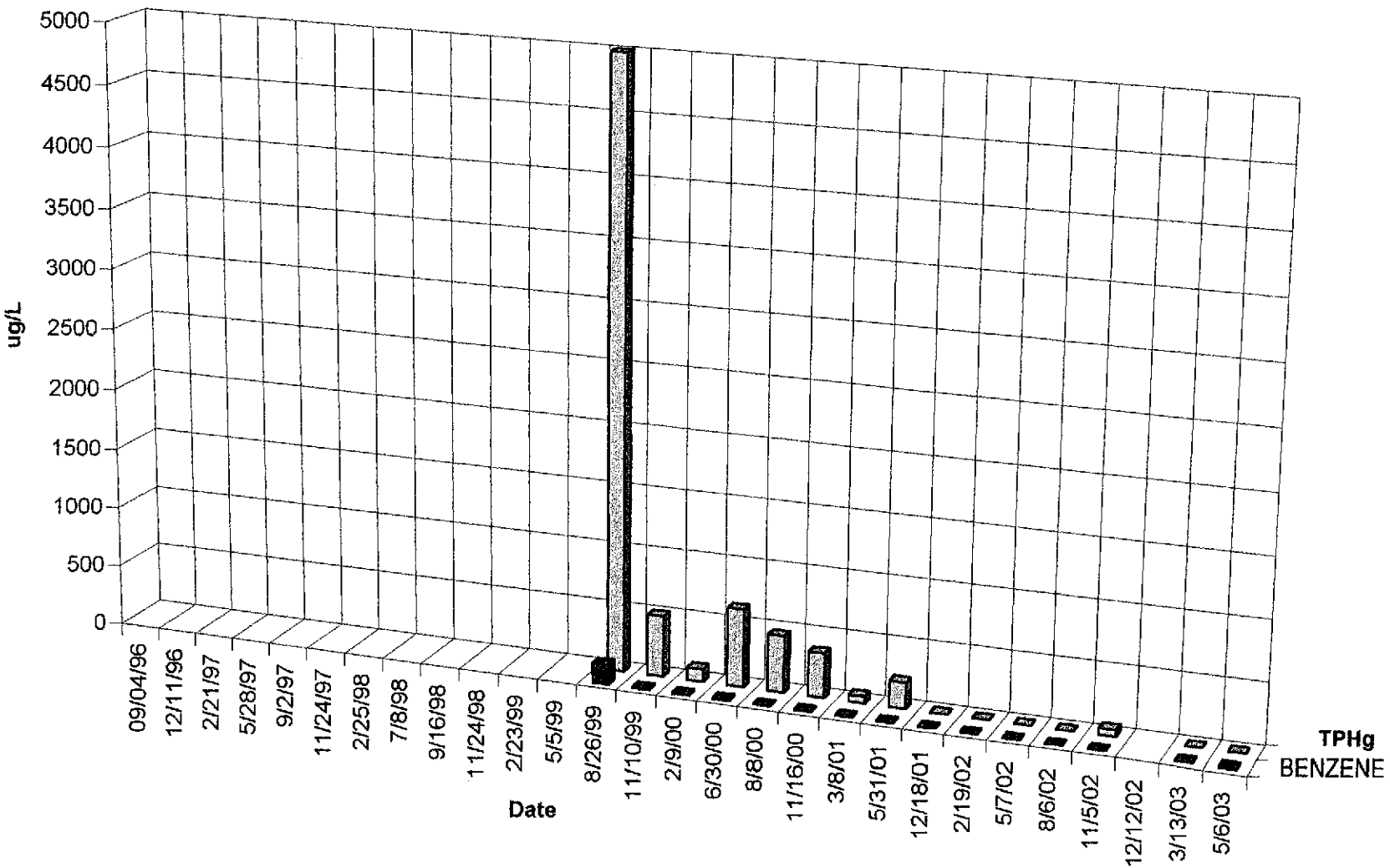
BENZENE

RS-10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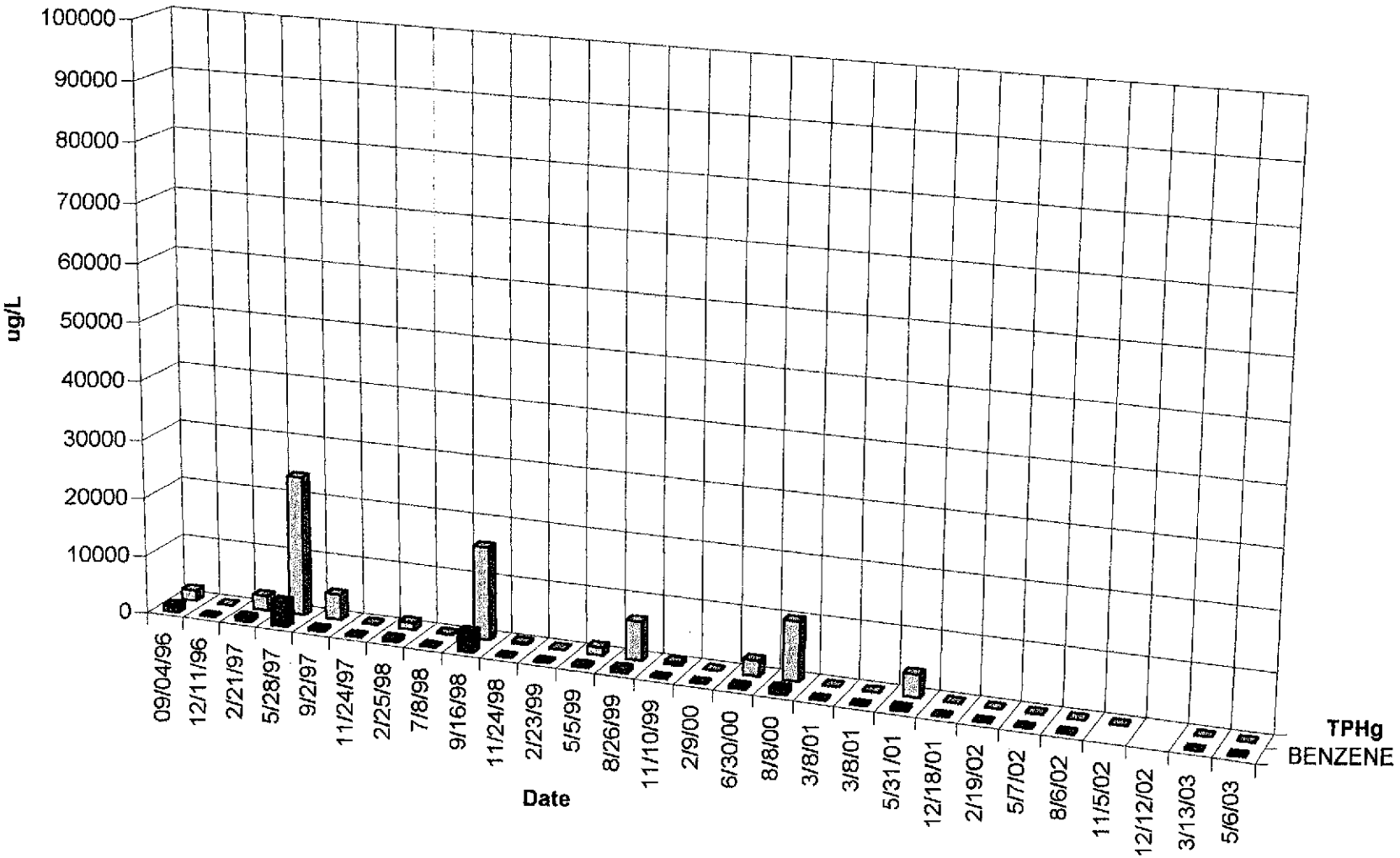
BENZENE

R-1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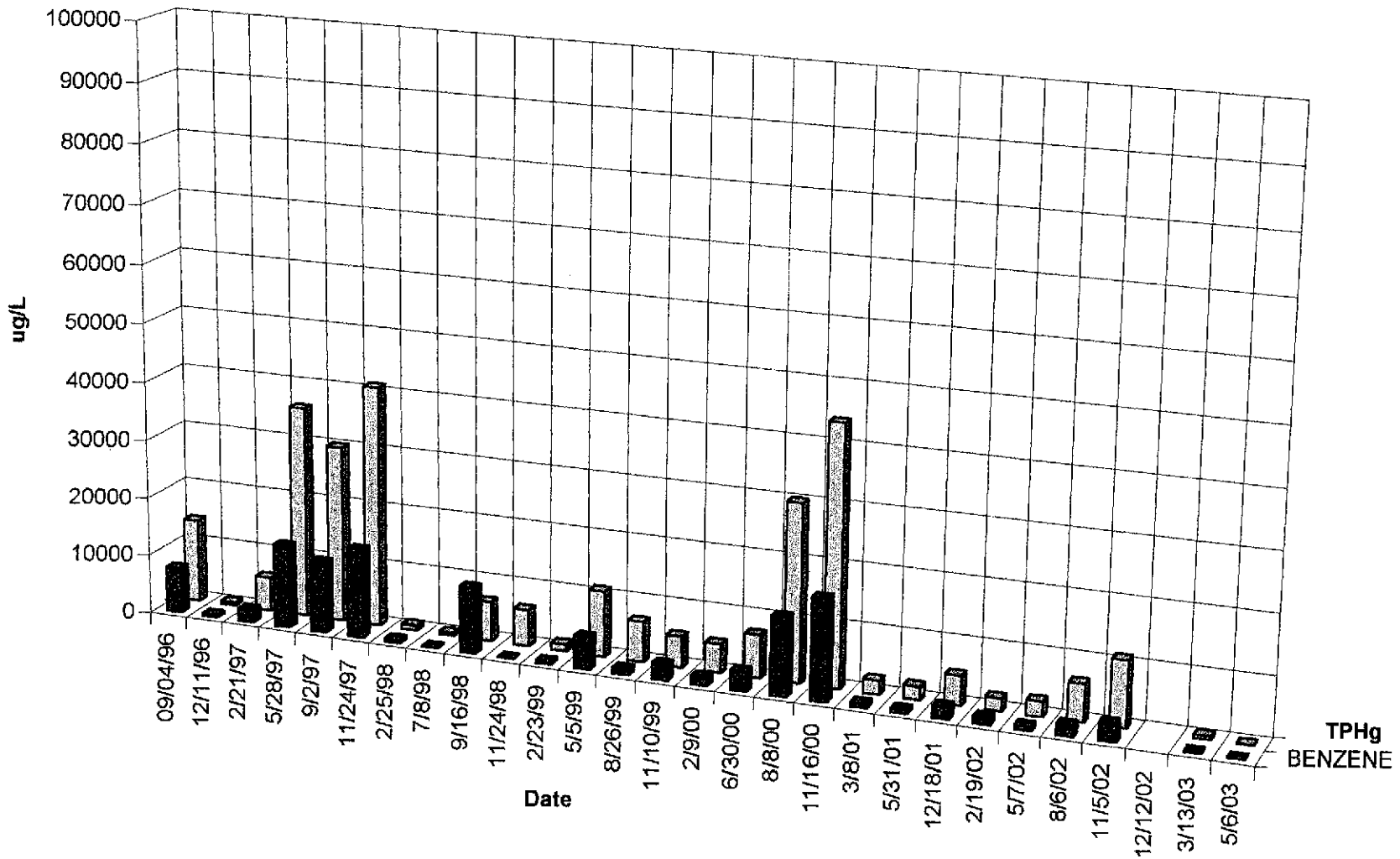
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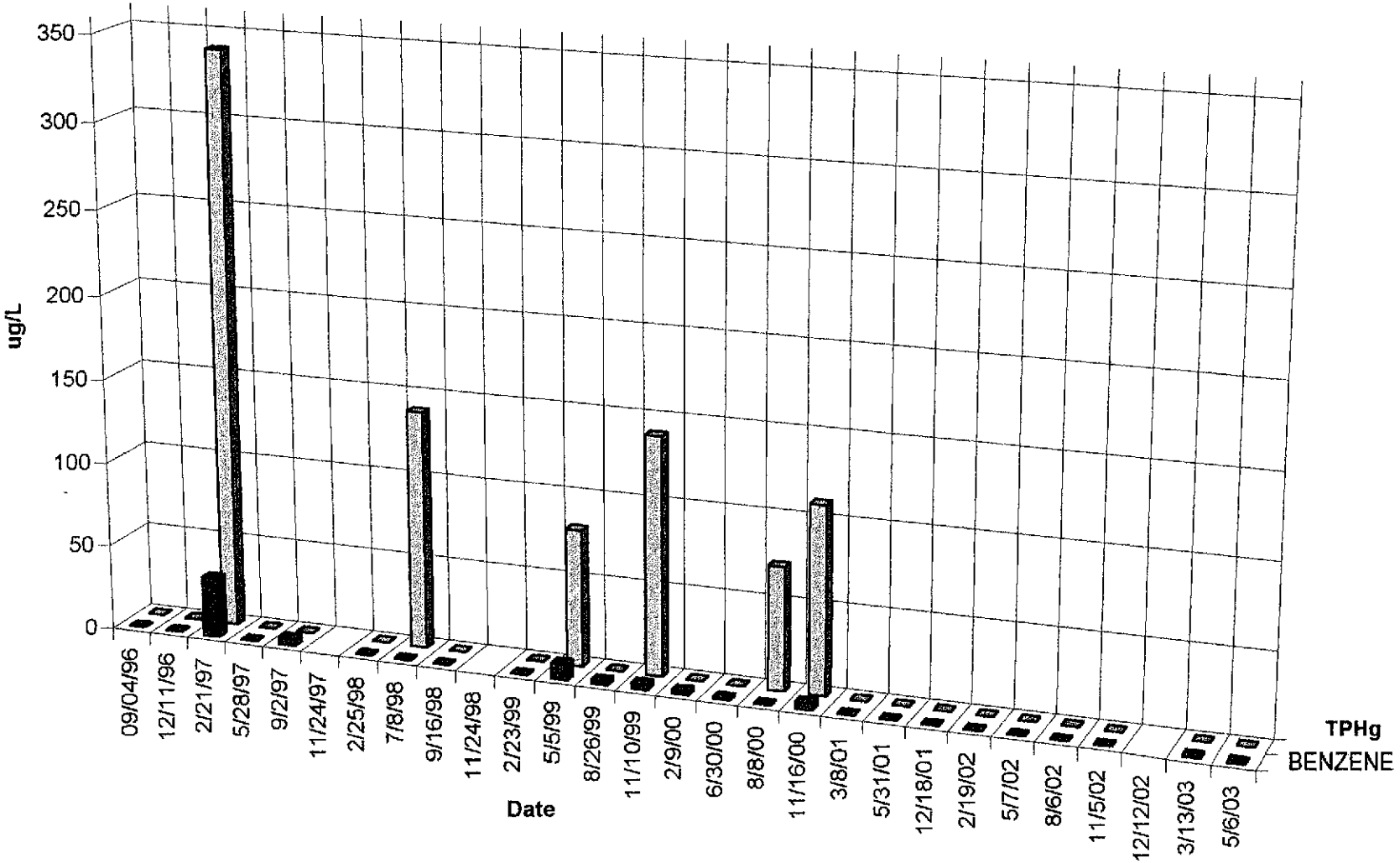
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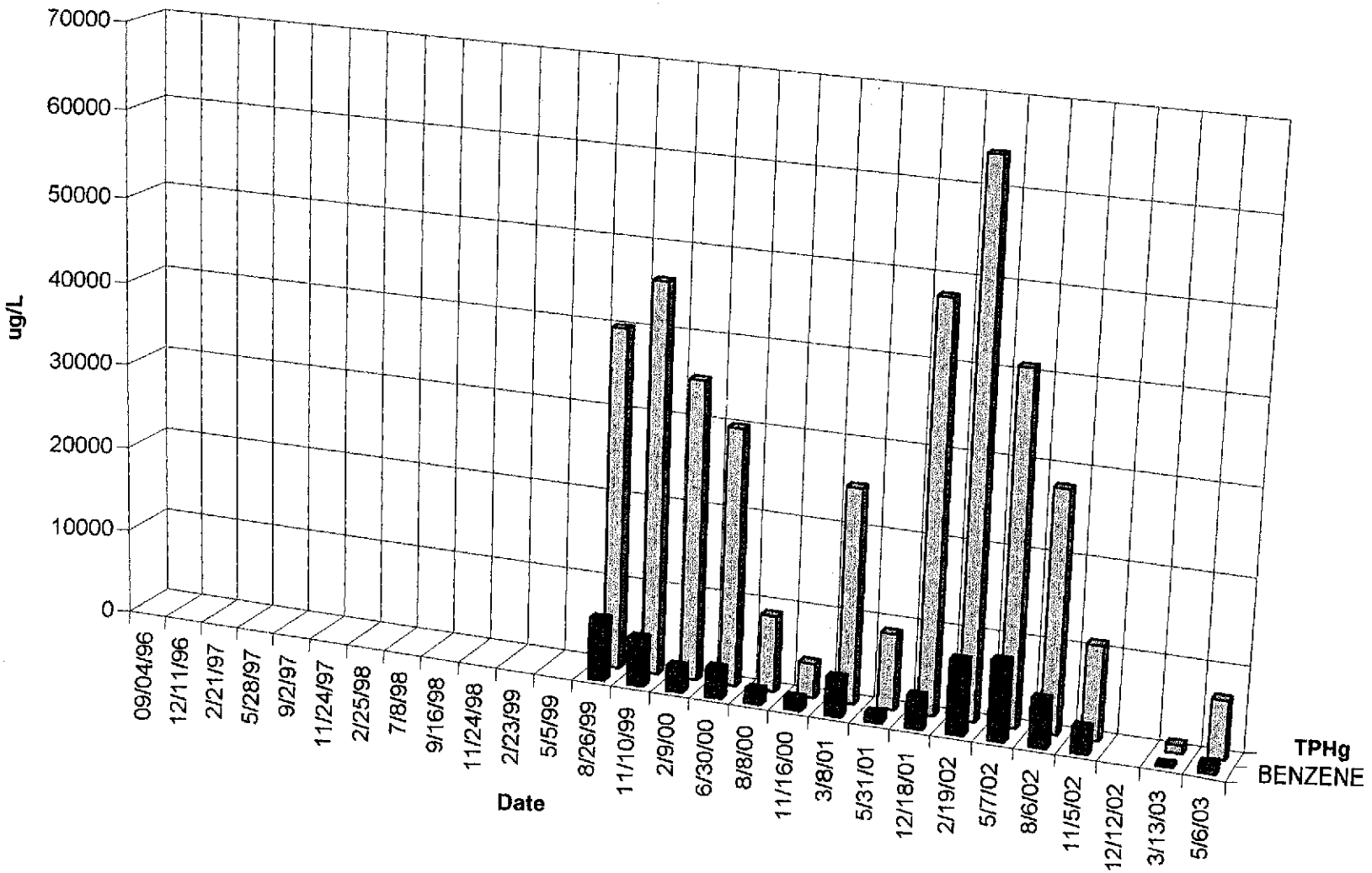
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Date
TPHg
BENZENE

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

June 9, 2003

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 March 13, and June 5, 2003. Continues discharge from pumping at RS-5 was discontinued 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 May 6, 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 6/12/03 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 TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	Sample Location
					0									
3/21/02	1235760.0	1235760.0		0	62995	78919.3	141914.2	set pump into RS5, restart pumping from RS-5						
3/27/02	1243817.8	1243817.8		0	62995	86977.1	149972.0							
4/11/02	1259678.6	1259678.6		0	62995	102837.9	165832.8							
5/7/02	1283903.1	1283903.1	2.22	132	63127	126930.4	190057.3	41000	9200	910	2000	6200	62	T1
6/6/02	1308480.0	1308480.0		0	63127	151507.3	214634.2							
7/18/02	1330934.8	1330934.8		0	63127	173962.1	237089.0							
8/6/02	1340694.7	1340694.7		0	63127	183722.0	246848.9	28000	5500	240	1300	2600	32	T1
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
6/5/03	1536327.1	1536327.1		0	71836	370645.2	442481.3							

ams per liter (parts per billion)
grams per liter (parts per million)
SEO-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

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					

< BELOW LABORATORY LOWER DETECTION LIMITS

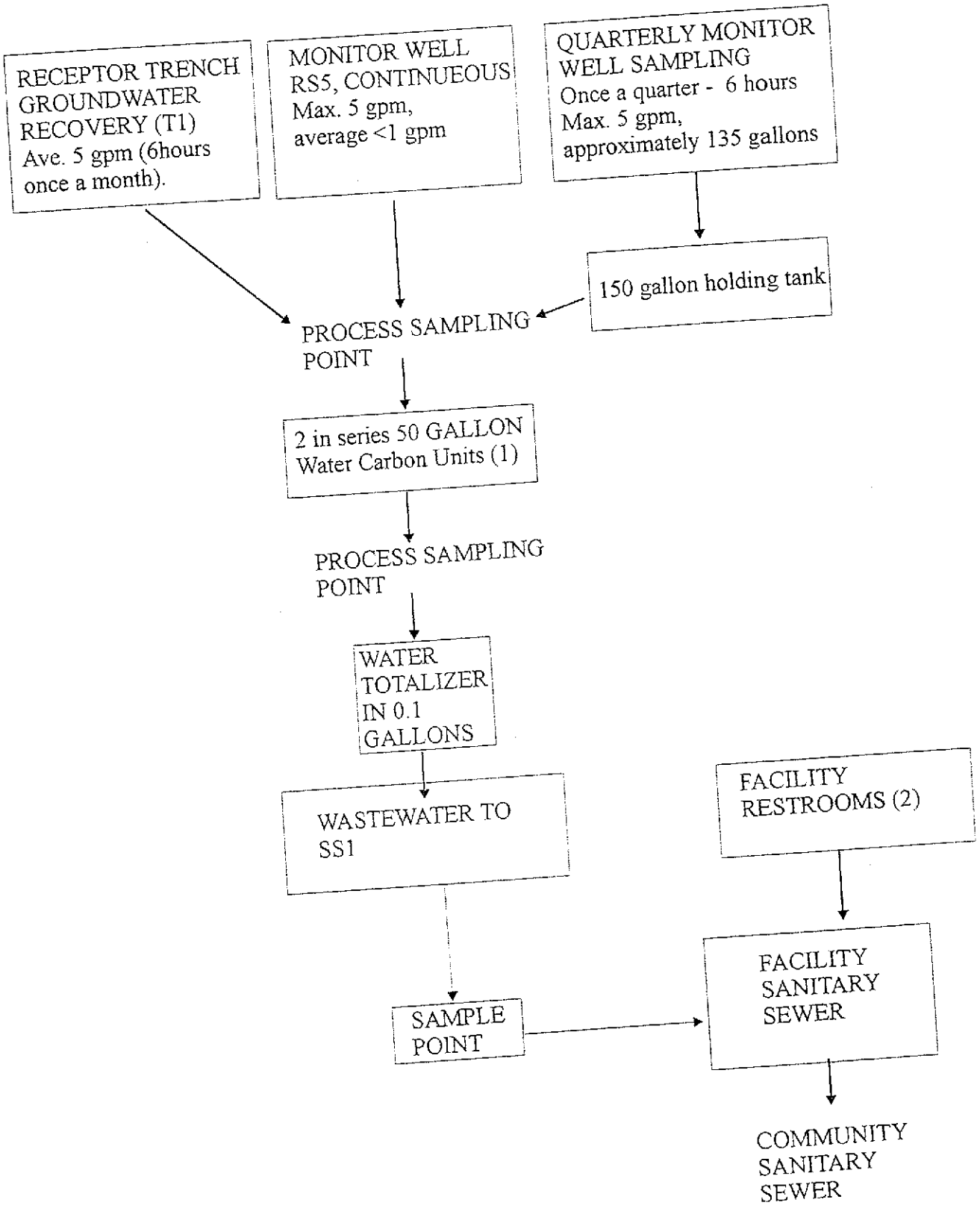
ug/L micrograms per liter (parts per billion)

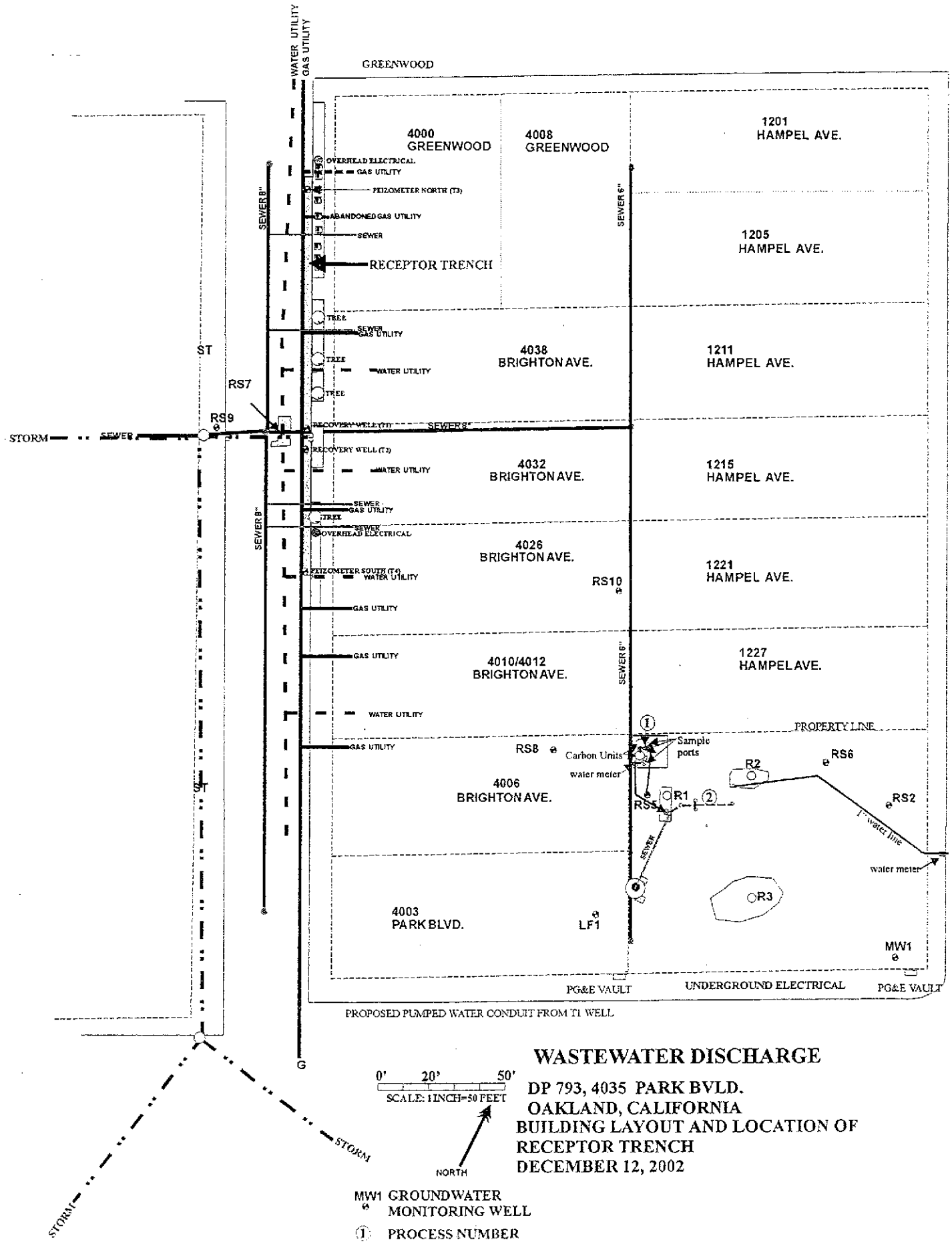
Note: water meter #47083426 did not function during initial test, substitute meter #35635668 used until cleaned and tested. Re-installed January 28, 2000.

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 October 31, 2002)
Activity: GROUNDWATER RECOVERY AND DISCHARGE SYSTEM
FORMER DESERT PETROLEUM SITE DP 793.





WASTEWATER DISCHARGE

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
BUILDING LAYOUT AND LOCATION OF RECEPTOR TRENCH
DECEMBER 12, 2002

MW1 GROUNDWATER MONITORING WELL

① PROCESS NUMBER

WATER METER

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 5-6-03

REASON FOR SITE VISIT 1/4/g & Pump Trench

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP.	COND.
800		2.37			
1300		4.18			

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
	11.06	8.03	14.52	10.10

RS7	RS8	RS9	RS10
3.98	5.33	4.83	2.35

R1	R2	R3	
10.23	11.14	8.02	

COMMENTS site OK

ELECTRIC METER ~~~~

WATER METER 1516728.1 1509139.4

SAMPLE(s) 1/4/g + EBMUD

SITE MONITORED BY: Beardsley

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE 5 GALLONS/ 1 MINUTES
T2 FLOW RATE ___ GALLONS/___ MINUTES

GALLONS PURGED ___
GALLONS PURGED ___

PRESSURE WATER CARBONS #1 ___ PSI, #2 ___ PSI

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

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

KIFF ANALYTICAL LLC

Report Number : 33049
Date : 5/14/2003

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,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 33049

Date : 5/14/2003

Project Name : **DP793**

Project Number : **DP793**

Sample : **CARBON DISCHARGE** Matrix : Water Lab Number : 33049-01

Sample Date :5/6/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	5/10/2003

Approved By: Joel Kiff

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

Report Number : 33049

Date : 5/14/2003

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	5/10/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/10/2003
Toluene - d8 (Surr)	104		%	EPA 8260B	5/10/2003
4-Bromofluorobenzene (Surr)	97.0		%	EPA 8260B	5/10/2003

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 : 33049

Date : 5/14/2003

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	33049-01	<0.50	40.0	40.0	39.5	38.2	ug/L	EPA 8260B	5/10/03	98.6	95.4	3.32	70-130	25
Toluene	33049-01	<0.50	40.0	40.0	39.0	37.7	ug/L	EPA 8260B	5/10/03	97.5	94.3	3.31	70-130	25
Tert-Butanol	33049-01	13	200	200	218	222	ug/L	EPA 8260B	5/10/03	102	105	2.29	70-130	25
Methyl-t-Butyl Ether	33049-01	<0.50	40.0	40.0	48.3	47.8	ug/L	EPA 8260B	5/10/03	121	120	0.895	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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

Report Number : 33049

Date : 5/14/2003

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	5/10/03	99.7	70-130
Toluene	40.0	ug/L	EPA 8260B	5/10/03	99.4	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/10/03	105	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/10/03	113	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. 33049 Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: WEGE 1386 Benner Woodland

Phone No.: 530-668-5300
FAX No.: 530 662 0273

Project Number: DP793
P.O. No:

Project Name: DP793

Project Address: Park Blvd Oakland

California EDF Report? ☐ Yes ☒ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

Global ID:

EDF Deliverable To (Email Address): wegelab@cal.net

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
Carbon Discharge	5/6/03	1025	3		✓		✓		✓						✓									4	01

Relinquished by:	Date	Time	Received by:
[signature]	5/8/03	1605	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	050803	1605	Michelle Woodruff / Kiff Analytical

Remarks:

Bill to:

Forms/coc 121001.fh9

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

NOTIFICATION OF EBMUD TEST RESULTS

EAST BAY
MUNICIPAL UTILITY DISTRICT

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

June 2, 2003

Mr. George Converse
Desert Petroleum, Inc.
1386 E. Beamer Street
Woodland, CA 95776

Dear Mr. Converse:

Re: Wastewater Discharge Permit No.50435501
Discharge Location - 4035 Park Boulevard, Oakland

East Bay Municipal Utility District (EBMUD) inspected the subject facility and sampled the wastewater discharge on May 6, 2003. The measured parameters are in compliance with your Wastewater Discharge Permit.

The test results of the samples and corresponding discharge Permit limitations are shown in the table below. A copy of the EBMUD Laboratory Analytical Report is attached.

Date	Location	Sample No.	Type	Parameter	Result
05/06/03	PSP 1	L104598-1	grab	Benzene	< 0.00050
05/06/03	PSP 1	L104598-1	grab	Ethyl Benzene	< 0.00080
05/06/03	PSP 1	L104598-1	grab	Toluene	< 0.00070
05/06/03	PSP 1	L104598-1	grab	Total Xylenes	< 0.00330

Note: All units are mg/L .

If you have any questions regarding the inspection or the sample results, please contact me.

Sincerely,

Molly Ong

Molly Ong
(510)287-1618
Wastewater Control Representative
Industrial Discharge Section

EBMUD - Mail Slot # 702
Environmental Services Division
P.O. Box 24055
Oakland, CA 94623-1055

EBMUD Laboratory
Analytical Report

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

Laboratory Report - L104598

LSR # - B941-0001-1 Project Title: Desert Petoleum - DP793 GW 1 gw-lo

Report generated on: May 22, 2003 10:01 pm

2 - Samples received by the lab on: May 06 2003, 02:14 pm
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time met

KENNETH GERSTMAN

WILLIAM M. ELLGAS 5/23/03

Please route this report to:

Client PM: MOLLY ONG

mples included in this report:

Sample	Type	Collected	Site	Locator	ClientID
L104598-1	GRAB	06-May-2003 10:00	IW S	DP793 GW 1	-
L104598-2	QCFB	06-May-2003 10:00	IW S	DP793 GW 1	-

Legend to the laboratory qualifiers used in this report:
N - Spike recovery outside of control limits
U - Analyte not detected

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1 Groundwater discharge
Lab ID: L104598-1
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 06 2003, 10:00am Sample collector: A Comeaux
Date Received: May 06 2003, 02:14pm Sample receiver: JLI
Sample Comments: Sample clear and odorless

Method Reference / Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix / Tag RL/ML
Method: EPA 624 - Volatile Organics: GC/MS						WasteH2O
TARGET ANALYTES						
DICHLORODIFLUOROMETHANE	U	0.90	ug/L	10	0.90	
CHLOROMETHANE	U	1.0	ug/L	10	1.0	
VINYL CHLORIDE	U	0.70	ug/L	10	0.70	
1,3-BUTADIENE	U,N	2.0	ug/L	10	2.0	
BROMOMETHANE	U	2.1	ug/L	10	2.1	
CHLOROETHANE	U	1.9	ug/L	10	1.9	
FLUOROTRICHLOROMETHANE	U	1.5	ug/L	10	1.5	
ETHYL ETHER	U	5.0	ug/L	10	5.0	
ACROLEIN	U,N	200	ug/L	10	200	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	1.0	ug/L	10	1.0	
1,1-DICHLOROETHENE	U	0.50	ug/L	10	0.50	
ACETONE	U,N	60	ug/L	10	60	
IODOMETHANE	U	5.0	ug/L	10	5.0	
CARBON DISULFIDE	U	1.0	ug/L	10	1.0	
ALLYL CHLORIDE	U	5.0	ug/L	10	5.0	
METHYLENE CHLORIDE	U	0.70	ug/L	10	0.70	
TERT-BUTYL ALCOHOL	U	250	ug/L	10	250	
ACRYLONITRILE	U	10	ug/L	10	10	
METHYL-T-BUTYL ETHER	U	5.0	ug/L	10	5.0	
TRANS-1,2-DICHLOROETHENE	U	1.4	ug/L	10	1.4	
DIISOPROPYL ETHER	U	5.0	ug/L	10	5.0	
VINYL ACETATE	U,N	2.0	ug/L	10	2.0	
1,1-DICHLOROETHANE	U	0.70	ug/L	10	0.70	
ETHYL-T-BUTYL ETHER	U	5.0	ug/L	10	5.0	
2-BUTANONE	U	30	ug/L	10	30	
ETHYL ACETATE	U	1.0	ug/L	10	1.0	
SEC-DICHLOROPROPANE	U	1.7	ug/L	10	1.7	
CIS-1,2-DICHLOROETHENE	U	0.50	ug/L	10	0.50	
METHYLACRYLATE	U	5.0	ug/L	10	5.0	
METHYLACRYLONITRILE	U	5.0	ug/L	10	5.0	
BROMOCHLOROMETHANE	U	1.4	ug/L	10	1.4	
TETRAHYDROFURAN	U	100	ug/L	10	100	
CHLOROFORM	U	0.70	ug/L	10	0.70	
1,1,1-TRICHLOROETHANE	U	0.80	ug/L	10	0.80	
1-CHLOROBUTANE	U	5.0	ug/L	10	5.0	
1,1-DICHLOROPROPENE	U	0.70	ug/L	10	0.70	
CARBON TETRACHLORIDE	U	1.4	ug/L	10	1.4	
BENZENE	U	0.50	ug/L	10	0.50	
1,2-DICHLOROETHANE	U	0.60	ug/L	10	0.60	
TERT-AMYL METHYL ETHER	U	5.0	ug/L	10	5.0	
TRICHLOROETHENE	U	0.50	ug/L	10	0.50	
1,2-DICHLOROPROPANE	U	1.2	ug/L	10	1.2	
METHYLMETHACRYLATE	U	5.0	ug/L	10	5.0	
DIBROMOMETHANE	U	0.90	ug/L	10	0.90	
BROMODICHLOROMETHANE	U	0.40	ug/L	10	0.40	
2-CHLOROETHYLVINYL ETHER	U,N	1.0	ug/L	10	1.0	
2-NITROPROPANE	U,N	5.0	ug/L	10	5.0	
CHLOROACETONITRILE	U	100	ug/L	10	100	
CIS-1,3-DICHLOROPROPENE	U	0.70	ug/L	10	0.70	
4-METHYL-2-PENTANONE	U	4.0	ug/L	10	4.0	
1,1-DICHLORO-2-PROPANONE	U	10	ug/L	10	10	

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B941-0001-1 - Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1 Groundwater discharge
Lab ID: L104598-1
Sample Type: GRAB (Instantaneous Grab)
Date Collected: May 06 2003, 10:00am Sample collector: A Comeaux
Date Received: May 06 2003, 02:14pm Sample receiver: JLI
Sample Comments: Sample clear and odorless

Method Reference

Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
TOLUENE	U	0.70	ug/L	10	0.70		
TRANS-1,3-DICHLOROPROPENE	U	0.20	ug/L	10	0.20		
ETHYLMETHACRYLATE	U,N	5.0	ug/L	10	5.0		
1,1,2-TRICHLOROETHANE	U	0.30	ug/L	10	0.30		
TETRACHLOROETHENE	U,N	1.1	ug/L	10	1.1		
1,3-DICHLOROPROPANE	U	0.70	ug/L	10	0.70		
2-HEXANONE	U	1.0	ug/L	10	1.0		
DIBROMOCHLOROMETHANE	U	0.60	ug/L	10	0.60		
ETHYLENE DIBROMIDE	U	1.0	ug/L	10	1.0		
CHLOROBENZENE	U	0.50	ug/L	10	0.50		
1,1,1,2-TETRACHLOROETHANE	U	0.30	ug/L	10	0.30		
ETHYL BENZENE	U	0.80	ug/L	10	0.80		
M+P XYLENES	U	2.2	ug/L	10	2.2		
O-XYLENE	U	1.1	ug/L	10	1.1		
STYRENE	U	0.80	ug/L	10	0.80		
BROMOFORM	U	1.0	ug/L	10	1.0		
ISOPROPYLBENZENE	U	1.1	ug/L	10	1.1		
[illegible]ROMOBENZENE	U	0.80	ug/L	10	0.80		
[illegible]ANS-1,4-DICHLORO-2-BUTENE	U	5.0	ug/L	10	5.0		
1,1,2,2-TETRACHLOROETHANE	U	1.1	ug/L	10	1.1		
1,2,3-TRICHLOROPROPANE	U	0.80	ug/L	10	0.80		
N-PROPYLBENZENE	U	0.90	ug/L	10	0.90		
O-CHLOROTOLUENE	U	1.2	ug/L	10	1.2		
P-CHLOROTOLUENE	U	0.80	ug/L	10	0.80		
1,3,5-TRIMETHYLBENZENE	U	1.8	ug/L	10	1.8		
TERT-BUTYLBENZENE	U	0.80	ug/L	10	0.80		
PENTACHLOROETHANE	U,N	2.0	ug/L	10	2.0		
1,2,4-TRIMETHYLBENZENE	U	3.5	ug/L	10	3.5		
SEC-BUTYLBENZENE	U	1.0	ug/L	10	1.0		
1,3-DICHLOROBENZENE	U	0.60	ug/L	10	0.60		
P-ISOPROPYLTOLUENE	U	0.80	ug/L	10	0.80		
1,4-DICHLOROBENZENE	U	0.40	ug/L	10	0.40		
1,2-DICHLOROBENZENE	U	0.50	ug/L	10	0.50		
N-BUTYLBENZENE	U	1.0	ug/L	10	1.0		
BIS(2-CHLOROISOPROPYL)ETHER	U	6.0	ug/L	10	6.0		
HEXACHLOROETHANE	U	10	ug/L	10	10		
DIBROMOCHLOROPROPANE	U	4.7	ug/L	10	4.7		
NITROBENZENE	U	200	ug/L	10	200		
1,2,4-TRICHLOROBENZENE	U	1.1	ug/L	10	1.1		
HEXACHLOROBUTADIENE	U	1.2	ug/L	10	1.2		
NAPHTHALENE	U	1.0	ug/L	10	1.0		
1,2,3-TRICHLOROBENZENE	U	1.1	ug/L	10	1.1		
INTERNAL STANDARD							
FLUOROBENZENE		72.2	% recovery	1.00			
D5-CHLOROBENZENE		67.6	% recovery	1.00			
D4-1,4-DICHLOROBENZENE	N	46.6	% recovery	1.00			
SURROGATE PARAMETERS							
DIBROMOFLUOROMETHANE		110	% recovery	1.00			
D4-DICHLOROETHANE		117	% recovery	1.00			
D8-TOLUENE		94.2	% recovery	1.00			
4-BROMOFLUOROBENZENE		74.0	% recovery	1.00			

[illegible] ID: R114632 / Work Group No.: WG102843
[illegible]o Date1: 09-MAY-03 Analyzed 09-MAY-03

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level

EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1 Groundwater discharge
Lab ID: L104598-2
Sample Type: QCFB (Field Blank Grab)
Date Collected: May 06 2003, 10:00am Sample collector: A Comeaux
Date Received: May 06 2003, 02:14pm Sample receiver: JLI
Sample Comments: QCFB for L104598-1 Prep'd on 05/05/03 by TCB; Acid lot#052901 / L90173-1

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
Method: EPA 624 - Volatile Organics: GC/MS							
TARGET ANALYTES						WasteH2O	
DICHLORODIFLUOROMETHANE	U	0.090	ug/L	1.0	0.090		
CHLOROMETHANE	U	0.10	ug/L	1.0	0.10		
VINYL CHLORIDE	U	0.070	ug/L	1.0	0.070		
1,3-BUTADIENE	U	0.20	ug/L	1.0	0.20		
BROMOMETHANE	U	0.21	ug/L	1.0	0.21		
CHLOROETHANE	U	0.19	ug/L	1.0	0.19		
FLUOROTRICHLOROMETHANE	U	0.15	ug/L	1.0	0.15		
ETHYL ETHER	U	0.50	ug/L	1.0	0.50		
ACROLEIN	U	20	ug/L	1.0	20		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.10	ug/L	1.0	0.10		
1,1-DICHLOROETHENE	U	0.050	ug/L	1.0	0.050		
ACETONE	U	6.0	ug/L	1.0	6.0		
IODOMETHANE	U	0.50	ug/L	1.0	0.50		
CARBON DISULFIDE	U	0.10	ug/L	1.0	0.10		
ALLYL CHLORIDE	U	0.50	ug/L	1.0	0.50		
METHYLENE CHLORIDE	U	0.070	ug/L	1.0	0.070		
TERT-BUTYL ALCOHOL	U	25	ug/L	1.0	25		
ACRYLONITRILE	U	1.0	ug/L	1.0	1.0		
METHYL-T-BUTYL ETHER	U	0.50	ug/L	1.0	0.50		
TRANS-1,2-DICHLOROETHENE	U	0.14	ug/L	1.0	0.14		
DIISOPROPYL ETHER	U	0.50	ug/L	1.0	0.50		
VINYL ACETATE	U	0.20	ug/L	1.0	0.20		
1,1-DICHLOROETHANE	U	0.070	ug/L	1.0	0.070		
ETHYL-T-BUTYL ETHER	U	0.50	ug/L	1.0	0.50		
2-BUTANONE	U	3.0	ug/L	1.0	3.0		
ETHYL ACETATE	U	0.10	ug/L	1.0	0.10		
SEC-DICHLOROPROPANE	U	0.17	ug/L	1.0	0.17		
CIS-1,2-DICHLOROETHENE	U	0.050	ug/L	1.0	0.050		
METHYLACRYLATE	U	0.50	ug/L	1.0	0.50		
METHYLACRYLONITRILE	U	0.50	ug/L	1.0	0.50		
BROMOCHLOROMETHANE	U	0.14	ug/L	1.0	0.14		
TETRAHYDROFURAN	U	10	ug/L	1.0	10		
CHLOROFORM	U	0.070	ug/L	1.0	0.070		
1,1,1-TRICHLOROETHANE	U	0.080	ug/L	1.0	0.080		
1-CHLOROBUTANE	U	0.50	ug/L	1.0	0.50		
1,1-DICHLOROPROPENE	U	0.070	ug/L	1.0	0.070		
CARBON TETRACHLORIDE	U	0.14	ug/L	1.0	0.14		
BENZENE	U	0.050	ug/L	1.0	0.050		
1,2-DICHLOROETHANE	U	0.060	ug/L	1.0	0.060		
TERT-AMYL METHYL ETHER	U	0.50	ug/L	1.0	0.50		
TRICHLOROETHENE	U	0.050	ug/L	1.0	0.050		
1,2-DICHLOROPROPANE	U	0.12	ug/L	1.0	0.12		
METHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50		
DIBROMOMETHANE	U	0.090	ug/L	1.0	0.090		
BROMODICHLOROMETHANE	U	0.040	ug/L	1.0	0.040		
2-CHLOROETHYLVINYL ETHER	U	0.10	ug/L	1.0	0.10		
2-NITROPROPANE	U	0.50	ug/L	1.0	0.50		
CHLOROACETONITRILE	U	10	ug/L	1.0	10		
CIS-1,3-DICHLOROPROPENE	U	0.070	ug/L	1.0	0.070		
METHYL-2-PENTANONE	U	0.40	ug/L	1.0	0.40		
1,3-DICHLORO-2-PROPANONE	U	1.0	ug/L	1.0	1.0		

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Analytical Results Report

LSR#: B941-0001-1 Desert Petoleum - DP793 GW 1 gw-lo
Site: IW S Industrial Waste - South Interceptor
Locator: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland. Side Sewer 1 Groundwater discharge
Lab ID: L104598-2
Sample Type: QCFB (Field Blank Grab)
Date Collected: May 06 2003, 10:00am Sample collector: A Comeaux
Date Received: May 06 2003, 02:14pm Sample receiver: JLI
Sample Comments: QCFB for L104598-1 Prep'd on 05/05/03 by TCB; Acid lot#052901 / L90173-1

Method Reference Parameter	Qualifier	Result	Units	Dilution	MDL	Matrix RL/ML	Tag
TOLUENE	U	0.070	ug/L	1.0	0.070		
TRANS-1,3-DICHLOROPROPENE	U	0.020	ug/L	1.0	0.020		
ETHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50		
1,1,2-TRICHLOROETHANE	U	0.030	ug/L	1.0	0.030		
TETRACHLOROETHENE	U	0.11	ug/L	1.0	0.11		
1,3-DICHLOROPROPANE	U	0.070	ug/L	1.0	0.070		
2-HEXANONE	U	0.10	ug/L	1.0	0.10		
DIBROMOCHLOROMETHANE	U	0.060	ug/L	1.0	0.060		
ETHYLENE DIBROMIDE	U	0.10	ug/L	1.0	0.10		
CHLOROBENZENE	U	0.050	ug/L	1.0	0.050		
1,1,1,2-TETRACHLOROETHANE	U	0.030	ug/L	1.0	0.030		
ETHYL BENZENE	U	0.080	ug/L	1.0	0.080		
M+P XYLENES	U	0.22	ug/L	1.0	0.22		
O-XYLENE	U	0.11	ug/L	1.0	0.11		
STYRENE	U	0.080	ug/L	1.0	0.080		
BROMOFORM	U	0.10	ug/L	1.0	0.10		
ISOPROPYLBENZENE	U	0.11	ug/L	1.0	0.11		
BROMOBENZENE	U	0.080	ug/L	1.0	0.080		
TRANS-1,4-DICHLORO-2-BUTENE	U	0.50	ug/L	1.0	0.50		
1,1,2,2-TETRACHLOROETHANE	U	0.11	ug/L	1.0	0.11		
1,2,3-TRICHLOROPROPANE	U	0.080	ug/L	1.0	0.080		
N-PROPYLBENZENE	U	0.090	ug/L	1.0	0.090		
O-CHLOROTOLUENE	U	0.12	ug/L	1.0	0.12		
P-CHLOROTOLUENE	U	0.080	ug/L	1.0	0.080		
1,3,5-TRIMETHYLBENZENE	U	0.18	ug/L	1.0	0.18		
TERT-BUTYLBENZENE	U	0.080	ug/L	1.0	0.080		
PENTACHLOROETHANE	U	0.20	ug/L	1.0	0.20		
1,2,4-TRIMETHYLBENZENE	U	0.35	ug/L	1.0	0.35		
SEC-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10		
1,3-DICHLOROBENZENE	U	0.060	ug/L	1.0	0.060		
P-ISOPROPYLTOLUENE	U	0.080	ug/L	1.0	0.080		
1,4-DICHLOROBENZENE	U	0.040	ug/L	1.0	0.040		
1,2-DICHLOROBENZENE	U	0.050	ug/L	1.0	0.050		
N-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10		
BIS(2-CHLOROISOPROPYL)ETHER	U	0.60	ug/L	1.0	0.60		
HEXACHLOROETHANE	U	1.0	ug/L	1.0	1.0		
DIBROMOCHLOROPROPANE	U	0.47	ug/L	1.0	0.47		
NITROBENZENE	U	20	ug/L	1.0	20		
1,2,4-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11		
HEXACHLOROBUTADIENE	U	0.12	ug/L	1.0	0.12		
NAPHTHALENE	U	0.10	ug/L	1.0	0.10		
1,2,3-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11		
INTERNAL STANDARD							
FLUOROBENZENE		74.4	% recovery	1.00			
D5-CHLOROBENZENE		69.8	% recovery	1.00			
D4-1,4-DICHLOROBENZENE	N	49.2	% recovery	1.00			
SURROGATE PARAMETERS							
DIBROMOFLUOROMETHANE		107	% recovery	1.00			
D4-DICHLOROETHANE		113	% recovery	1.00			
D8-TOLUENE		94.4	% recovery	1.00			
4-BROMOFLUOROBENZENE		77.4	% recovery	1.00			

Run ID: R114632 / Work Group No.: WG102843
Prep Date1: 09-MAY-03 Analyzed 09-MAY-03

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East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

g or
No.: L104598

Project Title
Desert Petoleum - DP793 GW 1 gw-lo
Account or Project: B941-0001-1

Client PM: MOLLY ONG
Tel No.: 1618
Lab PM: KENNETH GERSTMAN

Sampled by: A Comeaux
Rcvd: 06-MAY-03 14:14
Sample Date: 06-MAY-03

	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode		Tests Required	Date Preservative	Initials	DueDate pH
											27-MAY-03
98-1	GRAB	10:00	IW S	DP793 GW 1	WasteH2O	450865	VOA4A	624			
					WasteH2O	450866	VOA4A	624			
					WasteH2O	450867	VOA4A	624			
					WasteH2O			+REPORT			

ntID: Sample Comments: Sample clear and odorless Pricing: STD

											27-MAY-03
598-2	QCFB	10:00	IW S	DP793 GW 1	DrinkH2O	450767	A250	+HOLD			
					WasteH2O	450768	VOA4A	624			

ntID: Sample Comments: QCFB for L104598-1 Prep'd on 05/05/03 by TCB; Acid lot#052901 / L90171-1 Pricing: STD

Total containers received: 5

	Signature	Print Name	Time	Date
inquished by				
eived by				
inquished by				
eived by				
inquished by				
ceived by		Joaquin Li	14:14	06-MAY-03

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

log or
in No.: L104598

Project Title
Desert Petoleum - DP793 GW 1 gw-lo
Account or Project: B941-0001-1

Client PM: MOLLY ONG
Tel No.: 1618
Lab PM: KENNETH GERSTMAN

Sampled by: A Comeaux
Rcvd: 06-MAY-03 14:14
Sample Date: 06-MAY-03

	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode		Tests Required	Preservative	Date Initials	DueDate pH
04598-1	GRAB	10:00	IW S	DP793 GW 1	WasteH2O	450865	VOA4A	624			27-MAY-03
					WasteH2O	450866	VOA4A	624			
					WasteH2O	450867	VOA4A	624			
					WasteH2O			+REPORT			
ientID:	Sample Comments: Sample clear and odorless Pricing: STD										
04598-2	QCFB	10:00	IW S	DP793 GW 1	WasteH2O	~~450766~~	~~VOA4A~~	~~624~~			27-MAY-03
					DrinkH2O	450767	A250	+HOLD			
					WasteH2O	450768	VOA4A	624			
ientID:	Sample Comments: QCFB for L104598-1 Prep'd on 05/05/03 by TCB, Acid lot#~~082403~~ ~~L99663-1~~ Pricing: STD										

Total containers received: 6

	Signature	Print Name	Time	Date
linquished by				
ceived by				
linquished by				
ceived by				
linquished by				
ceived by		Joaquin Li	14:14	06-MAY-03

Type Codes: CF01;CF02;CF03;CFV;COMP;CT01;CT02;CT03
CT04;CT05;CT06;CT07;CT08;CTV;GRAB

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

ogin No:	Project Title: **Desert Petroleum**	Client PM: Molly Ong	Sampled by: Audrey L. Comeaux
104598	Account: 504-35501	Tel No: 287-1618	
	LSR# **B941-0001-1**	Lab PM: K. Gerstman	Sample Date: 05-06-03

Lab No.	Sample Type	Collection Date/Time	Site	Locator	Sample Matrix	C	P	No. Cont/type	Tests Required	Comments/Remarks
-1	Grab	5-06-03 1000 hours	IW S	DP793GW 1	02				EPA 624 +REPORT	samples clear and odorless
	Grab	5-06-03 1000 hours							+ Field Blank	

	Signature	Print Name	Time	Date
Relinquished by:	A L Comeaux	Audrey L. Comeaux	1414	5-06-03
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:	Joaquin Li	Joaquin Li	1414	5/6/03

Comments

Sample Type code: GRAB, COMP (mult loc)
24 hr flow composites, cont. = CF01
each 3 hr. = CF02, variable flow = CFV
24 hr time composites, each 1 hr. = CT01
each 2 hr. = CT02, each 3 hr. = CT03
each 8 hr. = CT04, each 4 hr. = CT09
each 15 min = CT15, variable time = CTV
QCTB = Trip blank QCFB = Field blank

Check C = Appropriate Container type verified?
Check P = Appropriate Preservation verified?

ample Matrix: 01 DrinkH_2O; 02 WasteH_2O; 03 Ground H_2O; 04 Salt H_2O; 05 Sludge; 06 Soil; 07 Air; 08 Bio Mat'l; 09 Misc Solid; 10 Liq Non-water; 11 Raw H_2O 12 MiscH_2O