

PO-429

desert petroleum inc.

Mr. Bob Schultz  
Alameda County Health Care Services  
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October 26, 2004

ALAMEDA COUNTY  
OCT 24 2004  
[Faint stamp]

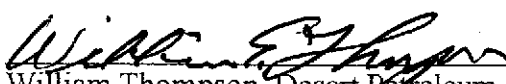
RE: The following report documents the third quarter 2004 sampling at DP793, 4035 Park Blvd., Oakland, California 94602.

Dear Mr. Schultz:

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

I  agree  disagree with the scope and findings.

Sincerely,

  
William Thompson, Desert Petroleum, Inc.

10/26/04  
date

Approved for  
NOV 24 2004  
D. J. [unclear]

THIRD QUARTER 2004  
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

**October 26, 2004**

BY

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

*George Edwards*

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**WESTERN  
GEO-ENGINEERS**  
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REGISTERED GEOLOGISTS

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(805) 644-6784 FAX (805) 654-0720

October 25, 2004

Dear Mr. Thompson:

The following report documents the third quarter 2004 sampling at DP793, 4035 Park Blvd., Oakland, California.

## **1.0 SITE LOCATION AND IDENTIFICATION NUMBERS**

Former Desert Petroleum #793 is a non-active service station (USTs and associated piping removed June 23, 1994), located on the northwest corner of the intersection of Park Boulevard and Hampel Street at 4035 Park Blvd., Oakland, California (Figure 1). The site is located in projected section 32; T1S; R3W; MDB&M at an approximate elevation of 210 feet above mean sea level (Figure 2).

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

## **2.0 SITE INVESTIGATION/REMEDIATION CHRONOLOGY**

- November 30, 1989 Alameda County Health Department (Mr. Ariu Levi) notified Desert Petroleum that gasoline was trickling into a sewer on Brighton Avenue through a crack in the bottom of the sewer access. Desert Petroleum's area manager sent to site to reconstruct and audit tank inventories and sales records. The audit indicated overages on all tanks.
- December 1, 1989 Desert Petroleum contacted the station tenant, Mr. Jason Gopad, and advised him to test the fuel tanks and associated piping.
- December 5, 1989 The retail fueling facility was closed.
- December 6, 1989 Mr. Gopad had the underground storage tanks tested. The test results were inconclusive.
- December 7, 1989 All fuel was removed from the underground storage tanks. The product lines were tested by Walton Engineering. The regular leaded and super unleaded lines passed. The regular unleaded line failed. A 1/2 inch hole in the 2 inch unleaded supply line was located beneath the eastern pump island. An ultrasound investigation was conducted to determine the location of the onsite sewer line. An onsite soil gas survey was conducted and indicated

- contamination associated with the pump islands and the sewer line on the western edge of the property.
- December 8, 1989 Desert Petroleum submitted Unauthorized Release Report, drilling permits for site assessment obtained from Alameda County Flood Control and Water Conservation District, Zone 7, Underground Service Alert was notified.
- December 11, 1989 Onsite drilling/sampling and well installation initiated. Sample borings RS-1, RS-2, RS-3, RS-5 and RS-4. Groundwater monitoring wells installed into borings RS-1, RS-5, and RS-6. Vapor extraction well installed into boring RS-2.
- December 12, 1989 Encroachment permit secured from the City of Oakland for assessment work in Brighton Avenue. Sample boring RS-4 drilled and sampled just east of the sewer access in Brighton Avenue to the 10 foot depth.
- December 13, 1989 The area northeast of the sewer access was excavated with a backhoe. Gasoline appeared to be seeping from the backfill around the sewer line. A water supply line was inadvertently broke (USA markings incorrectly marked the location of this line). A vacuum truck was used to pump out the water/product from the excavation. Approximately 7,200 gallons of water/gasoline was manifested and sent to H & H Shipyard for treatment and disposal. The water line was repaired, perforated 4 inch PVC pipe was placed vertically into the excavation and the excavation backfilled with pea gravel from approximately the 8 foot depth to subgrade, well RS-7. A portable vapor extraction unit connected to the sewer and RS-7 (operated during daylight hours).
- December 15, 1989 RSI S.A.V.E. vapor extraction system installed and connected to onsite wells RS-1, RS-2, RS-5 and RS-6. Operated continuously for one week, then during daylight hours thereafter due to noise disturbance of neighbors. Length of vapor extraction and amounts of hydrocarbons removed not documented.
- July 24, 1990 Soil boring/sampling investigations near the sewer lateral in residential backyard 1227 Hampel Avenue.
- August 21, 1990 Soil boring/sampling investigations near the sewer lateral in residential backyards 4006 Brighton Avenue and 4010/4012 Brighton Avenue.
- December 1990 Commenced quarterly groundwater monitoring.
- September 8, 1993 Levine - Fricke, conducted soil boring/sampling investigation at residences 4003 Park Blvd. and 4006 Brighton Avenue. Constructed monitor well at 4003 Park Blvd for property owner of 4003 Park Blvd (not a part of 4035 Park Blvd. site assessment/investigation).
- June 23, 1994 Removed all USTs and associated piping from 4035 Park Blvd.
- August 14, 1995 Over-excavated UST and dispenser areas at 4035 Park Blvd, 1700 cubic yards of non-hazardous soil transported to and disposed at Forward Landfill, Stockton, California. Installed excavation well R3 (6 inch slotted PVC to 15 feet below surface) south of building, backfill excavation to 5 1/2 feet below surface with 1/4 inch pea gravel. Excavating removed monitor well RS-1.
- August 16, 1995 Excavated and removed hydraulic hoists from station building.

August 31, 1995 Exploratory excavation at waste oil UST area, north of building and exploratory excavation west of building to 17 feet below surface. Installed excavation wells R1 in west excavation and R2 in north excavation.

September 5, 1995 Drill/sampled and installed replacement well for RS-1 (MW-1).

May 2, 1996 Soil Probe Survey and soil sample borings along sewer route from 4035 Park Blvd. through back yards, to Brighton Avenue. Temporary casing set in hand augered borings BH-1, BH-2, BH-3, BH-4 and BH-5. Conducted slug tests on BH-1, BH-2, BH-3 and BH-5. Not enough water entry into BH-4 to conduct test. The following hydraulic conductivities (k) were calculated; BH-1 = 0.15 ft/day, BH-2 = 2.9 ft/day, BH-3 = 0.11 ft/day, and BH-5 = 4.8 ft/day.

January 17, 1997 Soil Probe Survey Brighton Avenue

August 12, 1999 Installed receptor trench, Brighton Avenue. 148 cubic yards non hazardous gasoline contaminated soil transported and disposed of at Vacaville Landfill, Vacaville, California. Installed wells RS-8, RS-9 and RS-10.

October 7, 1999 Pumped 19,451 gallons of gasoline contaminated groundwater from receptor trench, stored in above ground 22,000 gallon Baker tank.

January 24, 2000 Obtained sewer discharge permit from East Bay Municipal Utility District, started discharge of water stored in Baker tank to city sewer.

May 4, 2000 Started weekly purging of receptor trench well T1 (4 hours once per week). Discharged purged water through water carbon and then to sewer.

February 15, 2001 Set submersible pump in RS-5 to pump continuously, continued once a week purging of receptor well T1 (46,121 gallons removed from receptor trench well).

July 19, 2001 Ceased pumping of RS-5 and weekly purging of T1; 62,511 gallons removed from T1 and 78,919 gallons removed from RS-5 (total 141,430 gallons of gasoline contaminated groundwater treated and disposed to sewer).

March 21, 2002 Resumed pumping at RS-5.

August 6, 2002 246,849 gallons of gasoline contaminated groundwater pumped, treated and disposed to sewer.

November 20, 2002 Commenced weekly hand bailing of free phase product from well RS-8.

December 12, 2002 Purged receptor trench of 1432 gallons gasoline tainted groundwater.

January 9, 2003 Purged receptor trench of 1349 gallons gasoline tainted groundwater.

January 30, 2003 Purged receptor trench of 1624 gallons gasoline tainted groundwater.

March 13, 2003 Purged receptor trench of 1413 gallons gasoline tainted groundwater.

April 3, 2003 Purged receptor trench of 1305 gallons gasoline tainted groundwater.

April 9, 2003 Demolished existing service station building.

April 15, 2003 Replaced RS05 groundwater recovery pump with WEGE pump, while RS05 pump is serviced.

May 1, 2003 Reinstalled RS05 groundwater recovery pump.  
Submitted Workplan to Investigate Contaminated Soils Above and Below the Water Table at the Former Area of the Station Building, 4035 Park Blvd., Oakland, CA.

May 6, 2003 Purged receptor trench of 1589 gallons gasoline tainted groundwater.

May 21, 2003 Purged receptor trench of 2544 gallons gasoline tainted groundwater.

June 25, 2003 Purged receptor trench of 1796 gallons gasoline tainted groundwater.

July 17, 2003	Purged receptor trench of 1560 gallons gasoline tainted groundwater.
July 31, 2003	Notice to initiate Workplan submitted May 1, 2003
August 6, 2003	Alameda County Health, Scott Seery, phoned Western Geo-Engineers, notifying them not to proceed with workplan.
August 13, 2003	Purged receptor trench of 1574 gallons gasoline tainted groundwater.
September 4, 2003	Purged receptor trench of 1477 gallons gasoline tainted groundwater.
October 3, 2003	Purged receptor trench of 1285 gallons gasoline tainted groundwater.
October 16, 2003	Removed water carbon unit #1, placed new water carbon in #2 position and moved #2 water carbon into #1 position.
November 20, 2003	Purged receptor trench of 1303 gallons gasoline tainted groundwater.
December 18, 2003	Purged receptor trench of 1303 gallons gasoline tainted groundwater.
January 22, 2004	Purged receptor trench of 1175 gallons gasoline tainted groundwater.
February 26, 2004	Purged receptor trench of 102 gallons gasoline tainted groundwater.
March 30, 2004	Purged receptor trench of 975 gallons gasoline tainted groundwater.
April 29, 2004	Purged receptor trench of 1406 gallons gasoline tainted groundwater.
May 13, 2004	Turned pumping system off, removed lid from #1 carbon and removed scaling from top of carbon, replaced lid and restarted pump.
May 27, 2004	Purged receptor trench of 1647 gallons gasoline tainted groundwater.
June 30, 2004	Purged receptor trench of 1759 gallons gasoline tainted groundwater.
July 29, 2004	No electrical power to treatment compound; has been disconnected.
September 24, 2004	New power pannel at site, need 100 feet extension cord to connect pump controller to power for RS-5.
September 28, 2004	Restarted pumping at RS-5. Perform 1/4ly well samplings. Purged receptor trench of 1911 gallons.

### 3.0 LOCAL GEOLOGY

#### 3.1 Geomorphology

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

#### 3.2 Stratigraphy

##### Station Property

The native soil from surface to 13 feet below ground surface (BGS) consists of dark brown silty clay. The dark brown clay is underlain by light brown stiff clay that includes subrounded to rounded metavolcanic gravel. This clay extends to approximately 23 feet BGS at the northwest corner of the site. A fine to medium sand, clayey sand, and silty sand underlies the gravel and clay.

## Backyard Sewer Lateral Route

Assessments performed along the sewer lateral as it leaves the site and routes through the residential area towards Brighton Avenue show the subsurface to consist of fill from a couple of inches thick to two feet thick. Beneath the fill is a sequence of clay formations that vary from light brown to dark gray to approximately the 6 foot depth. Silty clay then extends to approximately the 14-foot depth. Beneath the silty clay is sand with occasional gravel. This sand is 11 feet thick at RS5 and is underlain by silty clay.

## Brighton Avenue

Construction of the receptor trench along the eastern curb area of Brighton Avenue revealed two separate sequences of lithology. North of the storm drain catch basin the sequence consists of, clay to the four foot depth, silty clay to the seven foot depth, fine silty sand to the 9 foot depth, medium sand to the 10 foot depth, silty clay to the 11 ½ foot depth, gravel to the 12 foot depth underlain by clay to the 16 foot depth. South of the storm catch basin is a sequence of silty clays and clays to depth.

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

## 4.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES

Groundwater samples were collected on September 28, 2004. Samples were analyzed for Total Petroleum Hydrocarbons as gasoline, Benzene, Toluene, Ethylbenzene, Xylenes and the fuel oxygenant Methyl tert-Butyl 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 September 28, 2004 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 September 28, 2004.



## 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 September 28, 2004, prior to purging the wells for sampling, see Table 1 and Appendix A. On February 15, 2001 a submersible pump was placed into onsite well RS-5 to try and capture contaminated groundwater beneath the site and adjoining properties. The pump rate was set at approximately 2 gpm. The pump was removed from RS-5 on July 19, 2001. After evaluation of the effects the pumping had on remediating the site the pump was placed back into RS-5 on March 21, 2002. As shown on the groundwater elevation chart generated for each well, pumping from RS5 lowers the water levels in RS-6, RS-8, RS-10, R1 and R2, 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 0.072 feet/linear foot down gradient of MW1 to RS10. The hydraulic gradient averages 0.067 feet/linear foot down gradient of RS10 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 steep groundwater slope west of the site at off site well LF1. There was no pumping at RS5 since prior to July 29, 2004 and no measurable precipitation to influence the groundwater gradient measured on September 28, 2004. 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 September 28, 2004 are shown in Table 1.

TPH-G concentrations in water samples from the eight monitor wells, the receptor trench well and two recovery wells ranged from 8700 ug/L at the receptor trench well T1, to below laboratory lower detection limits of 50 ug/L in wells MW1, RS2, RS6, RS10 and LF1. No free phase product was found in Well RS8 during this quarter.

Benzene concentrations ranged from a maximum of 2600 ug/L at the receptor trench well T1 to below the laboratory lower detection limits (0.5 ug/L) at wells MW1, RS2, RS6, and LF1, see Appendix C - Laboratory Report.

Analysis results for Oxygenant MtBE was below the laboratory lower detection limit in wells MW1, RS2, RS5, RS6, RS8, RS10, R1 and LF1. Well R2 contained MtBE at 0.71 ug/L, RS7 contained MtBE at 2.8 ug/L, RS9 contained MtBE at 31 ug/L and T1 contained MtBE at 15 ug/L. T1, RS7 and RS9 are located within or near Brighton Street, indicating that the MtBE source(s) may be the cars parked along Brighton Street. R2 is located at the northern portion of DP793. During the September 16, 1998 all Fuel Oxygenants; MTBE, Di-isopropyl Ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl-t-Butyl Ether (ETBE) and t-Amyl Methyl Ether (TAME) were

confirmed with EPA Method 8260. These analytes were below laboratory lower detection limits. The presence of TBA at well RS9 detected during the November 2003 sampling most likely indicates the partial oxygenation of MtBE.

Figure 5 (September 28, 2004) shows the lateral distribution of the hydrocarbon plume with benzene distinction in groundwater. No pumping from RS-5 occurred for at least one month prior to obtaining the groundwater samples. The current plume(s) (Figure 5) has increased in concentration at wells RS5, RS7, RS9, RS10, R2, and T1 when compared to the previous quarter sampling (June 10, 2004).

#### TPHg - Figure 5

Total Petroleum Hydrocarbons, gasoline range has a laboratory lower detection limit (LLDL) of 50 ug/L, was detected in wells R1, R2, RS5, RS7, RS8, RS9 and T1 ranging from a low of 500 ug/L at R2 to a high of 8700 ug/L at T1.

#### Benzene - Figure 5

Benzene has a LLDL of 0.5 ug/L. The recommended CPHG (California Public Health Goal) for Benzene is 1.5 ug/L. Benzene was detected in wells R1, R2, RS5, RS7, RS8, RS9, RS10 and T1 ranging from a low of 4.5 ug/L at RS10 to a high of 2600 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 RS5, RS7, RS8, RS9, R1, R2 and T1, ranging from a low of 2 ug/L at well R2 to a high of 100 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 RS5, RS7, RS8, RS9, R1, R2 and T1, ranging from a low of 5 ug/L at well RS9 to a high of 450 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 RS5, RS7, RS8, RS9, R1, R2 and T1, ranging from a low of 2.7 ug/L at well R2 to a high of 240 ug/L at well T1.

## MtBE

MtBE has a LLDL of 0.5 ug/L. The recommended CPHG for MtBE is 13 ug/L. MtBE was detected in wells RS7, RS9, R2 and T1, ranging from a low of 0.71 ug/L at well R2 to a high of 31 ug/L at well RS9, see Table 1 and Appendix C - Laboratory Report.

Appendix D contains charts developed for wells MW1, RS2, RS5, RS6, RS7, RS8, RS9, RS10, R1, R2 and trench well T1 showing TPHg & Benzene concentration with time. All wells display reductions in concentrations with time for both TPHg and Benzene through the June 10, 2004 sampling. Well R1 shows a slight increase in both TPHg and Benzene concentrations for the last two sample events. Wells RS5, RS8 and T1 show a decreasing trend in both TPHg and Benzene concentrations. The most down gradient well RS9 shows a slight increase in both TPHg and Benzene.

### 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. During purging the depth to water within the trench is lowered an average of one foot. Immediately after purging ceases, the water level in the trench recovers to its original depth. Weekly purging of the receptor trench was suspended on July 19, 2001 at the request of Desert Petroleum. 62,511 gallons of contaminated groundwater had been removed from the trench, processed through two, in series, activated carbon water scrubs and discharged to the sanitary sewer. Due to the increase of gasoline range hydrocarbons in downgradient well RS9 sampled on November 5, 2002, the receptor trench was purged on December 12, 2002, removing 1,432 gallons during 5 hours of pumping. Periodic purging of the trench has occurred since that time. As of September 30, 2004 91,859 gallons of groundwater has been pumped from the receptor trench and purged from the groundwater monitoring wells, 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 September 30, 2004, 608,528 gallons of groundwater have been pumped from RS5 and treated through two, in series, water carbon units prior to being discharge to the sanitary sewer, see Table 2.

The pumping from RS-5 lowered the groundwater at this well by at least 15 feet, when compared to the current non pumping water measurements, see Figure 4. 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**

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

## **9.0 SUMMARY**

Until the November 2002 sampling weekly purging of the receptor trench (T1) facilitated the decrease in the TPHg concentrations in down gradient wells RS-7 and RS-9, see Table 1 with charts RS-7. The weekly purging of the receptor trench was limited to a maximum daily discharge of 5 gpm, thus removing approximately 1200 to 2000 gallons per week. Although this does lower the water level in the trench, after pumping has ceased the water level rebounds to it original depth allowing for the gradient migration of TPHg contaminated groundwater to continue.

Pumping from RS-5 has shown to create a cone of influence off-site downgradient out to RS-8 and RS-10. Pumping has increased the dissolved oxygen in RS-5 and hydrocarbon concentrations have declined in R1, R2, R3, RS-5, RS7, RS8, RS9, RS-10 and the Receptor Trench (T1). 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, September 28, 2004 shows continued decrease in hydrocarbons to levels lower than the May 31, 2001 sample results at wells RS5, RS6, RS7, RS10, R1 and R2. And increase in hydrocarbon concentration downgradient of the site at wells RS8, RS9 and T1.

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 too much noise and a more passive oxygen delivery

system was warranted, i.e. hydrogen peroxide or Oxygen Release Compound (ORC). An amended workplan was presented in Appendix G of the 4<sup>th</sup> Quarterly 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 Regensis Inc. to perform a basic model using ORC to determine how to apply, and the amount needed. The Regensis 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 Regensis 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. This workplan was later revised after discussions with Mr. Scott Seery and has been approved, June 8, 2004. Currently an agreement between Desert Petroleum and the current landowner is pending prior to proceeding with the additional drilling/sampling program.

## 10.0 RECOMMENDATIONS

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

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

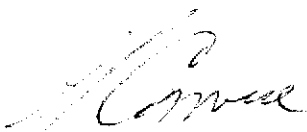
## 11.0 LIMITATIONS

This report is based upon the following:

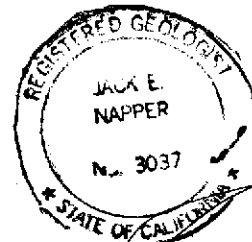
- A. The observations of field personnel.
- B. The results of laboratory analyses performed by a state certified laboratory.
- C. Referenced documents.
- D. Our understanding of the regulations of the State of California, Alameda County and the City of Oakland.
- E. Changes in groundwater conditions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

State Certified Laboratory analytical results are included in this report. This laboratory follows EPA and State of California approved procedures; however, WEGE is not responsible for errors in these laboratory results. Western Geo-Engineers is a corporation under California Registered Geologist #3037 and/or Contractors License #513857. The services performed by Western Geo-Engineers have been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the State of California and the Oakland area. Our work and/or supervision of remediation and/or abatement operations, active or preliminary, at this site is in no way meant to imply that we are owners or operators of this site. Known or suspected contamination of soil and/or groundwater must be reported to the appropriate agencies in a timely manner. No other warranty, expressed or implied, is made.

Sincerely,



George Converse  
Geologist



Jack E. Napper  
Ca. Reg. Geologist #3037

cc: Mr. Bob Schultz, Alameda County Health (510) 567-6719  
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	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)								
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-1	12/14/89	228.15	24.25	203.9	19000	2600	2700	200	1200	
RS-1	12/90				15000	3500	330	170	760	
RS-1	2/91				6900	910	200	39	540	
RS-1	6/91				1600	56	180	12	26	
RS-1	9/91				4100	730	7.6	5.1	24	
RS-1	12/91				8300	950	160	71	190	
RS-1	11/9/92	228.15	17.05	211.1	1700	730	9.6	16	14	
RS-1	4/7/94	228.15	13	215.15	860	84	12	16	110	
RS-1	6/19/94	228.15	13.37	214.78	1400	150	12	52	87	
RS-1	9/17/94	228.15	16.33	211.82	310	30	1.8	2.8	3.9	
RS-1	3/12/95	228.15	4.66	223.49	ND	ND	ND	ND	ND	
DESTROYED BY OVER-EXCAVATION OF UST-DISPENSER AREAS ( 8/14/95)										
REPLACED WITH MW-1 9/5/95.										
MW-1	10/4/95	229.5	12.38	217.12	ND	ND	ND	ND	ND	
MW-1	12/21/95	229.5	13.40	216.1	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	03/27/96	229.5	5.53	223.97	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50
MW-1	06/11/96	229.5	9.02	220.48	< 50	< 0.5	< 0.5	< 0.5	< 2	< 50
MW-1	09/04/96	229.5	11.84	217.66	< 50	< 0.5	< 0.5	< 0.5	< 2	< 5
MW-1	12/11/96	229.5	12.98	216.52	< 50	< 0.5	0.9	< 0.5	< 1	< 0.5
MW-1	2/21/97	229.5	9.50	220	< 50	< 0.5	0.9	< 0.5	< 1	< 0.5
MW-1	5/28/97	229.5	11.18	218.32	< 50	3	3	< 0.5	< 1	< 0.5
MW-1	9/2/97	229.5	13.00	216.5	< 50	5	< 0.5	< 0.5	< 1	< 0.5
MW-1	11/24/97	229.5	14.12	215.38	< 50	5	< 0.5	< 0.5	< 1	< 0.5
MW-1	2/25/98	229.5	6.41	223.09	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5
MW-1	7/8/98	229.5	7.28	222.22	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1
MW-1	9/16/98	229.5	10.96	218.54	< 50	< 0.5	< 0.5	< 0.5	< 1	< 1
MW-1	11/24/98	229.5	12.24	217.26	52	2.3	5.2	< 0.5	5.4	11
MW-1	2/23/99	229.5	7.14	222.36	< 50	< 0.5	5	< 0.5	< 1	< 0.5
MW-1	5/5/99	229.5	7.00	222.5	< 50	2	< 0.5	< 0.5	< 1	8
MW-1***	8/26/99	229.5	11.41	218.09	< 50	4.1	< 0.5	< 0.5	< 1	< 1
MW-1	11/10/99	229.5	13.27	216.23	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5
MW-1	2/9/00	229.5	13.76	215.74	< 50	< 0.5	< 0.5	0.5	< 1	0.5
MW-1	6/30/00	229.5	10.63	218.87	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5
MW-1	8/8/00	229.5	11.77	217.73	62	1	2	< 0.5	2	< 0.5
MW-1	11/16/00	229.5	13.33	216.17	< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5
MW-1	3/8/01	229.5	12.30	217.2	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	5/31/01	229.5	11.88	217.62	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	12/18/01	229.5	13.74	215.76	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	2/19/02	229.5	14.42	215.08	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	5/7/02	229.5	10.78	218.72	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	8/6/02	229.5	12.70	216.8	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	11/5/02	229.5	15.00	214.5	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	12/12/02	229.5	15.46	214.04						
MW-1	3/13/03	229.5	14.51	214.99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	5/6/03	229.5	11.06	218.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	8/13/03	229.5	13.13	216.37	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	11/20/03	229.5	14.85	214.65	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	1/22/04	229.5	13.65	215.85						
MW-1	3/30/04	229.5	11.68	217.82	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	6/10/04	229.5	13.08	216.42	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	9/28/04	229.5	14.33	215.17	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (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	ND
RS-2	10/4/95	227.39	15.05	212.34	ND	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	12/16/01	227.39	6.99	220.40	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	2/19/02	227.39	8.08	219.31	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	5/7/02	227.39	9.27	218.12	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	8/6/02	227.39	11.38	216.01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	11/5/02	227.39	17.09	210.30	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	12/12/02	227.39	13.19	214.20						
RS-2	3/13/03	227.39	8.93	218.46	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	5/6/03	227.39	8.05	219.34	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	8/13/03	227.39	11.16	216.23	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	11/20/03	227.39	17.62	209.77	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	1/22/04	227.39	7.40	219.99						
RS-2	3/30/04	227.39	7.95	219.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	6/10/04	227.39	10.56	216.83	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
RS-2	9/28/04	227.39	17.02	210.37	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5



TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-5	12/14/89	227.61	25.97	201.64	57000	3100	4300	670	3400	
RS-5	2/91	227.61	FLOATING PRODUCT							
RS-5	6/91	227.61	FLOATING PRODUCT							
RS-5	9/91	227.61	FLOATING PRODUCT							
RS-5	12/91	227.61	FLOATING PRODUCT							
RS-5	11/9/92	227.61	20.73	206.88	50000	650	4800	1100	15000	
RS-5	4/7/94	227.61	18.16	209.45	27000	5000	8700	550	2800	
RS-5	6/19/94	227.61	18.11	209.5	20000	2100	5300	470	2500	
RS-5	9/17/94	227.61	19.63	207.98	9300	230	340	110	700	
RS-5	3/12/95	227.61	14.54	213.07	93000	6400	2000	19000	10000	
RS-5	10/4/95	227.61	17.53	210.08	16000	420	2100	320	1800	
RS-5	12/21/95	227.61	17.47	210.14	48000	3500	9200	840	4800	56
RS-5	03/27/96	227.61	13.51	214.1	68000	4900	18000	1700	11000	< 3000
RS-5	06/11/96	227.61	14.25	213.36	56000	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	16.67	208.94	45000	4000	16000	1900	9700	<0.5
RS-5	2/25/98	227.61	10.53	217.08	160000	2700	31000	5300	28000	<0.5
RS-5	7/8/98	227.61	13.75	213.86	45000	2800	12000	2000	8500	<10
RS-5	9/16/98	227.61	15.80	211.81	49000	1400	7500	1700	8600	<5
RS-5	11/24/98	227.61	16.64	210.97	89000	5300	15000	2800	13000	<10
RS-5	2/23/99	227.61	12.36	215.25	19000	1900	11000	2500	4800	<25
RS-5	5/5/99	227.61	12.78	214.83	78000	2000	10000	3000	15000	540
RS-5***	8/26/99	227.61	16.06	211.55	35000	870	4000	1900	8300	<1
RS-5	11/10/99	227.61	17.54	210.07	40000	1000	5600	1800	8100	<0.5
RS-5	2/9/00	227.61	16.31	211.3	46000	1400	6900	2700	11000	<0.5
RS-5	6/30/00	227.61	15.15	212.46	37000	810	5200	2200	9100	<2.5
RS-5	8/8/00	227.61	16.10	211.51	14000	330	500	1400	6500	<0.5
RS-5	11/16/00	227.61	17.38	210.23	23000	430	2300	1100	4800	<0.5
RS-5	3/8/01	227.61	27.72	199.89	11000	360	260	140	1500	2.6
RS-5	5/31/01	227.61	22.96	204.65	7500	26	11	38	470	<5
RS-5	12/18/01	227.61	15.61	212	12000	610	1200	100	1500	<5
RS-5	2/19/02	227.61	14.80	212.81	22000	460	1700	680	4000	<5
RS-5	5/7/02	227.61	31.77	195.84	700	150	10	19	67	5.2
RS-5	8/6/02	227.61	31.77	195.84	< 50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-5	11/5/02	227.61	31.77	195.84	12000	150	360	21	890	<2
RS-5	12/12/02	227.61	21.53	206.08						
RS-5	3/13/03	227.61	36.70	190.91	240	5.5	1.9	2.3	9.6	1.4
RS-5	5/6/03	227.61	14.52	213.09						
RS-5	8/13/03	227.61	31.77	195.84	310	1.4	<0.5	1	2.9	<0.5
RS-5	11/20/03	227.61	32.00	195.61	17000	150	720	240	1800	0.72
RS-5	1/22/04	227.61	25.30	202.31						
RS-5	3/30/04	227.61	21.90	205.71	4000	370	59	13	380	2.6
RS-5	6/10/04	227.61	35.00	192.61	120	7	0.88	1.3	4.3	1.3
RS-5	9/28/04	227.61	19.05	208.56	2600	110	89	75	56	<0.5

TABLE 1  
 GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-6	12/14/89	227.22	22.52	204.7	11000	1400	1700	160	860	
RS-6	2/91	227.22	FLOATING PRODUCT							
RS-6	6/91	227.22			95000	4200	4200	650	3700	
RS-6	9/91	227.22	FLOATING PRODUCT							
RS-6	12/91	227.22			64000	3700	2300	730	4100	
RS-6	11/9/92	227.22	19.43	207.79	19000	1600	710	500	1600	
RS-6	4/7/94	227.22	14.42	212.8	16000	1200	1300	290	1100	
RS-6	6/19/94	227.22	14.45	212.77	23000	1300	2200	590	2200	
RS-6	9/17/94	227.22	19.52	207.7	24000	630	790	250	1100	
RS-6	3/12/95	227.22	8.90	218.32	3200	450	13	82	230	
RS-6	10/4/95	227.22	17.78	209.44	3700	170	250	38	290	
RS-6	12/21/95	227.22	14.98	212.24	3100	120	30	16	150	58
RS-6	03/27/96	227.22	10.00	217.22	6900	180	440	79	360	< 300
RS-6	06/11/96	227.22	12.00	215.22	7400	220	150	30	100	<1000
RS-6	09/04/96	227.22	15.00	212.22	1400	68	2.6	7.7	9.2	14
RS-6	12/11/96	227.22	12.36	214.86	1800	39	16	10	18	< 0.5
RS-6	2/21/97	227.22	10.00	217.22	2100	71	85	25	40	< 0.5
RS-6	5/28/97	227.22	13.56	213.66	1700	34	12	11	16	< 0.5
RS-6	9/2/97	227.22	16.35	210.87	940	34	71	9	55	< 0.5
RS-6	11/24/97	227.22	15.72	211.5	490	9	6	1	7	< 0.5
RS-6	2/25/98	227.22	6.26	220.96	1400	22	47	5	52	< 0.5
RS-6**	7/8/98	227.22	11.41	215.81	1500	83	9	84	2	<10
RS-6	7/30/98	227.22			<50	<0.5	<0.5	<0.5	<1	
RS-6	9/16/98	227.22	13.42	213.8	990	23	<0.5	<0.5	<1	<1
RS-6	11/24/98	227.22	15.91	211.31	3400	5.3	<0.5	<0.5	14	<0.5
RS-6	2/23/99	227.22	7.00	220.22	1000	3.4	3.2	1.6	7.3	<0.5
RS-6	5/5/99	227.22	10.29	216.93	1100	50	10	80	15	2
RS-6***	8/26/99	227.22	13.72	213.5	690	44	2.5	30	31	<5
RS-6	11/10/99	227.22	13.90	213.32	1800	2	2	0.9	16	< 0.5
RS-6	2/9/00	227.22	12.77	214.45	410	3	3	4	7	< 0.5
RS-6	6/30/00	227.22	12.69	214.53	660	7	2	5	6	< 0.5
RS-6	8/8/00	227.22	14.72	212.5	660	2	3	2	6	< 0.5
RS-6	11/16/00	227.22	15.28	211.94	560	1	2	1	5	< 0.5
RS-6	3/8/01	227.22	10.10	217.12	2200	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	5/31/01	227.22	12.96	214.26	630	<0.5	<0.5	<0.5	<0.5	<5
RS-6	12/18/01	227.22	10.88	216.34	56	0.53	<0.5	<0.5	0.56	<0.5
RS-6	2/19/02	227.22	11.08	216.14	<50	<0.5	<0.5	0.6	<0.5	<0.5
RS-6	5/7/02	227.22	12.31	214.91	240	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	8/6/02	227.22	14.23	212.99	130	<0.5	<0.5	<0.5	<0.5	3
RS-6	11/5/02	227.22	17.99	209.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	12/12/02	227.22	17.57	209.65						
RS-6	3/13/03	227.22	11.82	215.4	120	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	5/6/03	227.22	10.10	217.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	8/13/03	227.22	13.88	213.34	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	11/20/03	227.22	18.62	208.6	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	1/22/04	227.22	11.24	215.98						
RS-6	3/30/04	227.22	10.72	216.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	6/10/04	227.22	13.52	213.7	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-6	9/28/04	227.22	17.95	209.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (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			2700000	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	2700000	13000	15000	2100	1100	
RS-7	3/12/95	195.99	3.72	192.27	35000	5100	560	6300	3600	
RS-7	10/4/95	195.99	4.03	191.96	96000	14000	14000	1300	7000	
RS-7	12/21/95	195.99	3.95	192.04	70000	9300	12000	860	5600	210
RS-7	03/27/96	195.99	3.80	192.19	64000	8900	14000	1100	8300	< 3000
RS-7	06/11/96	195.99	3.79	192.2	65000	12000	17000	1600	9700	<5000
RS-7	09/04/96	195.99	3.99	192	20000	4900	2100	670	4400	100
RS-7	12/11/96	195.99	3.78	192.21	17000	4400	7500	570	4600	180
RS-7	2/21/97	195.99	3.82	192.17	93000	31000	47000	3800	23000	<0.5 *
RS-7	5/28/97	195.99	3.82	192.17	52000	12000	8200	2000	11000	<0.5 *
RS-7	9/2/97	195.99	3.96	192.03	28000	6100	2800	950	3800	<50 *
RS-7	11/24/97	195.99	3.76	192.23	18000	4300	5900	600	2900	<0.5 *
RS-7	2/25/98	195.99	3.70	192.29	13000	4300	7100	1100	5800	<0.5 *
RS-7**	7/8/98	195.99	3.76	192.23	45000	10000	3400	2000	8000	<10 *
RS-7	7/30/98	195.99			72000	12000	2100	2000	9100	
RS-7	9/16/98	195.99	3.83	192.16	5000	6500	160	<2.5	500	<5 *
RS-7	11/24/98	195.99	3.77	192.22	19000	2100	1100	500	2100	<0.5
RS-7	2/23/99	195.99	3.70	192.29	83000	6500	9900	1200	7000	<10
RS-7	5/5/99	195.99	3.88	192.11	47000	7400	4800	1300	7400	540
RS-7***	8/26/99	195.99	4.16	191.83	15000	3400	91	950	970	<5
RS-7	11/10/99	195.99	4.12	191.87	10000	2900	170	630	1200	<0.5
RS-7	2/9/00	195.99	3.98	192.01	9400	1400	120	480	600	<0.5
RS-7	6/30/00	195.99	4.04	191.95	8200	3300	190	430	540	<0.5
RS-7	8/8/00	195.99	4.06	191.93	11000	2300	150	430	520	<0.5
RS-7	11/16/00	195.99	4.04	191.95	5400	1500	40	240	200	<0.5
RS-7	3/8/01	195.99	3.94	192.05	12000	3300	260	480	850	17 ****
RS-7	5/31/01	195.99	4.01	191.98	10000	1900	120	320	620	<100 ****
RS-7	12/18/01	195.99	4.81	191.18	2700	450	21	86	120	2.3 ****
RS-7	2/19/02	195.99	3.91	192.08	20000	2600	360	570	1900	11 ****
RS-7	5/7/02	195.99	3.97	192.02	9200	1400	120	360	780	6.6 ****
RS-7	8/6/02	195.99	4.06	191.93	8300	1300	71	250	480	<10 ****
RS-7	11/5/02	195.99	4.11	191.88	9300	1500	90	330	680	<10 ****
RS-7	12/12/02	195.99	4.13	191.86						
RS-7	3/13/03	195.99	4.02	191.97	5500	990	51	180	330	6.1 ****
RS-7	5/6/03	195.99	3.98	192.01	4800	740	36	160	310	4.7 ****
RS-7	8/13/03	195.99	4.09	191.9	9400	1300	65	310	620	6.1 ****
RS-7	11/20/03	195.99	4.10	191.89	4800	700	13	110	110	<5 ****
RS-7	1/22/04	195.99	4.12	191.87						
RS-7	3/30/04	195.99	4.05	191.94	3800	540	33	140	210	3.4 ****
RS-7	6/10/04	195.99	4.12	191.87	4000	740	22	82	130	2.8 ****
RS-7	9/28/04	195.99	4.18	191.81	5000	640	20	110	130	2.8 ****

TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-8	12/14/89									
RS-8	09/04/96									
RS-8	12/11/96									
RS-8	2/21/97									
RS-8	5/28/97									
RS-8	9/2/97									
RS-8	11/24/97									
RS-8	2/25/98									
RS-8	7/8/98									
RS-8	9/16/98									
RS-8	11/24/98									
RS-8	2/23/99									
RS-8	5/5/99									
RS-8***	8/26/99	214.67	7.25	207.42	160000	24000	35000	4200	24000	<5
RS-8	11/10/99	214.67	8.69	205.98	150000	21000	29000	3000	14000	<0.5
RS-8	2/9/00	214.67	7.23	207.44	14000	1900	3200	270	2300	<0.5
RS-8	6/30/00	214.67	3.99	210.68	6400	570	870	150	770	<0.5
RS-8	8/8/00	214.67	7.52	207.15	100000	24000	40000	2300	9900	<0.5*
RS-8	11/16/00	214.67	6.14	208.53	110000	14000	21000	2100	9600	<20*
RS-8	3/8/01	214.67	9.40	205.27	10000	740	840	220	990	<2****
RS-8	5/31/01	214.67	6.83	207.84	730	11	29	4.2	31	<5****
RS-8	12/18/01	214.67	7.14	207.53	4500	230	370	77	750	<0.5****
RS-8	2/19/02	214.67	7.69	206.98	780	33	21	5.1	45	<0.5****
RS-8	5/7/02	214.67	7.82	206.85	24000	1500	1800	830	2700	<10****
RS-8	8/6/02	214.67	13.46	201.21		0.04	feet floating product			
RS-8	11/5/02	214.67	13.96	200.71		0.40	feet floating product			
RS-8	12/12/02	214.67	14.38	200.29		0.08	feet floating product			
RS-8	3/13/03	214.67	10.99	203.68	90000	1100	14000	2500	12000	<50****
RS-8	5/6/03	214.67	5.35	209.32	1600	6.7	46	21	170	<0.5****
RS-8	8/13/03	214.67	11.96	202.71	100000	1200	10000	2500	13000	<50****
RS-8	11/21/03	214.67	12.30	202.37	100000	1700	10000	1700	12000	<25****
RS-8	1/22/04	214.67	9.63	205.04						
RS-8	3/30/04	214.67	8.70	205.97	18000	69	110	130	1200	<5****
RS-8	6/10/04	214.67	10.65	204.02	33000	210	350	360	2300	<5****
RS-8	9/28/04	214.67	9.00	205.67	6000	59	20	100	170	<1****

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	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)								
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-9	12/14/89									
RS-9***	09/04/96									
RS-9***	12/11/96									
RS-9***	2/21/97									
RS-9***	5/28/97									
RS-9***	9/2/97									
RS-9***	11/24/97									
RS-9***	2/25/98									
RS-9***	7/8/98									
RS-9***	9/16/98									
RS-9***	11/24/98									
RS-9***	2/23/99									
RS-9***	5/5/99									
RS-9***	8/26/99	195.63	7.46	188.17	17000	3500	1200	360	1600	180
RS-9	11/10/99	195.63	7.91	187.72	2800	520	62	46	130	<0.5
RS-9	2/9/00	195.63	6.09	189.54	3400	650	74	64	130	<0.5
RS-9	6/30/00	195.63	6.77	188.86	3000	600	79	74	120	<0.5
RS-9	8/8/00	195.63	7.32	188.31	4900	500	430	160	530	<0.5
RS-9	11/16/00	195.63	6.33	189.3	3000	350	220	90	220	<0.5
RS-9	3/8/01	195.63	4.93	190.7	<50	3.4	<0.5	<0.5	<0.5	<0.5
RS-9	5/31/01	195.63	4.01	191.62	510	96	6	6.2	9.1	5.5
RS-9	12/18/01	195.63	4.81	190.82	210	11	1.8	3.9	7.6	<0.5
RS-9	2/19/02	195.63	4.99	190.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-9	5/7/02	195.63	6.08	189.55	130	7.9	<0.5	1.2	<0.5	0.67
RS-9	8/6/02	195.63	6.93	188.7	380	29	1.2	2.3	2.9	3.1
RS-9	11/5/02	195.63	7.53	188.1	1800	240	9	27	110	8.6
RS-9	12/12/02	195.63	7.23	188.4						
RS-9	3/13/03	195.63	5.73	189.9	410	30	3	6	9.5	3.3
RS-9	5/6/03	195.63	4.83	190.8	910	72	15	9.2	26	5.5
RS-9	8/13/03	195.63	8.24	187.39	810	20	<0.5	2.4	1.6	3.6
RS-9	11/20/03	195.63	6.99	188.64	3600	920	5.3	6.1	20	30
RS-9	1/22/04	195.63	5.43	190.2						
RS-9	3/30/04	195.63	5.07	190.56	1900	360	9.3	19	48	21
RS-9	6/10/04	195.63	6.18	189.45	950	180	3	8.4	14	8.7
RS-9	9/28/04	195.63	6.94	188.69	4900	1800	5.9	5	16	31

TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
RS-10	12/14/89									
RS-10***	09/04/96									
RS-10***	12/11/96									
RS-10***	2/21/97									
RS-10***	5/28/97									
RS-10***	9/2/97									
RS-10***	11/24/97									
RS-10***	2/25/98									
RS-10***	7/8/98									
RS-10***	9/16/98									
RS-10***	11/24/98									
RS-10***	2/23/99									
RS-10***	5/5/99									
RS-10***	8/26/99	208.46	3.76	204.7	5100	160	340	190	1000	32*
RS-10	11/10/99	208.46	3.83	204.63	500	7	2	2	4	<0.5
RS-10	2/9/00	208.46	0.31	208.15	100	4	3	1	6	<0.5
RS-10	6/30/00	208.46	2.22	206.24	640	5	2	4	2	<0.5
RS-10	8/8/00	208.46	2.46	206	460	2	2	2	7	<0.5
RS-10	11/16/00	208.46	2.46	206	360	1	1	2	<1	<0.5
RS-10	3/8/01	208.46	2.82	205.64	53	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	5/31/01	208.46	4.93	203.53	210	<0.5	<0.5	1.5	5	<5
RS-10	12/18/01	208.46	2.10	206.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	2/19/02	208.46	2.29	206.17	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	5/7/02	208.46	2.92	205.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	8/6/02	208.46	4.11	204.35	<50	<0.5	0.7	<0.5	1.6	<0.5
RS-10	11/5/02	208.46	4.05	204.41	54	<0.5	1.2	<0.5	1.1	<0.5
RS-10	12/12/02	208.46	6.81	201.65						
RS-10	3/13/03	208.46	3.00	205.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	5/6/03	208.46	2.55	205.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	8/13/03	208.46	3.68	204.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	11/20/03	208.46	4.45	204.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	1/22/04	208.46								
RS-10	3/30/04	208.46	3.05	205.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	6/10/04	208.46	4.85	203.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
RS-10	9/28/04	208.46	6.75	201.71	<50	4.6	<0.5	<0.5	<0.5	<0.5

TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)		
R1	12/14/89											
R1	09/04/96	227.69	15.00	212.69	1800	1100	3	29	< 10	< 30		
R1	12/11/96	227.69	10.30	217.39	<50	<0.5	< 0.5	< 0.5	< 1	4		
R1	2/21/97	227.69	11.88	215.81	2500	670	9	3	13	<0.5		
R1	5/28/97	227.69	14.03	213.66	24000	4300	36	2000	370	<0.5		
R1	9/2/97	227.69	14.98	212.71	4400	320	6	340	72	20		
R1	11/24/97	227.69	14.06	213.63	100	39	1	18	10	<0.5		
R1	2/25/98	227.69	8.93	218.76	1200	400	8	13	150	<0.5		
R1	7/8/98	227.69	11.36	216.33	68	14	< 0.5	< 0.5	< 1	<1		
R1	9/16/98	227.69	13.30	214.39	16000	3400	92	< 0.5	410	<1		
R1	11/24/98	227.69	10.72	216.97	340	19	1.6	35	9.7	<0.5		
R1	2/23/99	227.69	9.34	218.35	60	16	0.6	5.6	1.2	<0.5		
R1	5/5/99	227.69	11.30	216.39	1300	290	3	150	1	15		
R1	8/26/99	227.69	13.97	213.72	6500	630	<0.5	1300	<1	<1		
R1	11/10/99	227.69	13.73	213.96	480	12	4	22	9	<0.5		
R1	2/9/00	227.69	13.10	214.59	<50	8	< 0.5	1	<1	<0.5		
R1	6/30/00	227.69	13.42	214.27	2600	350	35	1900	220	<0.5		
R1	8/8/00	227.69	14.25	213.44	10000	910	76	2100	390	<0.5		
R1	3/8/01	227.69	13.72	213.97	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5		
R1	3/8/01	227.69	13.72	213.97	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5		
R1	5/31/01	227.69	15.77	211.92	3800	400	16	470	67	<5		
R1	12/18/01	227.69	9.90	217.79	<50	<0.5	< 0.5	1.5	<0.5	<0.5		
R1	2/19/02	227.69	10.86	216.83	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5		
R1	5/7/02	227.69	16.17	211.52	53	3.3	<0.5	1	<0.5	<0.5		
R1	8/6/02	227.69	16.83	210.86	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5		
R1	11/5/02	227.69	16.92	210.77	dry, groundwater deeper than 210.77 foot elevation							
R1	12/12/02	227.69	16.94	210.75								
R1	3/13/03	227.69	15.69	212	<50	4.5	<0.5	< 0.5	<0.5	<0.5		
R1	5/6/03	227.69	10.75	216.94	<50	<0.5	< 0.5	< 0.5	<0.5	<0.5		
R1	8/13/03	227.69	16.04	211.65	430	17	< 0.5	1.4	1.1	<0.5		
R1	11/20/03	227.69	dry									
R1	1/22/04	227.69	14.40	213.29								
R1	3/30/04	227.69	14.05	213.64	<50	2.8	<0.5	< 0.5	<0.5	<0.5		
R1	6/10/04	227.69	15.85	211.84	3200	85	2.6	38	8.3	<0.5		
R1	9/28/04	227.69	15.06	212.63	2000	35	2.2	12	4.4	<0.5		

TABLE 1  
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABACORATORY 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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
R2	12/14/89									
R2	09/04/96	230.68	13.44	217.24	14000	7600	<10	170	190	<100
R2	12/11/96	230.68	12.42	218.26	488	300	1	< 0.5	30	16
R2	2/21/97	230.68	10.50	220.18	5700	2100	5	2	10	3 *
R2	5/28/97	230.68	13.10	217.58	36000	14000	63	260	220	<0.5 *
R2	9/2/97	230.68	14.16	216.52	30000	12000	330	1000	790	47 *
R2	11/24/97	230.68	14.71	215.97	41000	15000	830	1500	4200	<0.5 *
R2	2/25/98	230.68	7.39	223.29	800	400	<0.5	<0.5	15	<0.5 *
R2	7/8/98	230.68	11.27	219.41	290	31	< 0.5	1	< 1	2 *
R2	9/16/98	230.68	13.73	216.95	6600	11000	24	<0.5	35	<1 *
R2	11/24/98	230.68	11.67	219.01	6100	<0.5	36	<0.5	21	<0.5 *
R2	2/23/99	230.68	7.55	223.13	1100	310	3	2	26	<0.5 *
R2	5/5/99	230.68	10.89	219.79	11000	5300	7	36	7	8 *
R2	8/26/99	227.28	13.14	214.14	6700	940	33	190	240	<1 *
R2	11/10/99	227.28	14.42	212.86	5100	2600	160	1800	8100	<0.5 *
R2	2/9/00	227.28	12.45	214.83	4700	1400	110	130	340	<0.5 *
R2	6/30/00	227.28	12.94	214.34	7100	3200	110	300	480	<0.5 *
R2	8/8/00	227.28	13.58	213.7	30000	13000	250	1000	2700	<0.5 *
R2	11/16/00	227.28	14.33	212.95	44000	17000	230	790	3600	<0.5 *
R2	3/8/01	227.28	11.15	216.13	2300	640	8.6	61	170	<2 ****
R2	5/31/01	227.28	13.38	213.9	2200	580	12	72	100	<25 ****
R2	12/18/01	227.28	12.35	214.93	4900	2000	120	44	280	<5 ****
R2	2/19/02	227.28	11.32	215.96	2100	1200	<5	14	<5	<5 ****
R2	5/7/02	227.28	13.15	214.13	2500	660	7.5	170	26	<2.5 ****
R2	8/6/02	227.28	14.51	212.77	6300	1800	150	220	340	<5 ****
R2	11/5/02	227.28	15.46	211.82	11000	3000	140	57	620	<20 ****
R2	12/12/02	227.28	15.70	211.58						
R2	3/13/03	227.28	12.96	214.32	580	200	1.2	5.4	3.8	<1 ****
R2	5/6/03	227.28	11.14	216.14	70	25	<0.5	<0.5	1.3	<0.5 ****
R2	8/13/03	227.28	14.01	213.27	1800	340	8	49	12	<2 ****
R2	11/20/03	227.28	15.35	211.93	8000	1400	46	57	490	<5 ****
R2	1/22/04	227.28	12.10	215.18						
R2	3/30/04	227.28	11.48	215.8	<50	3	<0.5	<0.5	<0.5	<0.5 ****
R2	6/10/04	227.28	13.95	213.33	77	7.7	<0.5	<0.5	<0.5	<0.5 ****
R2	9/28/04	227.28	14.80	212.48	500	120	2	25	2.7	0.71 ****



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) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)		
R3	12/14/89											
R3	09/04/96	230.32	9.90	220.42	<50	<0.5	<0.5	<0.5	<2	<5		
R3	12/11/96	230.32	8.18	222.14	<50	<0.5	<0.5	<0.5	<1	5		
R3	2/21/97	230.32	6.76	223.56	340	35	59	8	54	<0.5		
R3	5/28/97	230.32	9.98	220.34	<50	<0.5	<0.5	<0.5	<1	<0.5		
R3	9/2/97	230.32	10.86	219.46	<50	4	<0.5	<0.5	<1	<0.5		
R3	11/24/97	230.32	11.20	219.12	not enough water to sample. No sample							
R3	2/25/98	230.32	3.42	226.9	<50	<0.5	<0.5	<0.5	<1	<0.5		
R3	7/8/98	230.32	8.78	221.54	140	<0.5	<0.5	4	24	<1		
R3	9/16/98	230.32	10.38	219.94	<50	<0.5	<0.5	<0.5	<1	<1		
R3	11/24/98	230.32	11.12	219.2	not enough water to sample. No sample							
R3	2/23/99	230.32	3.95	226.37	<50	<0.5	<0.5	<0.5	<1	<0.5		
R3	5/5/99	230.32	7.58	222.74	80	9	<0.5	<0.5	<1	6		
R3	8/26/99	227.25	10.76	216.49	<50	2	<0.5	<0.5	<1	1		
R3	11/10/99	227.25	11.09	216.16	140	3	4	1	11	<0.5		
R3	2/9/00	227.25	8.76	218.49	<50	2	<0.5	<0.5	<1	<0.5		
R3	6/30/00	227.25	9.67	217.58	<50	0.7	<0.5	1	1	<0.5		
R3	8/8/00	227.25	10.44	216.81	72	<0.5	<0.5	<0.5	<1	<0.5		
R3	11/16/00	227.25	10.26	216.99	110	4	1	<0.5	3	<0.5		
R3	3/8/01	227.25	6.54	220.71	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	5/31/01	227.25	10.01	217.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	12/18/01	227.25	6.79	220.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	2/19/02	227.25	7.86	219.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	5/7/02	227.25	9.20	218.05	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	8/6/02	227.25	10.62	216.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	11/5/02	227.25	11.07	216.18	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	12/12/02	227.25	11.28	215.97								
R3	3/13/03	227.25	8.69	218.56	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	5/6/03	227.25	8.02	219.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	8/13/03	227.25	dry		DRY							
R3	11/20/03	227.25	dry		DRY							
R3	1/22/04	227.25	7.30	219.95								
R3	3/30/04	227.25	7.85	219.4	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	6/10/04	227.25	10.30	216.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
R3	9/28/04	227.25	dry		DRY							

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

ID#	DATE SAMPLED	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)								
		WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	TPH-G (UG/L)	BENZENE (UG/L) (1.5)	TOLUENE (UG/L) (150)	ETHYL-BENZENE (UG/L) (300)	XYLENES (UG/L) (1800)	MTBE (UG/L) (13)
T 1	12/14/89									
T 1	09/04/96									
T 1	12/11/96									
T 1	2/21/97									
T 1	5/28/97									
T 1	9/2/97									
T 1	11/24/97									
T 1	2/25/98									
T 1	7/8/98									
T 1	9/16/98									
T 1	11/24/98									
T 1	2/23/99									
T 1	5/5/99									
T 1***	8/26/99	195.11	2.44	192.67	40000	7200	5000	950	8100	53 *
T 1	11/10/99	195.11	2.23	192.88	46000	5600	3600	910	6500	<0.5
T 1	2/9/00	195.11	2.22	192.89	35000	2900	5700	720	6600	<0.5
T 1	6/30/00	195.11	2.22	192.89	30000	3400	3200	950	4600	<5
T 1	8/8/00	195.11	2.73	192.38	8900	1600	760	260	870	<5
T 1	11/16/00	195.11	2.72	192.39	4000	1300	92	80	290	<0.5
T 1	3/8/01	195.11	2.12	192.99	25000	4400	3400	770	3200	26 ****
T 1	5/31/01	195.11	2.30	192.81	8900	940	210	340	1500	<50 ****
T 1	12/18/01	195.11	2.20	192.91	48000	3700	5500	1200	5300	24 ****
T 1	2/19/02	195.11	1.96	193.15	64000	8600	6000	1700	6800	55 ****
T 1	5/7/02	195.11	2.22	192.89	41000	9200	910	2000	6200	62 ****
T 1	8/6/02	195.11	2.32	192.79	28000	5500	240	1300	2600	32 ****
T 1	11/5/02	195.11	2.52	192.59	11000	3000	65	660	610	18 ****
T 1	12/12/02	195.11	2.55	192.56						
T 1	3/13/03	195.11	2.23	192.88	930	150	17	23	60	2.6 ****
T 1	5/6/03	195.11	2.37	192.74	6800	1000	230	310	820	10 ****
T 1	8/13/03	195.11	2.41	192.7	9600	1500	110	440	910	10 ****
T 1	11/20/03	195.11	2.50	192.61	10000	1800	120	520	510	11 ****
T 1	1/22/04	195.11								
T 1	3/30/04	195.11			15000	1800	660	610	2000	8.6 ****
T 1	6/10/04	195.11	2.40	192.71	5500	570	2	240	130	2.7 ****
T 1	9/28/04	195.11	2.52	192.59	8700	2600	100	450	15	15 ****
T 2	1/22/04	195.3	2.54	192.76						
T 2	3/30/04	195.3	2.50	192.8						
T 2	6/10/04	195.3	2.60	192.7						
T 2	9/28/04	195.3	car							
T 3	1/22/04	202.38								
T 3	6/10/04	202.38	9.80	192.58						
T 3	9/28/04	202.38	9.90	192.48						
T4	1/22/04	197.48	4.70	192.78						
T4	3/30/04	197.48	4.66	192.82						
T4	6/10/04	197.48	4.76	192.72						
T4	9/28/04	197.48	4.86	192.62						
LF 1	1/22/04	226.59	29.12	197.47						
LF 1	3/30/04	226.59	26.45	200.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5 ****
LF 1	6/10/04	226.59	27.57	199.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5 ****
LF 1	9/28/04	226.59	28.72	197.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5 ****

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

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

DATE PURGED	METER READING IN GALLONS RS5	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring	ACCUMULATED GALLONS REMOVED FROM TRENCH & WELLS In GALLONS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA METHOD 8020 - 8260B						Sample Location
								TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L	
10/3/03	1619477.8	1620763.0	2.32	1285	80276	446641.1	528917.2							
10/8/03	1623572.9	1623572.9		0	80276	449451.0	529727.1							
10/14/03	1626700.0	1626700.0		0	80276	452578.1	532854.2							
10/16/03	1627622.0	1627622.0		0	80276	453500.1	533776.2							
10/24/03	1631506.9	1631506.9		0	80276	457385.0	537861.1							
10/30/03	1634530.0	1634530.0		0	80276	460408.1	540684.2							
11/6/03	1637906.5	1637906.5		0	80276	463784.6	544060.7							
11/13/03	1641361.3	1641361.3		0	80276	467239.4	547515.5							
11/20/03	1644688.6	1645991.4		1303	81579	470566.7	552145.6	17000	150	720	240	1800	0.72	RS5
11/30/03	1649967.5	1649967.5		0	81579	474542.8	556121.7							
12/3/03	1649967.4	1649967.4		0	81579	474542.7	556121.6							
12/11/03	1649977.6	1649977.6		0	81579	474552.9	556131.8							
12/18/03	1654385.3	1655688.6		1303	82882	478960.6	561842.8							
12/23/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
12/30/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
1/22/04	1672236.9	1673412.0		1175	84057	495508.9	579566.2							
2/26/04	1696276.0	1696378.0		102	84159	518372.9	602532.2							
3/30/04	1722614.0	1723589.0		975	85134	544608.9	629743.2	15000	1800	660	610	2000	8.6	T1
4/8/04	1729975.5	1729975.5		0	85134	550995.4	636129.7	4000	370	59	13	380	2.6	RS5
4/14/04	1734113.2	1734113.2		0	85134	555133.1	640267.4							
4/22/04	1739978.0	1739978.0		0	85134	560997.9	646132.2							
4/29/04	1744687.9	1746094.5		1407	86541	565707.8	652248.7							
5/13/04	1754248.1	1754248.1		0	86541	573861.4	660402.3							
5/21/04	1759593.7	1759593.7		0	86541	579207.0	665747.9							
5/27/04	1762418.0	1764065.5		1648	88188	582031.3	670219.7							
6/3/04	1769445.0	1769445.0		0	88188	587410.8	675599.2	5500	570	2	240	130	2.7	T1
6/10/04	1774349.0	1774349.0		0	88188	592314.8	680503.2	120	7	0.88	1.3	4.3	1.3	RS5
6/17/04	1778979.0	1778979.0		0	88188	596944.8	685133.2							
6/25/04	1783576.7	1783576.7		0	88188	601542.5	689730.9							
6/30/04	1786027.0	1787786.1		1759	89948	603992.8	693940.3							
7/8/04	1787858.5	1787858.5		0	89948	604065.2	694012.7							
7/22/04	1791170.5	1791170.5		0	89948	607377.2	697324.7							
7/29/04	1791170.5	1791170.5		0	89948	607377.2	697324.7	no electrical power to site (no pumping).						
9/24/04	1791170.0	1791170.0		0	89948	607376.7	697324.2	new electrical power to site (restart pump RS5).						
9/28/04	1791275.2	1793186.5		1911	91859	607481.9	699340.7	2600	110	89	75	56	<0.5	RS5
9/30/04	1794233.0	1794233.0		0	91859	608528.4	700387.2	8700	2600	100	450	240	15	T1

25

ug/L micrograms per liter (parts per billion)  
mg/L milligrams per liter (parts per million)  
WESTERN GEO-ENGINEERS

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

\* SAMPLED ON AUGUST 26, 1999  
T1 Receptor Trench Well  
RS5 Monitor Well RS5 (pumping well)

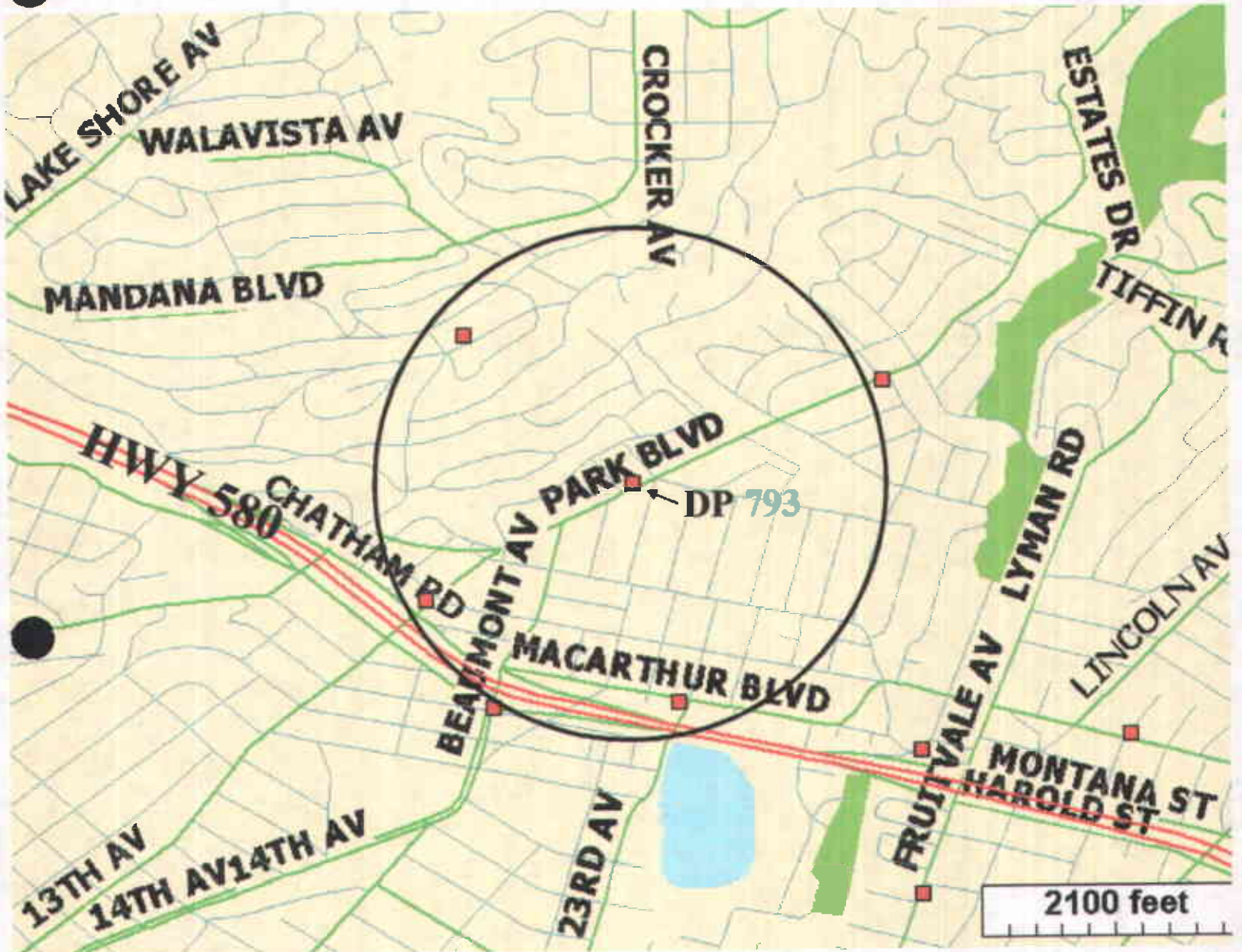


FIGURE 1  
 GEOTRACKER  
 AREA WELL & LUST MAP  
 DP 793  
 4035 PARK BLVD.  
 OAKLAND, CA

- LUST SITES
- WELLS

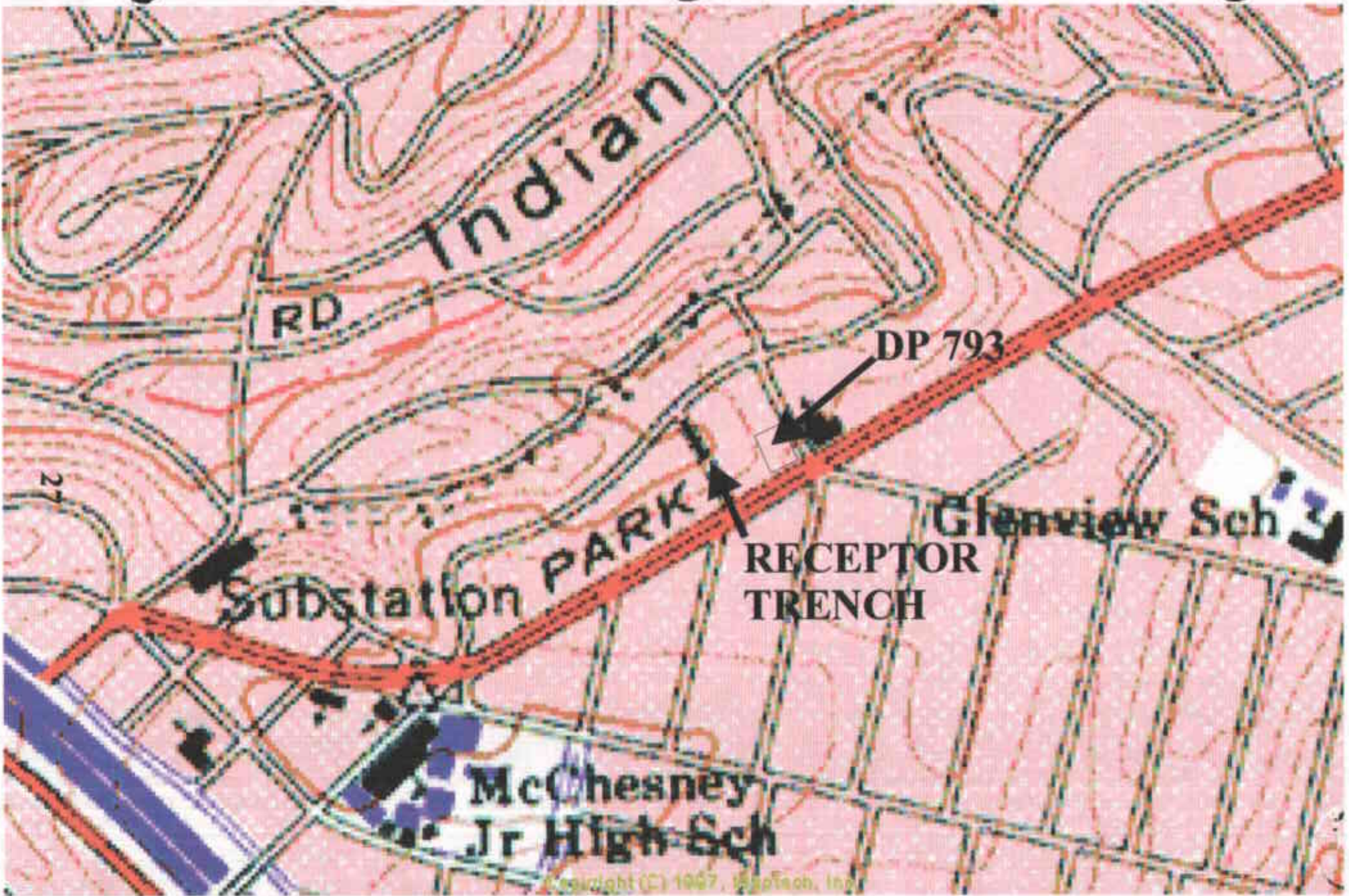
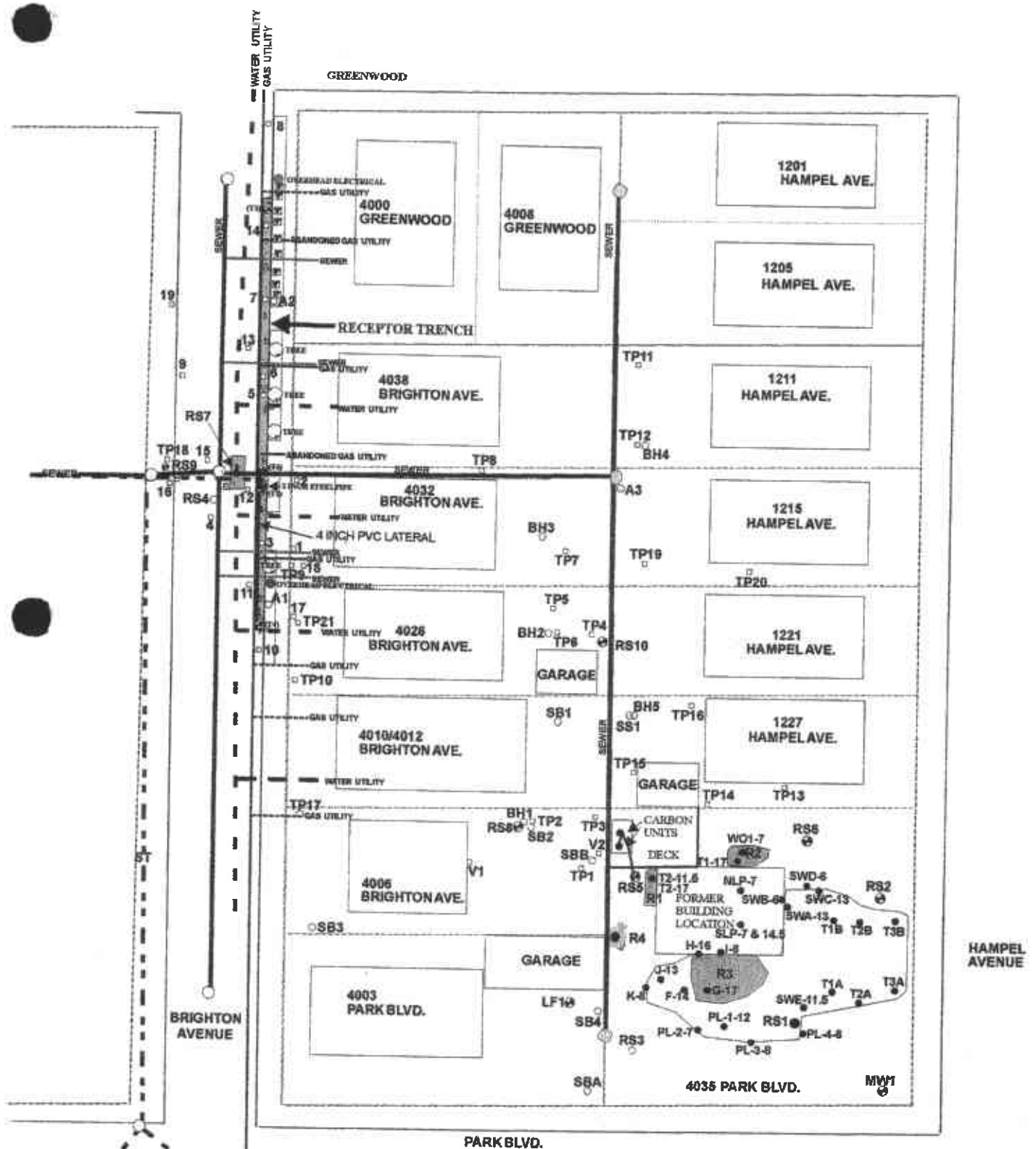


FIGURE 2  
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP NORTH ↑

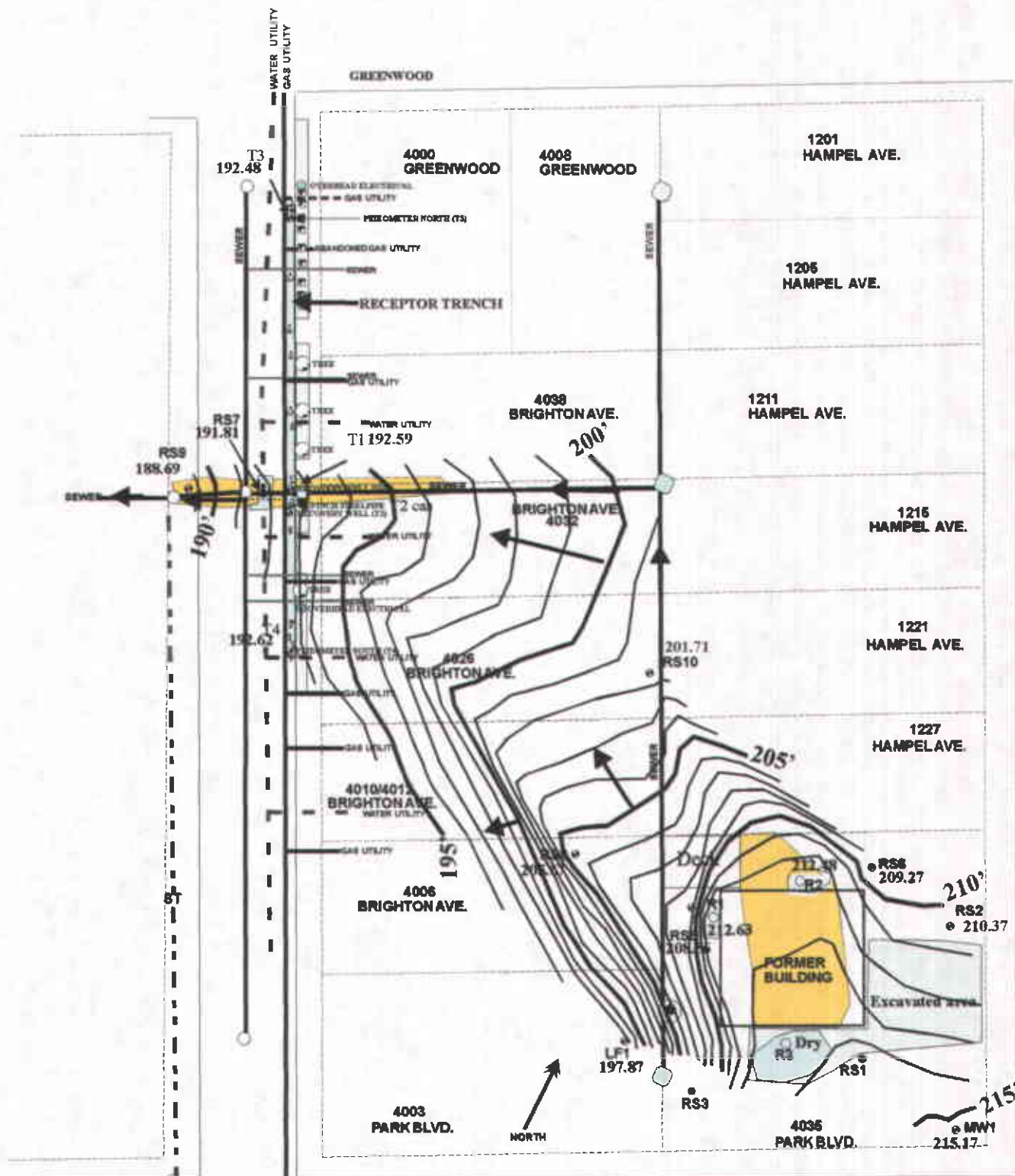


0' 20' 50'  
SCALE: 1 INCH=50 FEET



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

- 10 SPS SAMPLE POINT
- SOIL SAMPLE POINT
- SOIL BORING
- ⋮ RECEPTOR TRENCH SAMPLE POINT
- RS2 GROUNDWATER MONITORING WELL
- RS1 DESTROYED MONITORING WELL

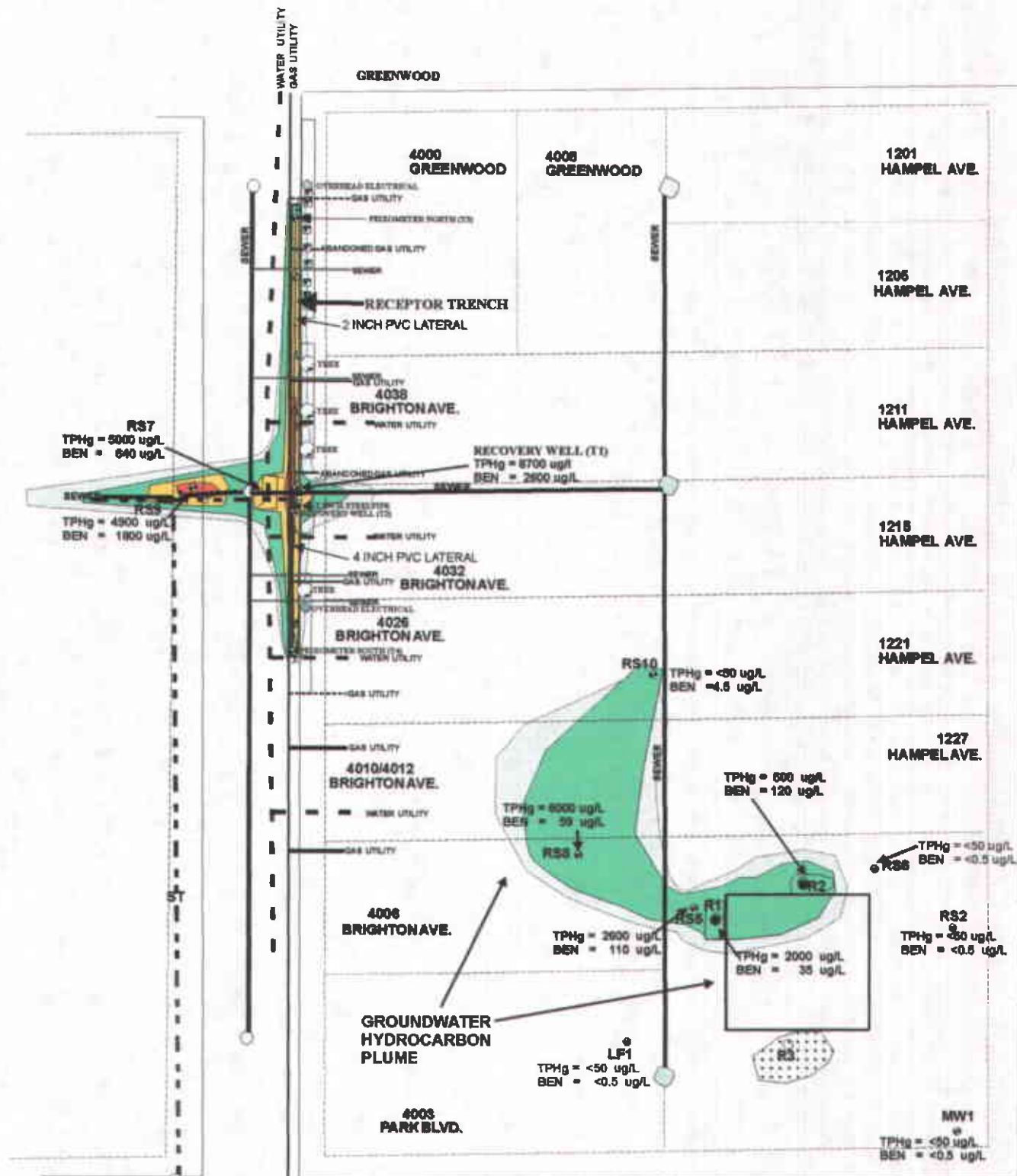


0' 20' 50'  
SCALE: 1"=50 FEET

**FIGURE 4**  
DP 793, 4035 PARK BLVD.  
OAKLAND, CALIFORNIA  
GROUNDWATER ELEVATION  
09/28/04.

CONTOURS ARE FEET ABOVE SEA LEVEL

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



0' 20' 50'  
SCALE: 1 INCH = 50 FEET



**FIGURE 5  
GROUNDWATER  
PLUME  
09/28/04**

DP 793, 4035 PARK BLVD.  
OAKLAND, CALIFORNIA

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





**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.



**WESTERN  
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FAX (530) 662-0273  
wege@cal.net

**GROUNDWATER ELEVATION DATA  
AND PRODUCT THICKNESS MEASUREMENTS**

SITE DP 793, 4035 Park Blvd., Oakland, CA.

DATE September 28, 2004

START TIME 10:30

MEASURED BY George Converse

DTW METER USED Solinst Model 122

WELL ID	TIME	DEPTH OF WELL feet below top of casing (fbtc)	DEPTH TO WATER (fbtc)	DEPTH TO TOP OF FLUID (fbtc)	PRODUCT THICKNESS (feet)	WATER COLUMN IN FEET	<i>Gw elev</i>
MW01		18.32	14.33	14.33	0		215.17
RS02		18.40	17.02	17.02	0		210.37
RS05		39.20	19.09	19.09			208.56
RS06		34.06	17.95	17.95	0		209.27
RS07		7.25	4.18	4.18	0		191.81
RS08		14.50	9.0	9.0	0		205.67
RS09		15.50	6.94	6.94	0		188.69
RS10		9.80	6.75	6.75	0		201.71
RO1		16.8	15.06	15.06			212.63
RO2		16.92	14.8	14.8			212.48
RO3		11.74	11.1	11.1	0	<i>Dry</i>	<i>No sample</i>
LF1		38.70	28.72	28.72	0		197.87
T01		10	2.52	2.52	0		192.59
T02		10	<i>Cur</i>	<i>---</i>	<i>---</i>		
T03		10	9.90	9.90	0		192.48
T04		10	4.86	4.86	0		192.62

NOTES Global ID# T0600100158 Sampling Co. Log Code: WGEW

9:25 am under meter 1791275.2

Start pumpily trench 11:15

300 ft sande sewer ditch 8 AM

Sande RS-5 " pumpily well 10:15 AM

EGB 1700



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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004 START TIME 1350  
 WELL ID# MW-01 SAMPLE BY CONVERSE  
 CASING ELEVATION, IN FEET 229.5 WATER COLUMN, IN FEET 4  
 CASING TOTAL DEPTH, IN FEET 18.32 G/L PURGE ONE CASING VOLUME 2.5L  
 CASING DIAMETER IN INCHES 2" (CASING MULTIPLIERS: 2 INCH = 0.165 gal/ FT  
 DEPTH TO TOP OF FLUID 14.33 2" = 0.625 L/FT 4 INCH = 0.65 gal/ FT  
 4" = 2.46 L/FT 6 INCH = 1.47 gal/FT)  
 DEPTH TO TOP OF WATER 14.33 FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)  
 TOP OF WATER ELEVATION \_\_\_\_\_ FREE PHASE PRODUCT THICKNESS 0  
 PUMP TYPE GRUNDFOS REDIFLOW 2 PUMP RATE \_\_\_\_\_  
 DTW METER USED SOLINST MODEL 122 pH, Cond, Temp meter used HANNA HI 99130

1.2  
0.625  
4  
28.00

TIME	INTAKE DEPTH	RATE <del>GPM</del> LPM	CUM. VOL GAL LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1355			1.5	23.4	6.75	404	201		salty water
1358		1.2	3.0	23.1	6.42	393	196		water clear
1402			6.0	23.6	6.24	400	201		water clear
1405			9.0	23.7	6.18	417	209		water clear
1407			10.0	23.8	6.17	420	209		

171 Hz

144 Hz

FINAL VOLUME PURGED \_\_\_\_\_

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MIBE

TIME SAMPLED 1407

SAMPLE CONTAINERS 3-HCl PRESERVED 40CC VOA'S

SAMPLE ID# MW-01

LABORATORY USED KIFF Analytical

NOTES \_\_\_\_\_



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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004 START TIME 1415  
 WELL ID# RS-02 SAMPLE BY CONVERSE  
 CASING ELEVATION, IN FEET 227.39 WATER COLUMN, IN FEET 1.4  
 CASING TOTAL DEPTH, IN FEET 18.40 G/L PURGE ONE CASING VOLUME 3.40  
 CASING DIAMETER IN INCHES 4" (CASING MULTIPLIERS: 2 INCH = 0.165 g/ FT  
 DEPTH TO TOP OF FLUID 17.02 2" = 0.625 L/FT 4 INCH = 0.65 g/ FT  
 4" = 2.46 L/FT 6 INCH = 1.47 g/FT  
 DEPTH TO TOP OF WATER 17.02 FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)  
 TOP OF WATER ELEVATION \_\_\_\_\_ FREE PHASE PRODUCT THICKNESS \_\_\_\_\_  
 PUMP TYPE GRUNDFOS REDIFLOW 2 PUMP RATE \_\_\_\_\_  
 DTW METER USED SOLINST MODEL 122 pH, Cond, Temp meter used HANNA HI 99130

1 2  
2 46  
0.4  
984  
346  
3.449

176Hz

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1420		0.8	1.5	23.0	6.12	1342	674		water clear
1425			4.5	23.2	6.27	1417	708		water clear
1426			5.8						Depleted

FINAL VOLUME PURGED 6.52  
 TIME SAMPLED 1420 1510  
 SAMPLE ID# RS-02  
 NOTES \_\_\_\_\_

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MtBE  
SAMPLE CONTAINERS 3-HCl PRESERVED 40CC VOA'S  
 LABORATORY USED KIFF Analytical







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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004 START TIME 1450  
 WELL ID# RS-06 SAMPLE BY CONVERSE  
 CASING ELEVATION, IN FEET 227.22 WATER COLUMN, IN FEET 16.0  
 CASING TOTAL DEPTH, IN FEET 34.06 G/L PURGE ONE CASING VOLUME 392  
 CASING DIAMETER IN INCHES 4" (CASING MULTIPLIERS: 2 INCH = 0.165 g/ FT  
 DEPTH TO TOP OF FLUID 17.95 2" = 0.625 L/FT 4 INCH = 0.65 g/ FT  
 4" = 2.46 L/FT 6 INCH = 1.47 g/FT)  
 DEPTH TO TOP OF WATER 17.95 FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)  
 TOP OF WATER ELEVATION \_\_\_\_\_ FREE PHASE PRODUCT THICKNESS \_\_\_\_\_  
 PUMP TYPE GRUNDFOS REDIFLOW 2 PUMP RATE \_\_\_\_\_  
 DTW METER USED SOLINST MODEL 122 pH, Cond, Temp meter used HANNA HI 99130

2 3  
2.46  
16  
1476  
246  
3956

TIME	INTAKE DEPTH	RATE GPM/LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1455			1.5	21.1	6.62	1077	539		water clear
		1.6	4.5	21.7	6.49	1078	537		
1500			10.5	22.1	6.41	1065	532		
1502			16.5	22.2	6.40	1059	530		
1505			22.5	22.5	6.37	1033	515		
1510			28.5	22.8	6.38	996	498		
1514			34.5	23.0	6.38	973	486		
1520			43.5	23.2	6.42	974	487		
1522			46.5	23.3	6.44	980	490		
			48.0						

176 Hz  
250 Hz  
1101  
611  
101  
111111  
11

FINAL VOLUME PURGED 4800

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MtBE

TIME SAMPLED 1525

SAMPLE CONTAINERS 3-HCl PRESERVED 40CC VOA'S

SAMPLE ID# RS-06

LABORATORY USED KIFF Analytical

NOTES \_\_\_\_\_



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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME 11:35

WELL ID# RS-07

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 195.99

WATER COLUMN, IN FEET 347

CASING TOTAL DEPTH, IN FEET 7.25

G/L PURGE ONE CASING VOLUME 7.48

CASING DIAMETER IN INCHES 4"

(CASING MULTIPLIERS: 2 INCH = 0.165 g/ FT

DEPTH TO TOP OF FLUID 4.18

2" = 0.625 L/FT

4 INCH = 0.65 g/ FT

4" = 2.46 L/FT

6 INCH = 1.47 g/FT

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

DEPTH TO TOP OF WATER 4.18

FREE PHASE PRODUCT THICKNESS 0

TOP OF WATER ELEVATION

PUMP TYPE GRUNDFOS REDIFLOW 2

PUMP RATE

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
		2.4	1.5	22.2	6.51	842	218 842		water cloudy to odor
1135			7.5	23.1	6.48	756	377		clear
1136			10.5	23.3	6.50	735	367		
1137		2.2	13.5	23.3	6.53	716	358		water clear to odor
1139			15.5	23.4	6.55	714	356		
1140		1.5	19.0	23.3	6.56	708	354		
1142			22.0	23.3	6.57	706	352		
									DTW

FINAL VOLUME PURGED 23.5

ANALYSIS INCLUDES: 8260B TPHg, BTEX,  
M&BE

TIME SAMPLED 1145

SAMPLE CONTAINERS 3-HCI PRESERVED  
40CC VOA'S

SAMPLE ID# RS-07

LABORATORY USED KIFF Analytical

NOTES

2.48  
7  
7.38

247 ft  
208 ft

163 ft





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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME 11:35

WELL ID# RS-09

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 195.63

WATER COLUMN, IN FEET 11.5 - 6.25 =

CASING TOTAL DEPTH, IN FEET 15.50

G/L PURGE ONE CASING VOLUME 6.9 L = 21 L

CASING DIAMETER IN INCHES 2"

(CASING MULTIPLIERS: 2 INCH = 0.165 g/L FT

DEPTH TO TOP OF FLUID 4.18

2" = 0.625 L/FT

4 INCH = 0.65 g/L FT

DEPTH TO TOP OF WATER 4.18

4" = 2.46 L/FT

6 INCH = 1.47 g/L FT

TOP OF WATER ELEVATION

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS (L)

PUMP TYPE GRUNDFOS REDIFLOW 2

FREE PHASE PRODUCT THICKNESS 0

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

TIME	INTAKE DEPTH	RATE GPM LPM	CUM. VOL GAL LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
10:38		2.0	1.5	21.8	6.35	488	248		brassy soft
1040			4.0	21.5	6.31	512	256		
1043			7.0	22.0	6.29	510	255		water clear
		1.4	10.0	22.1	6.28	521	260		water clear
1045			13.0	22.0	6.28	537	268		water clear
1047			16.0	21.8	6.29	647	316		water clear
1050			18.0	21.8	6.27	733	368		water clear
1052			21.0	21.7	6.27	836	419		water clear
1055			24.0	21.6	6.28	937	467		
1057			27.0	21.6	6.28	957	478		DTW
									17.15

FINAL VOLUME PURGED 28.5 L

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MtBE

TIME SAMPLED 11:00

SAMPLE CONTAINERS 3-HCl PRESERVED 40CC VOA'S

SAMPLE ID# RS-09

LABORATORY USED KIFF Analytical

NOTES

675  
625  
625  
69325

220 Hz

190 Hz

161 Hz



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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME \_\_\_\_\_

WELL ID# RS-10

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 208.46

WATER COLUMN, IN FEET 3.4

CASING TOTAL DEPTH, IN FEET 9.8

G/L PURGE ONE CASING VOLUME .5

CASING DIAMETER IN INCHES 2"

(CASING MULTIPLIERS: 2 INCH = 0.165 g/ FT

DEPTH TO TOP OF FLUID 6.75

2" = 0.625 L/FT

4 INCH = 0.65 g/ FT

4" = 2.46 L/FT

6 INCH = 1.47 g/FT)

DEPTH TO TOP OF WATER 6.75

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION \_\_\_\_\_

FREE PHASE PRODUCT THICKNESS \_\_\_\_\_

PUMP TYPE DISPOSABLE BAILER

PUMP RATE \_\_\_\_\_

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

TIME	INTAKE DEPTH	RATE GPM/ <del>FT</del>	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
12:05	1-1/2'		1.0	20.6	6.70	331	164		Clear no odor
12:10	2'		2.0	19.1	6.46	361	181 <del>363</del>		
12:11			2.5	18.6	6.39	353	176		water cloudy

FINAL VOLUME PURGED 2.5 GA

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MIBE

TIME SAMPLED 12:12

SAMPLE CONTAINERS 3-HCI PRESERVED 40CC VOA'S

SAMPLE ID# RS-10

LABORATORY USED KIFF Analytical

NOTES \_\_\_\_\_

*Handwritten notes:*  
-065  
495



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WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME 16:10

WELL ID# R-01

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 227.69

WATER COLUMN, IN FEET 1.8

CASING TOTAL DEPTH, IN FEET 16.80

G/L PURGE ONE CASING VOLUME 10L

CASING DIAMETER IN INCHES 6"

(CASING MULTIPLIERS: 2 INCH = 0.165 gal/ FT

DEPTH TO TOP OF FLUID 15.06

4" = 2.46 L/FT

4 INCH = 0.65 gal/ FT

6" = 5.56 L/FT

6 INCH = 1.47 gal/FT

DEPTH TO TOP OF WATER 15.06

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION

FREE PHASE PRODUCT THICKNESS

PUMP TYPE GRUNDFOS REDIFLOW 2

PUMP RATE

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

TIME	INTAKE DEPTH	RATE GPM/ LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
16:10		0.9	<del>0.9</del> 1.5	20.1	6.87	1108	558		water clear
16:20			9.0	20.8	6.70	1078	540		
16:25			18.0	21.1	6.69	1034	516		
16:30			27.0	21.1	6.68	928	462		
			36.0	21.1	6.67	902	451		

FINAL VOLUME PURGED 38L

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MIBE

TIME SAMPLED 16:45

SAMPLE CONTAINERS 3-HCl PRESERVED 40CC VOA'S

SAMPLE ID# R-01

LABORATORY USED KIFF Analytical

NOTES

44  
5.56  
1.8  
4.48  
3.36  
10.008

182 1/2



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**WELL SAMPLE DATA SHEET**

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

DATE September 28, 2004

START TIME 1415

WELL ID# R-02

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 227.28

WATER COLUMN, IN FEET 2.0

CASING TOTAL DEPTH, IN FEET 16.92

G/L PURGE ONE CASING VOLUME 11.12

CASING DIAMETER IN INCHES 6"

(CASING MULTIPLIERS: 2 INCH = 0.165 gal/ FT

DEPTH TO TOP OF FLUID 17.02/14.8

4" = 2.46 L/FT

4 INCH = 0.65 gal/ FT

6" = 5.56 L/FT

6 INCH = 1.47 gal/FT

DEPTH TO TOP OF WATER 17.02/14.8

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION

FREE PHASE PRODUCT THICKNESS 0

PUMP TYPE GRUNDFOS REDIFLOW 2

PUMP RATE

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

TIME	INTAKE DEPTH	RATE GPM/LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1535			1.5	22.1	6.31	1503	752		2 water clear
1543			3.0	21.9	6.36	1507	753		
1547			12.0	21.7	6.36	1447	723		
1550			17.0	21.5	6.46	1418	709		
16:00			26.0	21.4	6.51	1405	702		
16:04			35.0	21.4	6.53	1402	701		water clear
			36.5						

FINAL VOLUME PURGED 36.5

ANALYSIS INCLUDES: 8260B TPHg, BTEX,

MtBE

TIME SAMPLED 16.05

SAMPLE CONTAINERS 3-HCl PRESERVED

40CC VOA'S

SAMPLE ID# R-02

LABORATORY USED KIFF Analytical

NOTES

S.F.G.  
11.12

172H

111



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CALIF. CONTRACTOR #513857  
REGISTERED GEOLOGISTS

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

WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME \_\_\_\_\_

WELL ID# R-03

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 227.25

WATER COLUMN, IN FEET 0.64

CASING TOTAL DEPTH, IN FEET 11.74

G/L PURGE ONE CASING VOLUME \_\_\_\_\_

CASING DIAMETER IN INCHES 6"

(CASING MULTIPLIERS: 2 INCH = 0.165 g/ FT

DEPTH TO TOP OF FLUID 11.1

4" = 2.46 L/FT                      4 INCH = 0.65 g/ FT

6" = 5.56 L/FT                      6 INCH = 1.47 g/FT)

DEPTH TO TOP OF WATER 11.1

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION \_\_\_\_\_

FREE PHASE PRODUCT THICKNESS \_\_\_\_\_

PUMP TYPE GRUNDFOS REDIFLOW 2

PUMP RATE \_\_\_\_\_

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

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

*= bottom shoe*

*Dry*

FINAL VOLUME PURGED \_\_\_\_\_

ANALYSIS INCLUDES: 8260B TPHg, BTEX,

TIME SAMPLED \_\_\_\_\_

MtBE

SAMPLE ID# R-03

SAMPLE CONTAINERS 3-HCI PRESERVED

NOTES \_\_\_\_\_

40CC VOA'S

LABORATORY USED KIFF Analytical





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

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

WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME 11:30

WELL ID# RECEPTOR TRENCH T1, T2, T3, T4 SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET ~~72.195.50~~ WATER COLUMN, IN FEET \_\_\_\_\_

CASING TOTAL DEPTH, IN FEET 10 G/L PURGE ONE CASING VOLUME \_\_\_\_\_

CASING DIAMETER IN INCHES 4"

(CASING MULTIPLIERS: 2 INCH = 0.165 gl/ FT

DEPTH TO TOP OF FLUID \_\_\_\_\_

2" = 0.625 L/FT

4 INCH = 0.65 gl/ FT

4" = 2.46 L/FT

6 INCH = 1.47 gl/FT

DEPTH TO TOP OF WATER \_\_\_\_\_

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION \_\_\_\_\_

FREE PHASE PRODUCT THICKNESS \_\_\_\_\_

PUMP TYPE GRUNDFOS REDIFLOW 2

PUMP RATE \_\_\_\_\_

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

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

*Flux pumped Trench for 5 hours*

*21.7 GTP 705 359*

*med gas etc*

FINAL VOLUME PURGED \_\_\_\_\_

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MIBE

TIME SAMPLED 1600

SAMPLE CONTAINERS 3-HCI PRESERVED

SAMPLE ID# T-01

40CC VOA'S

NOTES \_\_\_\_\_

LABORATORY USED KIFF Analytical



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

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

WELL SAMPLE DATA SHEET

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

DATE September 28, 2004

START TIME \_\_\_\_\_

WELL ID# LF-01

SAMPLE BY CONVERSE

CASING ELEVATION, IN FEET 226.59

WATER COLUMN, IN FEET 10 ft

CASING TOTAL DEPTH, IN FEET 38.70

G/L PURGE ONE CASING VOLUME 6.25 L

CASING DIAMETER IN INCHES 2"

(CASING MULTIPLIERS: 2 INCH = 0.165 gal/ FT

DEPTH TO TOP OF FLUID 28.72

2" = 0.625 L/FT

4 INCH = 0.65 gal/ FT

4" = 2.46 L/FT

6 INCH = 1.47 gal/FT)

DEPTH TO TOP OF WATER 28.72

FT<sup>3</sup> WATER 7.48 GALLONS (G)/28.3 LITERS(L)

TOP OF WATER ELEVATION \_\_\_\_\_

FREE PHASE PRODUCT THICKNESS \_\_\_\_\_

PUMP TYPE GRUNDFOS REDIFLOW 2

PUMP RATE \_\_\_\_\_

DTW METER USED SOLINST MODEL 122

pH, Cond, Temp meter used HANNA HI 99130

TIME	INTAKE DEPTH	RATE <del>GPM</del> LPM	CUM. VOL GAL. LITERS	TEMP (°C)	pH (units)	Specific Electrical Conductance (uS/cm)	Total Dissolved Solids (ppm)	Dissolved Oxygen (mg/L)	Remarks (color, odor, etc.)
1305		0.8	1.5	20.5	6.51	<del>20</del> 590	295		muddy water
1310			4.5	21.10	6.49	561	281		silty water
1313			7.5	22.2	6.46	562	281		silty water
1315			10.5	21.5	6.44	559	279		
1317			13.5	21.5	6.39	576	288		water cloudy
1320			15.0						depleted

FINAL VOLUME PURGED 16.5 L

ANALYSIS INCLUDES: 8260B TPHg, BTEX, MtBE

TIME SAMPLED 1345

SAMPLE CONTAINERS 3-HCl PRESERVED 40CC VOA'S

SAMPLE ID# LF-01

LABORATORY USED KIFF Analytical

NOTES \_\_\_\_\_





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

Lab No. \_\_\_\_\_

Page 1 of 2

Project Contact (Hardcopy or PDF To):  
*Casey Connors*

California EDF Report?  Yes  No

**Chain-of-Custody Record and Analysis Request**

Company/Address: *WEGE 1386 E Bremer St  
 Ukiah, CA 95716*

Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: *WGEW*

Phone No.: *530 668 5700*

FAX No.:

Global ID:  
*T-0-6-0-0-1-0-0-1-5-8*

Project Number:  
*DP 793*

P.O. No.:

EDF Deliverable To (Email Address):  
*wge@calnet*

Project Name:  
*DP 793 Veg*

Sampler Signature:  
*[Signature]*

Project Address:  
*Oakland*

Date	Time	Sampling		Container				Preservative				Matrix	
		40 ml VOA	SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL				

**Sample Designation**

Sample Designation	Date	Time	40 ml VOA	SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL
W6001	9-28-04	1407	3		/	/	/		/	
RS 02	[Large bracket]	1510	3		/	/	/		/	
RS 05		1015	3		/	/	/		/	
RS 06		1525	3		/	/	/		/	
RS 07		1145	3		/	/	/		/	
RS 08		1235	3		/	/	/		/	
RS 09		1100	3		/	/	/		/	
RS 10		1212	3		/	/	/		/	
RO 1		1645	3		/	/	/		/	
RO 2		1605	3		/	/	/		/	

Analysis Request													TAT
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)	12 hr, 24 hr/48 hr/72 hr/1 wk
				/									

Relinquished by: *[Signature]*

Date: *9-29-04*  
 Time: *10:00*

Received by: \_\_\_\_\_

Remarks:

Relinquished by: \_\_\_\_\_

Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date: *092904*  
 Time: *1008*

Received by Laboratory: *[Signature]*  
*KIFF Analytical*

Bill to: *Bill WEGE*



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

Lab No. \_\_\_\_\_

Page 2 of 2

Project Contact (Hardcopy or PDF To): Gene Conner  
 Company/Address: 1386 E Beam St WEGE Woodland CA 95776  
 Phone No.: 530.668.5300 FAX No.: \_\_\_\_\_  
 Project Number: DP793 P.O. No.: \_\_\_\_\_  
 Project Name: DP793 4/4/04  
 Project Address: Woodland

California EDF Report?  Yes  No  
 Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: \_\_\_\_\_  
 Global ID: \_\_\_\_\_  
 EDF Deliverable To (Email Address): \_\_\_\_\_  
 Sampler Signature: [Signature]

**Chain-of-Custody Record and Analysis Request**

Sample Designation	Sampling		Container				Preservative				Matrix		Analysis Request											TAT	For Lab Use Only					
	Date	Time	40 ml VOA	SLEEVE			HCl	HNO <sub>3</sub>	ICE	NONE	WATER	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)	12 hr/24 hr/48 hr/72 hr/1 wk		
TOI	9-28-04	1600	3				/	/		/							/													1 day
LF01	}	1345	3				/	/		/							/													1 day
EQB		1700	3				/	/		/							/													1 day

Relinquished by: <u>[Signature]</u>	Date: <u>9-29-04</u>	Time: <u>1008</u>	Received by: _____	Remarks:  Bill to: <u>Bill WEGE</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	
Relinquished by: _____	Date: <u>092904</u>	Time: <u>1008</u>	Received by Laboratory: <u>[Signature]</u> KIFF Analytical	



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

Lab No. \_\_\_\_\_ Page 1 of 1

Project Contact (Hardcopy or PDF To): George Conover  
 Company/Address: 1386 E Beamer St  
WEGE Woodland, CA  
 Phone No.: 530 668 5300 FAX No.: \_\_\_\_\_  
 Project Number: DP793 P.O. No.: \_\_\_\_\_  
 Project Name: DP793 - Sewer Discharge  
 Project Address: 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): \_\_\_\_\_  
 Sampler Signature: [Signature]

**Chain-of-Custody Record and Analysis Request**

Sample Designation	Sampling		Container				Preservative				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	For Lab Use Only			
	Date	Time	40 ml VOA	SLEEVE	HCl	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL																				
<u>Sewer</u>	<u>9-28-04</u>	<u>10:00</u>	<u>3</u>		<u>✓</u>	<u>✓</u>			<u>✓</u>																					

Relinquished by: <u>[Signature]</u>	Date: <u>9-28-04</u>	Time: <u>10:00</u>	Received by: _____	Remarks:
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	
Relinquished by: _____	Date: <u>092904</u>	Time: <u>1000</u>	Received by Laboratory: <u>B. A. B.</u> <u>KIFF Analytical</u>	

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 6/20/07

REASON FOR SITE VISIT weekly C&M Planing Tank

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

DEPTH TO WATER

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

COMMENTS Start trench @ 12:30. pull pump RS-5 - clean input #2 impeller, valve, remove (no space with mo)  
put pump back in place. RS-5 is wash - left in place pump back into RS-5

ELECTRIC METER \_\_\_\_\_  
 WATER METER 1787786.1  
RS-5 1786027.0  
1759.1  
 WASTEWATER INFLUENT EFFLUENT  
 TIME \_\_\_\_\_  
 pH \_\_\_\_\_  
 Conductivity \_\_\_\_\_  
 Temperature \_\_\_\_\_  
 PID \_\_\_\_\_

SAMPLE # \_\_\_\_\_

SITE MONITORED BY: Conley

WATER TREATMENT

T1 FLOW RATE 6 GALLONS/ 1 MINUTES  
 T2 FLOW RATE \_\_\_\_\_ GALLONS/ \_\_\_\_\_ MINUTES  
 GALLONS PURGED 1759.1  
 GALLONS PURGED \_\_\_\_\_  
 PRESSURE WATER CARBONS #1 8 PSI, #2 3 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

1786027  
1783576  
2451





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 7-22-04

REASON FOR SITE VISIT weekly O/M

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

DEPTH TO WATER

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

COMMENTS Not Pumping clearly visit.

ELECTRIC METER \_\_\_\_\_

WATER METER 179170.5  
87858.5  
3312.0

SAMPLES: None

SITE MONITORED BY Conner

TIME	WASTEWATER	
	INFLUENT	EFFLUENT
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE \_\_\_\_\_ GALLONS/ \_\_\_\_\_ MINUTES  
T2 FLOW RATE \_\_\_\_\_ GALLONS/ \_\_\_\_\_ MINUTES  
GALLONS PLRGD \_\_\_\_\_  
GALLONS PLRGD \_\_\_\_\_

PRESSURE WATER CARBONS #1 \_\_\_\_\_ PSI, #2 \_\_\_\_\_ PSI.

WATER PHASE CARBON UNITS INSPECTION COMMENTS #1 partly lid #2 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



WESTERN  
GEO-ENGINEERS  
CALIF. CONTRACTOR #513857  
REGISTERED GEOLOGISTS

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

FROM: George Converse

DATE: 7-26-04

TO: City of Oakland

FAX #: 510-238-2263

Chris

510 238 3759

Total pages including this page: 2

We need a permit for 7/29/04, this week.  
The previous permit # OB 040371 was for  
6/30/04.

Please fax new permit to 530 662-0273

Thank you,

George Converse

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612

Appl# OB040437

Job Site 4035 PARK BL

Parcel# 024 0533-007-00

Permit Issued 07/27/04

Close portion of sidewalk from curb to P/L for 1-1/2" hose for contaminated water discharge TO SANITARY SEWER on Park bet Hampel & Brighton Av (treated water) FAX permit

4035 PARK BLVD

Linear feet: 25  
Expiration: 07/29/04

Nbr of days: 1  
Effective: 07/29/04

SHORT TERM NON METERED

	Applicant	Phone#	Lic#	--License Classes--
Owner	WESTERN GEO-ENGINEERS	(530)660 5300		
Contractor	WESTERN GEO-ENGINEERS	(530)668-5300	513857	CS7
Arch/ENGR				
Agent	STEPHEN BROADWAY			
Applic Addr	1386 EAST BEAMER ST, WOODLAND CA, 95776			

\$14.92 TOTAL FEES PAID AT ISSUANCE	\$17.00 Permit
\$ .00 Applic	\$1.24 Reg Mgmt
\$ .00 Process	\$ .00 Invtg
\$ .00 Gen Plan	\$ .68 Tech Esh
\$ .00 Other	

DIST. ADDRESS

*fax 530-662-0273*

**JOB SITE**

Applicant: \_\_\_\_\_  
Issued by: *slr* \_\_\_\_\_ *7/27/04*

Date: 07/27/04 Amt Paid: \$14.92  
By: RM Register RB3 Receipt# 889695

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 7-29-04

REASON FOR SITE VISIT Monthly Trench pump & C/W

TIME	TRENCH WELL T1				
	PID	DTW	pH	TEMP.	COND.

TIME	TRENCH WELL T2				
	PID	DTW	pH	TEMP.	COND.

TIME	TRENCH WELL T3				
	PID	DTW	pH	TEMP.	COND.

TIME	TRENCH WELL T4				
	PID	DTW	pH	TEMP.	COND.

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6

TIME	RS7	RS8	RS9	RS10

TIME	R1	R2	R3

TIME			

COMMENTS No power to compound. Call Ken Man Li 510 544 7000. Building owner where he was having power - disconnected power to site. He will get PG&E to bring in power.  
ELECTRIC METER \_\_\_\_\_ WATER METER 1791170.5

SAMPLE(S) None

SITE MONITORED BY: Conner

TIME	WASTEWATER	
	INFLUENT	EFFLUENT

WATER TREATMENT

T1 FLOW RATE \_\_\_\_\_ GALLONS/ \_\_\_\_\_ MINUTES  
T2 FLOW RATE \_\_\_\_\_ GALLONS/ \_\_\_\_\_ MINUTES

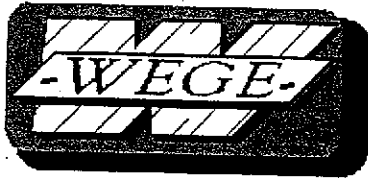
GALLONS PURGED \_\_\_\_\_  
GALLONS PURGED \_\_\_\_\_

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



WESTERN  
GEO-ENGINEERS  
CALIF. CONTRACTOR #513857  
REGISTERED GEOLOGISTS

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

FROM: George Converse

DATE: 9-14-04

TO: City of Oakland  
Chris

FAX #: 510 238-2263

510-238-3759  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total pages including this page: 2

We needed a permit for 9-9-04, we did not receive it until 9-13-04. We have postponed the work until 9-28-04. Could you re-issue the permit you sent yesterday to reflect the new date of 9-28-04.

Please fax permit to 530 662-0273

Thank you  
George Converse

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

Job Site 4035 PARK BL

Parcel# 024 -0533-007-00

Appl# OB040562

Close portion of sidewalk from curb to P/L for 1-1/2" hose for contaminated water discharge TO SANITARY SEWER on Park bet Hampel & Brighton Av (treated water) FAX permit

Permit Issued 09/07/04

4035 PARK BL

Nbr of days: 1  
Effective: 09/09/04

Linear feet: 25  
Expiration: 09/09/04

SHORT TERM NON-METERED

Owner WESTERN GEO-ENGINEERS  
Contractor WESTERN GEO-ENGINEERS  
Arch/Engr  
Agent GEORGE CONVERSE  
Applic Addr 1386 EAST BEAMER ST, WOODLAND CA, 95776

Applicant Phone# License Classes--  
(530) 668-5300  
X (530) 668-5300 513854-C57

\$14.92 TOTAL FEES PAID AT ISSUANCE  
\$.00 Applic \$13.00 Permit  
\$.00 Process \$1.24 Rec Mgmt  
\$.00 Gen Plan \$.00 Invstg  
\$.00 Other \$.68 Tech Enh

DIST: ADDRESS:

**FILE COPY**

Applicant: Fax

Issued by: [Signature]

9.7.04



WESTERN  
GEO-ENGINEERS  
CALIF. CONTRACTOR #513857  
REGISTERED GEOLOGISTS

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

## FAX COVER SHEET

FROM: George Converse

DATE: 9-3-04

TO: City of Oakland  
Chris  
510 238 3759

FAX #: 510 238 2263

Total pages including this page: 2

We need a permit for <sup>9-28-04</sup>~~9-9-04~~, next week  
The previous permit # OB040437 was for  
7/27/04.

Please fax new permit to 530 662 0273

City offices closed

Thank you,  
George Converse

Trouble with transmission or reception, please call (530) 668-5300.

TOTAL P.01

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612

Job Site 4035 PARK BL

Parcel# 024 -0593-007-00

Appl# OB040437

Close portion of sidewalk from curb to P/L for 1-1/2" hose for contaminated water discharge TO SANITARY SEWER on Park bet Hampel & Brighton Av (treated water) FAX permit

Permit Issued 07/27/04

4035 PARK BLVD

Linear feet: 25  
Expiration: 07/29/04

Nox of days: 1  
Effective: 07/29/04

SHORT TERM NON METERED

	Applicant	Phone#	Lic#	--License Classes--
Owner	WESTERN GEO-ENGINEERS	(530) 660 5300		
Contractor	WESTERN GEO-ENGINEERS			
Arch/Engr				
Agent	STEPHEN BROADWAY	(530) 669-5300	513857	CS1
Applic Addr	1386 EAST BEARER ST, WOODLAND CA, 95776			

\$14.92 TOTAL FEES PAID AT ISSUANCE			
\$0.00	Applic	\$03.00	Permit
\$0.00	Process	\$1.24	Per Mgmt
\$0.00	Gen Plan	\$0.00	Invstg
\$0.00	Other	\$0.68	Tech Bul

ADDRESS

DISC

*fax 530-662-0273*

JOB SITE

Applicant: \_\_\_\_\_

Issued by: SLR \_\_\_\_\_ *7/27/04*

Date: 6/27/04 Amt Paid: \$14.92  
By: [Signature] Register R63 Receipt# 889695

P.01/01

JUL-27-2004 14:04





WESTERN  
GEO-ENGINEERS  
CALIF. CONTRACTOR #513857  
REGISTERED GEOLOGISTS

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

FROM: George Converse

DATE: 9-14-04

TO: City of Oakland  
Chris

FAX #: 510 238-2263

510-238-3759  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total pages including this page: 2

We needed a permit for 9-9-04, we did not receive it until 9-13-04. We have postponed the work until 9-28-04. Could you re-issue the permit you sent yesterday to reflect the new date of 9-28-04.

Please fax permit to 530 662-0273

Thank you  
George Converse

FORMER DESERT PETROLEUM SITE OP 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 9-24-09

REASON FOR SITE VISIT Check on River Installation to Site

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 River Road in. Need 100 ft of pipe and to reach pump controller

ELECTRIC METER 00000

WATER METER 1791170.0

SAMPLES None

SITE MONITORED BY Conner

TIME  
pH  
Conductivity  
Temperature  
PID

WASTEWATER	
INFLUENT	EFFLUENT

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

CITY OF OAKLAND • Community and Economic Development Agency  
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2283

Job Site 4035 PARK BL

Parcel# 024 -0533-007-00

Appl# OB040563

Close portion of sidewalk from curb to P/L for 1-1/2"  
nose for contaminated water discharge TO SANITARY SEWER  
on Park bet Hampel & Brighton Av (treated water) FAX permit

Permit Issued 09/13/04

Nbr of days: 1  
Effective: 09/28/04

Linear feet: 25  
Expiration: 09/28/04

4035 PARK BL

SHORT TERM NON-METERED

Owner	WESTERN GEO-ENGINEERS	Applicant	Phone#	License Classes--
Contractor	WESTERN GEO-ENGINEERS		(530) 668-5300	
Arch/Engr			(530) 668-5300-512857 057	
Agent	GEORGE CONVERSE			
Applic Addr	1386 EAST BEAVER ST, WOODLAND CA, 95776			

\$14.92 TOTAL FEES PAID AT ISSUANCE

\$ .00	Applic	\$13.00	Permit
\$ .00	Process	\$1.24	Rec Mgmt
\$ .00	Gen Plan	\$ .00	Invstg
\$ .00	Other	\$ .68	Tech Enh

JOB SITE

CITY OF OAKLAND

DIST. ADDRESS

Applicant:                     FAR                    

Issued by:                     [Signature]                     9.15.04

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 9-28-04

REASON FOR SITE VISIT Pump trench 1/4" Sampling

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 High up 100ft fence and to RS-5 Controller

ELECTRIC METER 0000000004

T1 1793186.5  
WATER METER 1791275.2 RS5  
1911.3

SAMPLE# Sewer discharge  
1/4"

SITE MONITORED BY: Copland

TIME  
pH  
Conductivity  
Temperature  
PID

WASTEWATER	
INFLUENT	EFFLUENT

WATER TREATMENT

T1 FLOW RATE 6 GALLONS/ 1 MINUTES  
T2 FLOW RATE \_\_\_\_\_ GALLONS/ \_\_\_\_\_ MINUTES

GALLONS PURGED \_\_\_\_\_  
GALLONS PURGED \_\_\_\_\_

PRESSURE WATER CARBONS #1 6.5 PSI, #2 5.0 PSI

WATER PHASE CARBON UNITS INSPECTION COMMENTS good

CONDITION OF COMPOUND COMMENTS clean

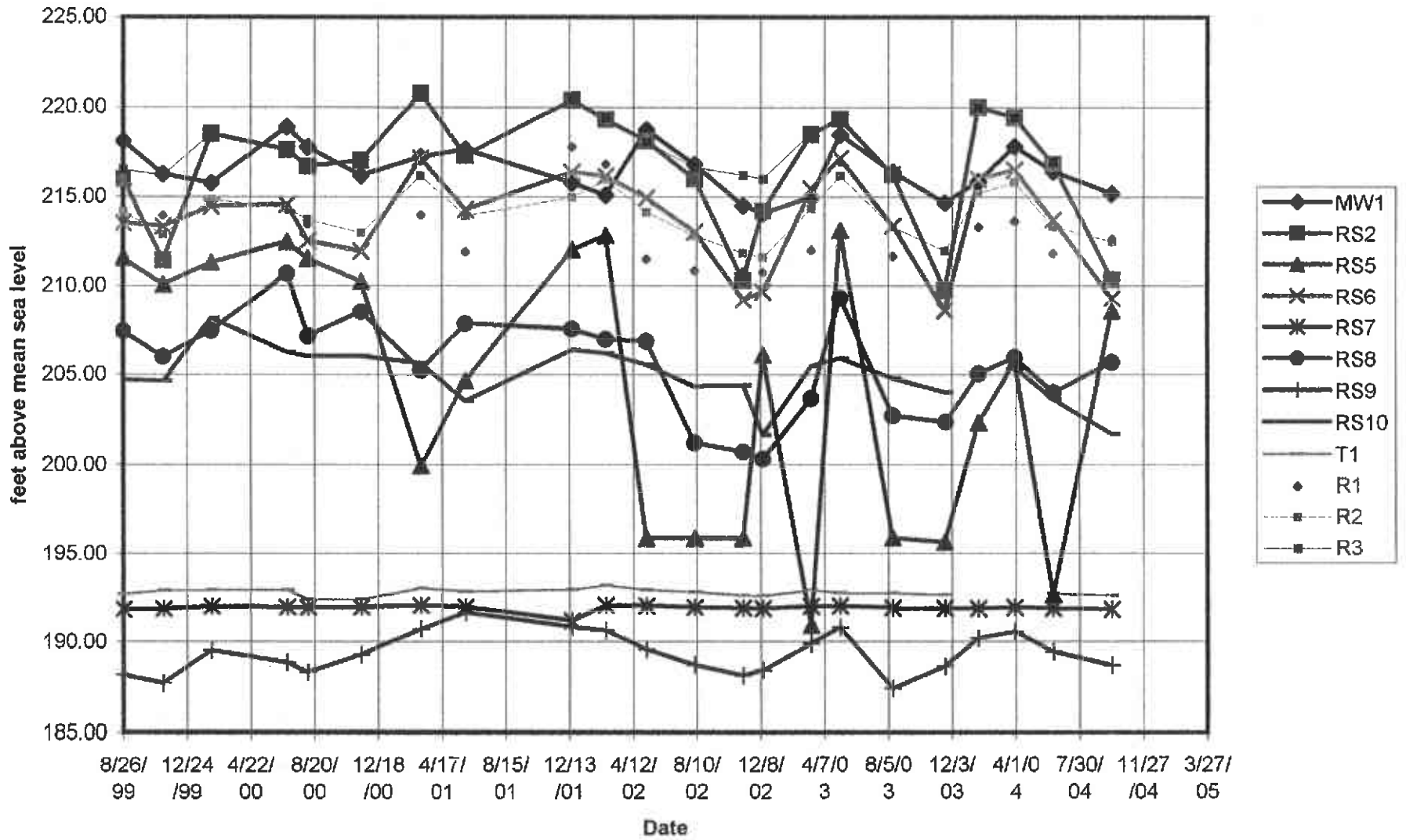
Acceptance of water phase carbon units only if completely flooded with water  yes  no - return to carbon manufacture  
Acceptance of water phase carbon units only if pH is less than 8.5 and containers are in good condition  yes  no - return to carbon manufacture

9/30/04 1794233.0  
1793186.5  
1048.5

Beam fell off water  
from pumping system off  
#1 Carbon must have leak at base

APPENDIX B.  
GROUNDWATER ELEVATION CHART

### Groundwater Elevation





Report Number : 40331

Date : 10/6/2004

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

Subject : 13 Water Samples  
Project Name : DP793 ¼ly  
Project Number : DP793

Dear Mr. Converse,

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

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

Sincerely,



Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Subject : 13 Water Samples  
Project Name : DP793 1/4ly  
Project Number : DP793

## Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with sample RS08 for the analyte Benzene were affected by the analyte concentration already present in the un-spiked sample.

Matrix Spike/Matrix Spike Duplicate Results associated with samples RS02, RS05, RS06, RS07 and RS09 for the analyte Methyl-t-butyl ether were affected by the analyte concentration already present in the un-spiked sample.

Approved By:

A handwritten signature in black ink, appearing to read "Jeff Dahl", is written over the printed name.

Jeff Dahl





Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Sample : MW01

Matrix : Water

Lab Number : 40331-01

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/30/2004
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	9/30/2004
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	9/30/2004

Sample : RS02

Matrix : Water

Lab Number : 40331-02

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	10/1/2004

Approved By:

Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Project Name : DP793 ¼ly

Project Number : DP793

Sample : RS05

Matrix : Water

Lab Number : 40331-03

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	110	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	89	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	75	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	56	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	2600	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/1/2004

Sample : RS06

Matrix : Water

Lab Number : 40331-04

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	10/1/2004

Approved By:

Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Sample : RS07

Matrix : Water

Lab Number : 40331-05

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	640	1.0	ug/L	EPA 8260B	10/3/2004
Toluene	20	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	110	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	130	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	2.8	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	5000	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/1/2004

Sample : RS08

Matrix : Water

Lab Number : 40331-06

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	59	1.0	ug/L	EPA 8260B	10/3/2004
Toluene	20	1.0	ug/L	EPA 8260B	10/3/2004
Ethylbenzene	100	1.0	ug/L	EPA 8260B	10/3/2004
Total Xylenes	170	1.0	ug/L	EPA 8260B	10/3/2004
Methyl-t-butyl ether (MTBE)	< 1.0	1.0	ug/L	EPA 8260B	10/3/2004
TPH as Gasoline	6000	500	ug/L	EPA 8260B	10/5/2004
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	10/3/2004
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	10/3/2004

Approved By:

Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Sample : RS09

Matrix : Water

Lab Number : 40331-07

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1800	2.5	ug/L	EPA 8260B	10/3/2004
Toluene	5.9	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	5.0	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	16	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	31	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	4900	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	10/1/2004

Sample : RS10

Matrix : Water

Lab Number : 40331-08

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	4.6	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	95.5		% Recovery	EPA 8260B	10/1/2004

Approved By:

Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Sample : R01

Matrix : Water

Lab Number : 40331-09

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	35	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	2.2	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	12	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	4.4	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	2000	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	96.7		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	10/1/2004

Sample : R02


Matrix : Water

Lab Number : 40331-10

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	120	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	2.0	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	25	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	2.7	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	0.71	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	500	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	97.4		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	10/1/2004

Approved By:

  
Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Sample : T01

Matrix : Water

Lab Number : 40331-11

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2600	5.0	ug/L	EPA 8260B	10/5/2004
Toluene	100	5.0	ug/L	EPA 8260B	10/5/2004
Ethylbenzene	450	5.0	ug/L	EPA 8260B	10/5/2004
Total Xylenes	240	5.0	ug/L	EPA 8260B	10/5/2004
Methyl-t-butyl ether (MTBE)	15	5.0	ug/L	EPA 8260B	10/5/2004
TPH as Gasoline	8700	500	ug/L	EPA 8260B	10/5/2004
Toluene - d8 (Surr)	104		% Recovery	EPA 8260B	10/5/2004
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	10/5/2004

Sample : LF01

Matrix : Water

Lab Number : 40331-12

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	10/1/2004

Approved By:

Jeff Dahl



Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Sample : EQB

Matrix : Water

Lab Number : 40331-13

Sample Date : 9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	10/1/2004

Approved By:

  
Jeff Dahl

Report Number : 40331

Date : 10/6/2004

**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	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	102		%	EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	10/2/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/2/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/2/2004
Toluene - d8 (Surr)	95.1		%	EPA 8260B	10/2/2004
4-Bromofluorobenzene (Surr)	97.1		%	EPA 8260B	10/2/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/4/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/4/2004
Toluene - d8 (Surr)	92.5		%	EPA 8260B	10/4/2004
4-Bromofluorobenzene (Surr)	103		%	EPA 8260B	10/4/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/30/2004
Toluene - d8 (Surr)	99.4		%	EPA 8260B	9/30/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	9/30/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	98.3		%	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	105		%	EPA 8260B	10/1/2004
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/1/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/1/2004
Toluene - d8 (Surr)	99.9		%	EPA 8260B	10/1/2004
4-Bromofluorobenzene (Surr)	95.2		%	EPA 8260B	10/1/2004

Approved By: Jeff Dahl



Report Number : 40331

Date : 10/6/2004

**QC Report : Method Blank Data**

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

Project Number : **DP793**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/30/2004
Toluene - d8 (Surr)	94.3		%	EPA 8260B	9/30/2004
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	9/30/2004

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

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

Approved By:

Jeff Dahl



## 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	40338-06	160	39.1	38.5	163	187	ug/L	EPA 8260B	10/2/04	14.1	75.4	137	70-130	25
Toluene	40338-06	6.5	39.1	38.5	42.8	43.0	ug/L	EPA 8260B	10/2/04	92.7	94.8	2.25	70-130	25
Tert-Butanol	40338-06	54	196	192	239	247	ug/L	EPA 8260B	10/2/04	94.5	100	5.79	70-130	25
Methyl-t-Butyl Ether	40338-06	19	39.1	38.5	51.2	50.9	ug/L	EPA 8260B	10/2/04	81.9	82.6	0.775	70-130	25
Benzene	40333-14	0.56	40.8	39.4	39.8	37.5	ug/L	EPA 8260B	10/2/04	96.0	93.5	2.66	70-130	25
Toluene	40333-14	<0.50	40.8	39.4	38.2	35.0	ug/L	EPA 8260B	10/2/04	93.7	88.8	5.36	70-130	25
Tert-Butanol	40333-14	<5.0	204	197	209	197	ug/L	EPA 8260B	10/2/04	102	99.7	2.68	70-130	25
Methyl-t-Butyl Ether	40333-14	0.75	40.8	39.4	38.0	35.1	ug/L	EPA 8260B	10/2/04	91.3	87.1	4.69	70-130	25
Benzene	40354-06	<0.50	39.9	40.0	40.0	40.4	ug/L	EPA 8260B	10/4/04	100	101	0.771	70-130	25
Toluene	40354-06	<0.50	39.9	40.0	37.2	36.5	ug/L	EPA 8260B	10/4/04	93.3	91.3	2.18	70-130	25
Tert-Butanol	40354-06	<5.0	200	200	208	198	ug/L	EPA 8260B	10/4/04	104	99.2	4.78	70-130	25
Methyl-t-Butyl Ether	40354-06	<0.50	39.9	40.0	37.4	39.8	ug/L	EPA 8260B	10/4/04	93.7	99.6	6.10	70-130	25
Benzene	40331-01	<0.50	40.0	40.0	39.9	38.4	ug/L	EPA 8260B	9/30/04	99.7	96.0	3.73	70-130	25
Toluene	40331-01	<0.50	40.0	40.0	39.9	38.7	ug/L	EPA 8260B	9/30/04	99.8	96.8	3.09	70-130	25
Tert-Butanol	40331-01	<5.0	200	200	197	194	ug/L	EPA 8260B	9/30/04	98.7	97.1	1.63	70-130	25
Methyl-t-Butyl Ether	40331-01	<0.50	40.0	40.0	38.3	37.8	ug/L	EPA 8260B	9/30/04	95.7	94.5	1.20	70-130	25
Benzene	40366-02	<0.50	40.0	40.0	39.9	39.5	ug/L	EPA 8260B	10/1/04	99.8	98.8	1.03	70-130	25
Toluene	40366-02	<0.50	40.0	40.0	39.6	39.1	ug/L	EPA 8260B	10/1/04	99.1	97.7	1.46	70-130	25

Approved By:  Jeff Dahl

KIFF ANALYTICAL, LLC

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

Report Number : 40331

Date : 10/6/2004

**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 Recov. Limit	Relative Percent Diff. Limit
Tert-Butanol	40366-02	<5.0	200	200	190	191	ug/L	EPA 8260B	10/1/04	95.2	95.6	0.433	70-130	25
Methyl-t-Butyl Ether	40366-02	7.8	40.0	40.0	48.9	47.8	ug/L	EPA 8260B	10/1/04	103	100	2.75	70-130	25
Benzene	40331-08	4.6	40.0	40.0	43.0	41.5	ug/L	EPA 8260B	10/1/04	96.0	92.3	3.88	70-130	25
Toluene	40331-08	<0.50	40.0	40.0	37.4	36.1	ug/L	EPA 8260B	10/1/04	93.5	90.4	3.38	70-130	25
Tert-Butanol	40331-08	<5.0	200	200	190	185	ug/L	EPA 8260B	10/1/04	95.1	92.7	2.60	70-130	25
Methyl-t-Butyl Ether	40331-08	<0.50	40.0	40.0	37.0	36.7	ug/L	EPA 8260B	10/1/04	92.6	91.8	0.806	70-130	25
Benzene	40333-01	13	40.0	40.0	48.7	46.6	ug/L	EPA 8260B	9/30/04	89.0	83.7	6.11	70-130	25
Toluene	40333-01	<0.50	40.0	40.0	39.1	37.4	ug/L	EPA 8260B	9/30/04	97.7	93.5	4.36	70-130	25
Tert-Butanol	40333-01	5.0	200	200	209	198	ug/L	EPA 8260B	9/30/04	102	96.5	5.51	70-130	25
Methyl-t-Butyl Ether	40333-01	36	40.0	40.0	98.0	94.6	ug/L	EPA 8260B	9/30/04	154	146	5.72	70-130	25

Approved By:  Jeff Dahl

KIFF ANALYTICAL, LLC

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

## QC Report : Laboratory Control Sample (LCS)

Project Name : DP793 ¼ly

Project Number : DP793

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/2/04	89.0	70-130
Toluene	40.0	ug/L	EPA 8260B	10/2/04	96.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/2/04	98.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/2/04	89.4	70-130
Benzene	40.0	ug/L	EPA 8260B	10/2/04	96.3	70-130
Toluene	40.0	ug/L	EPA 8260B	10/2/04	93.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/2/04	110	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/2/04	87.8	70-130
Benzene	40.0	ug/L	EPA 8260B	10/4/04	101	70-130
Toluene	40.0	ug/L	EPA 8260B	10/4/04	94.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/4/04	98.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/4/04	93.9	70-130
Benzene	40.0	ug/L	EPA 8260B	9/30/04	101	70-130
Toluene	40.0	ug/L	EPA 8260B	9/30/04	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/30/04	101	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/30/04	94.8	70-130
Benzene	40.0	ug/L	EPA 8260B	10/1/04	101	70-130

KIFF ANALYTICAL, LLC

Approved By:

Jeff Dahl

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

QC Report : Laboratory Control Sample (LCS)

Report Number : 40331

Date : 10/6/2004

Project Name : DP793 1/4ly

Project Number : DP793

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	10/1/04	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/1/04	94.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/1/04	107	70-130
Benzene	40.0	ug/L	EPA 8260B	10/1/04	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	10/1/04	96.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/1/04	95.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/1/04	94.6	70-130
Benzene	40.0	ug/L	EPA 8260B	9/30/04	104	70-130
Toluene	40.0	ug/L	EPA 8260B	9/30/04	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/30/04	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/30/04	109	70-130

KIFF ANALYTICAL, LLC

Approved By:

Jeff Dahl

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

Project Contact (Hardcopy or PDF To): Cathy Connors  
 Company/Address: 1786 E Premier St, Ukiah, CA 95716  
 Phone No.: 530 668 5300 FAX No.:  
 Project Number: DP 793 P.O. No.:  
 Project Name: DP 793 Ukiah  
 Project Address: Oakland

California EDF Report?  Yes  No

Recommended but not mandatory to complete this section:  
 Sampling Company Log Code: W G E W  
 Global ID: T-0-6-0-0-1-0-0-1-5-8  
 EDF Deliverable To (Email Address): wex@ced.net  
 Sampler Signature: [Signature]

## Chain-of-Custody Record and Analysis Request

Sample Designation	Sampling		40 ml VOA	Container				Preservative				Matrix		BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/MB015)	TPH as Diesel (MB015)	TPH as Motor Oil (MB015)	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 (7421/238.2) TOTAL (X) W.E.T. (X)	TAT	For Lab Use Only
	Date	Time		SLEEVE	HCI	HNO <sub>3</sub>	ICE	NONE	WATER	SOIL																		
MCU01	9-28-04	1407	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	12	K-01
RS 02		1510	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-02
RS 05		1015	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-03
RS 06		1525	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-04
RS 07		1145	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-05
RS 08		1235	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-06
RS 09		1100	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-07
RS 10		1212	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-08
RO 1		1645	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-09
RO 2		1605	3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		-10

Relinquished by: <u>[Signature]</u>	Date: <u>9-29-04</u>	Time: <u>10:00</u>	Received by: _____	Remarks:
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	
Relinquished by: _____	Date: <u>092904</u>	Time: <u>1008</u>	Received by Laboratory: <u>B.A. B</u> <u>KIFF Analytical</u>	
Bill to: <u>Bill WEGE</u>				

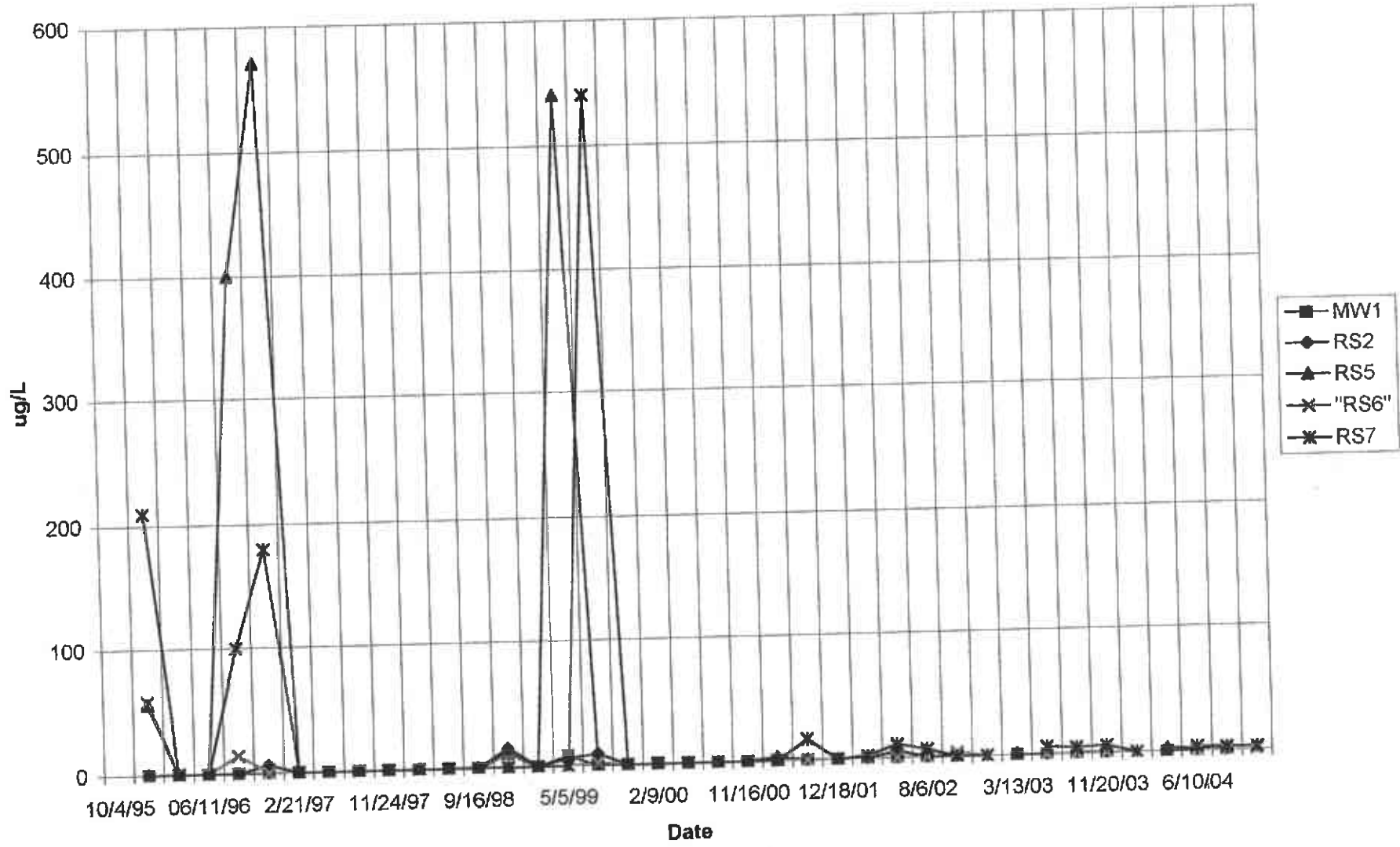


APPENDIX D.

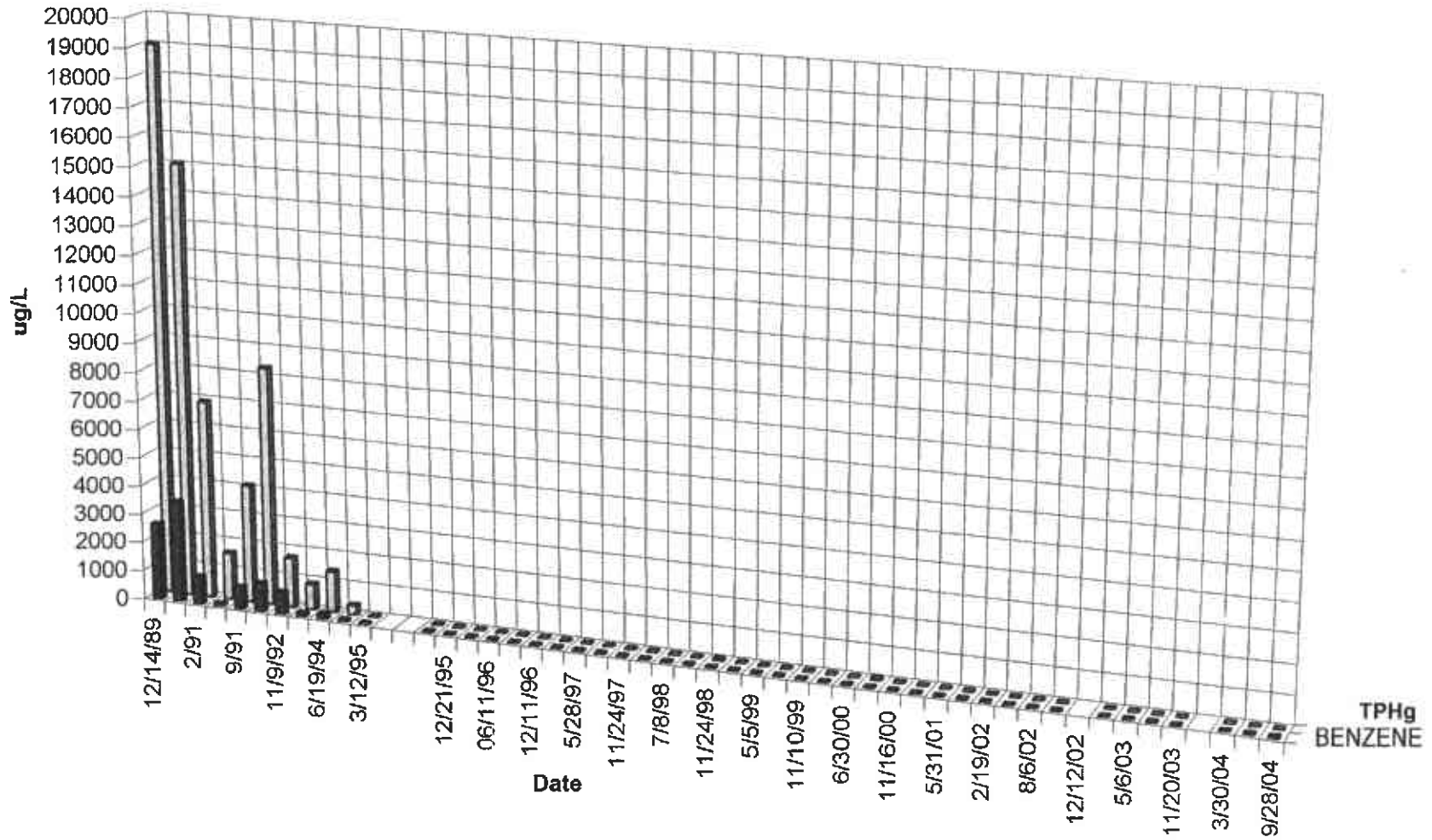
MtBE, TPHg AND BENZENE CHARTS



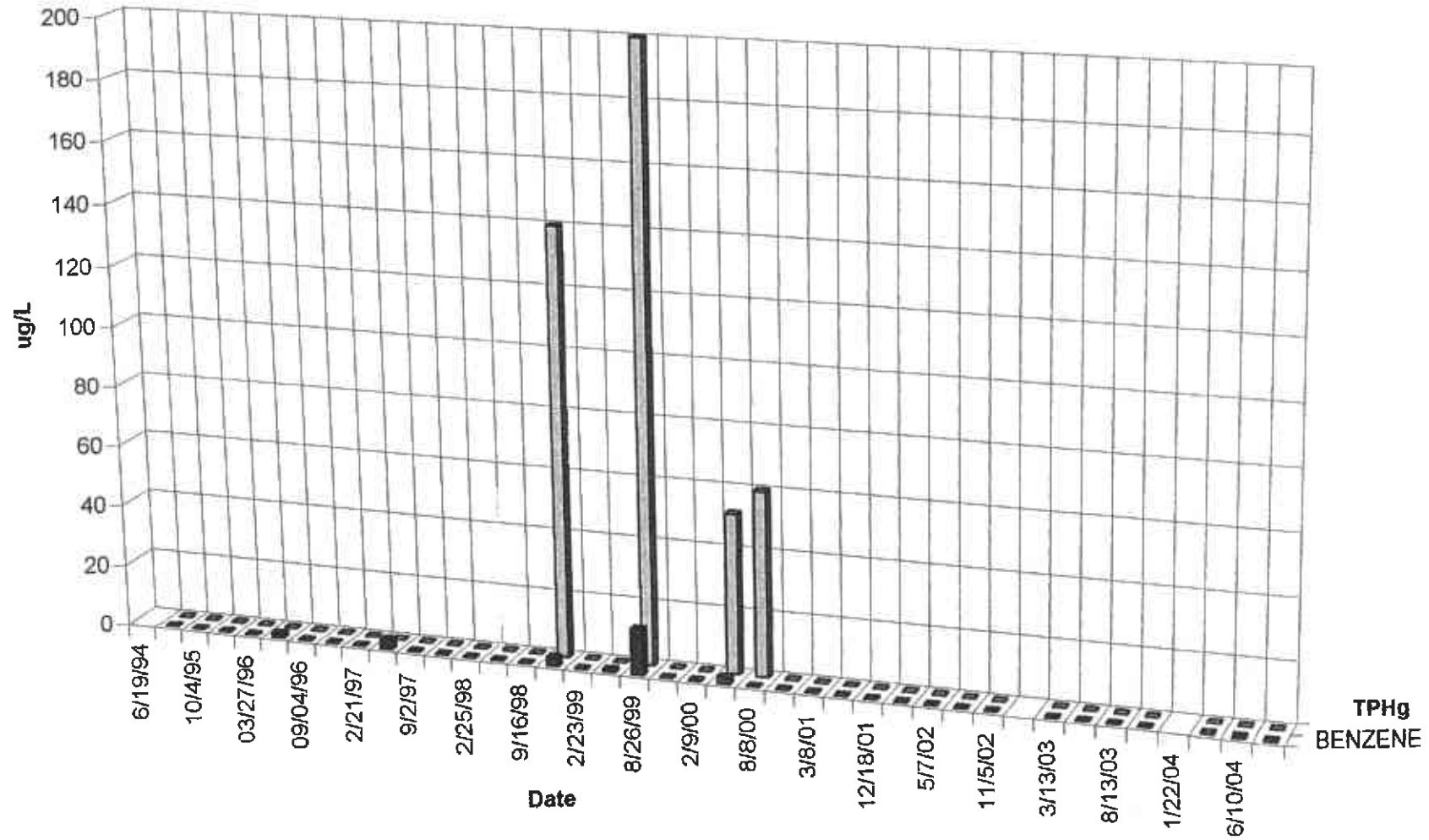
# MTBE IN WELLS



# RS-1/MW-1 TPHg

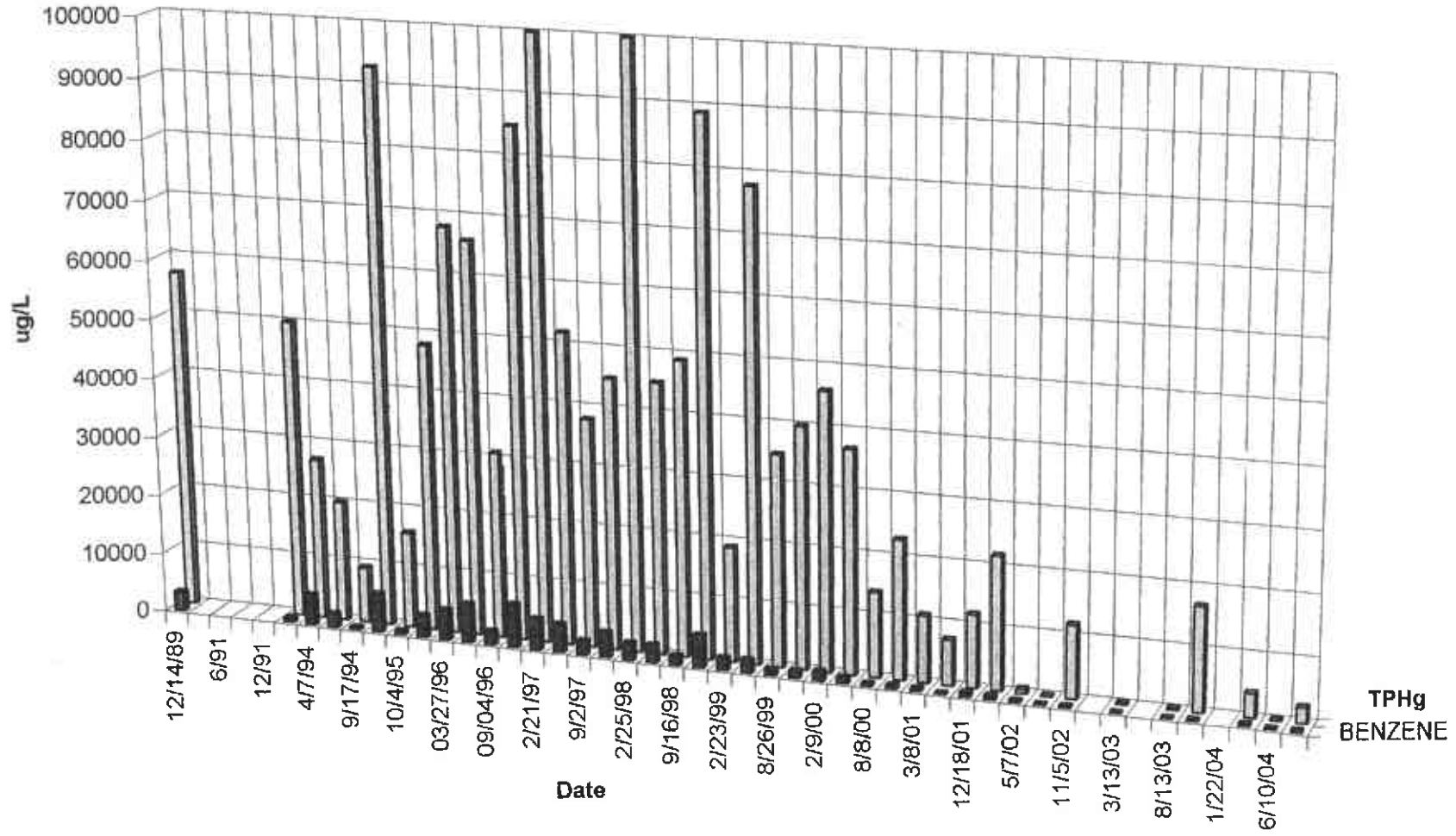


### RS-2 TPHg

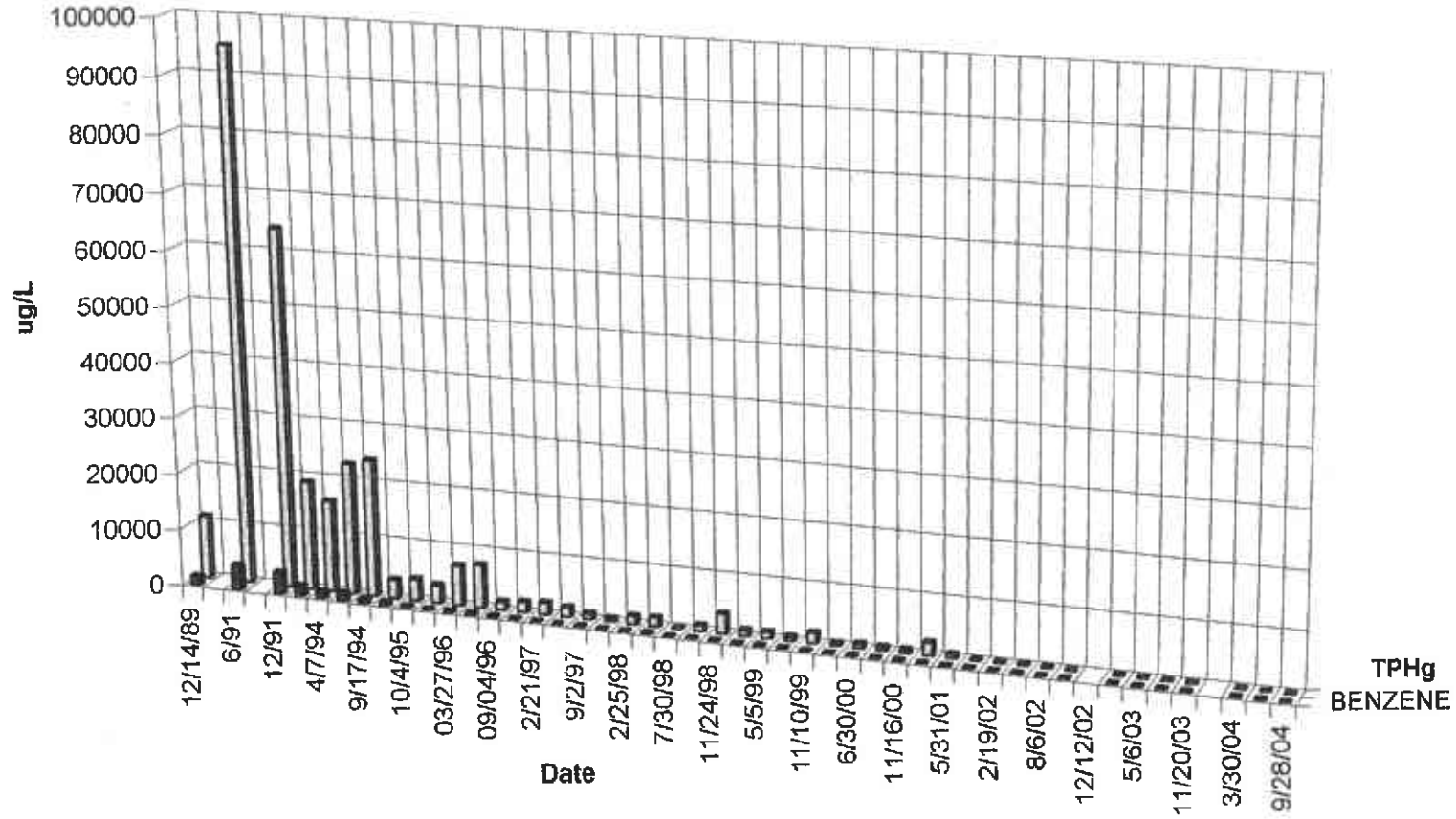


TPHg  
BENZENE

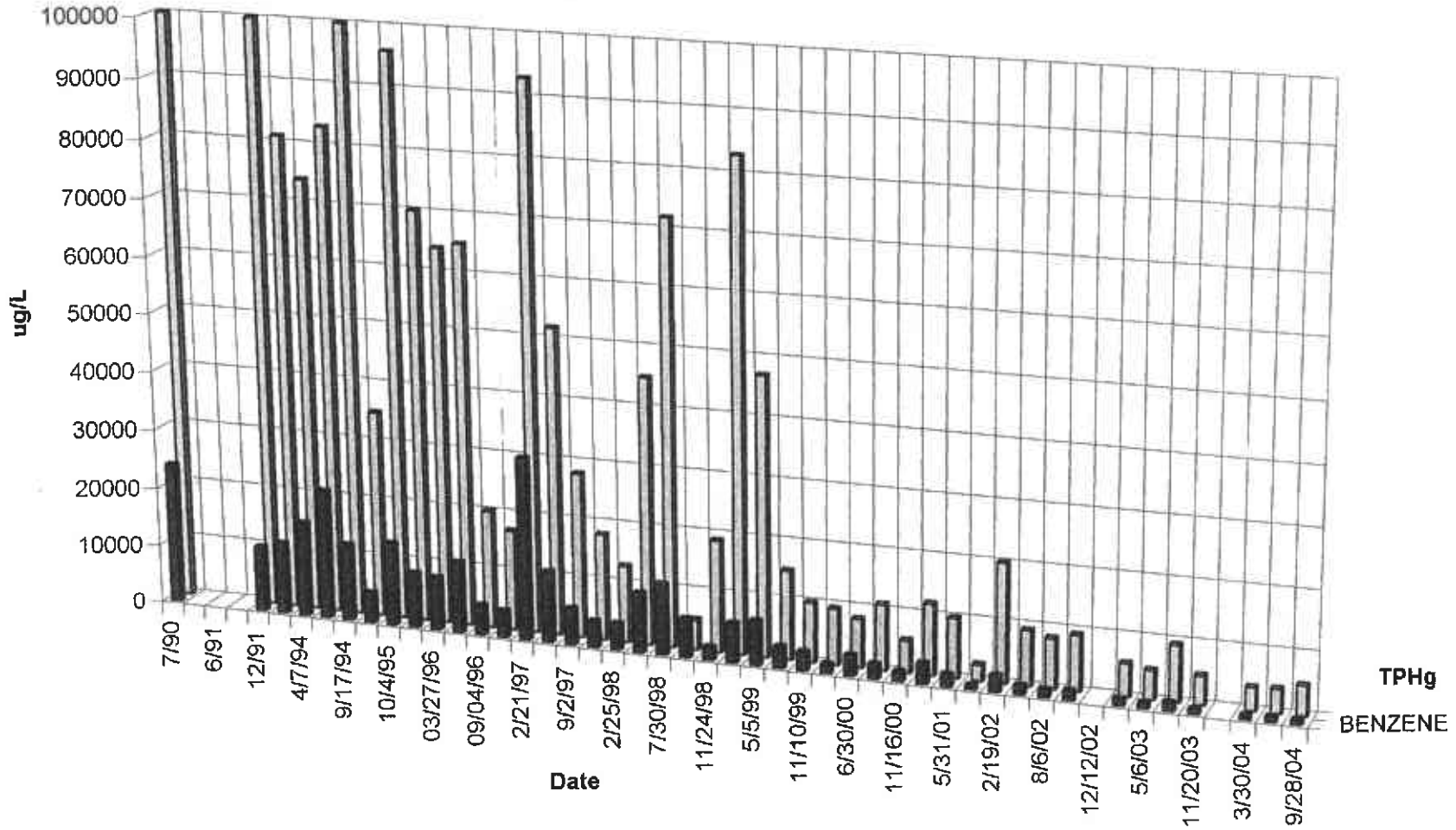
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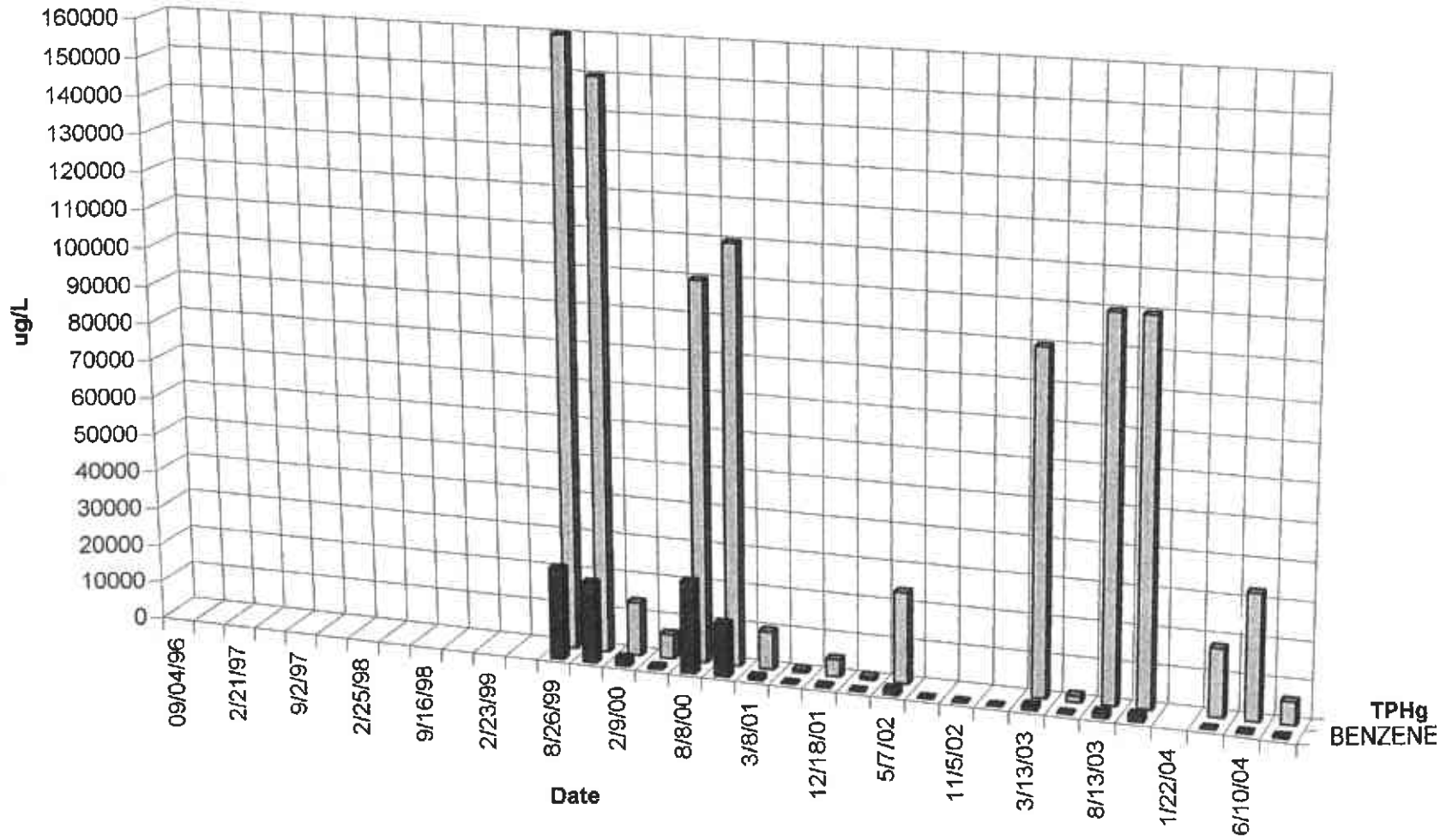
RS-6



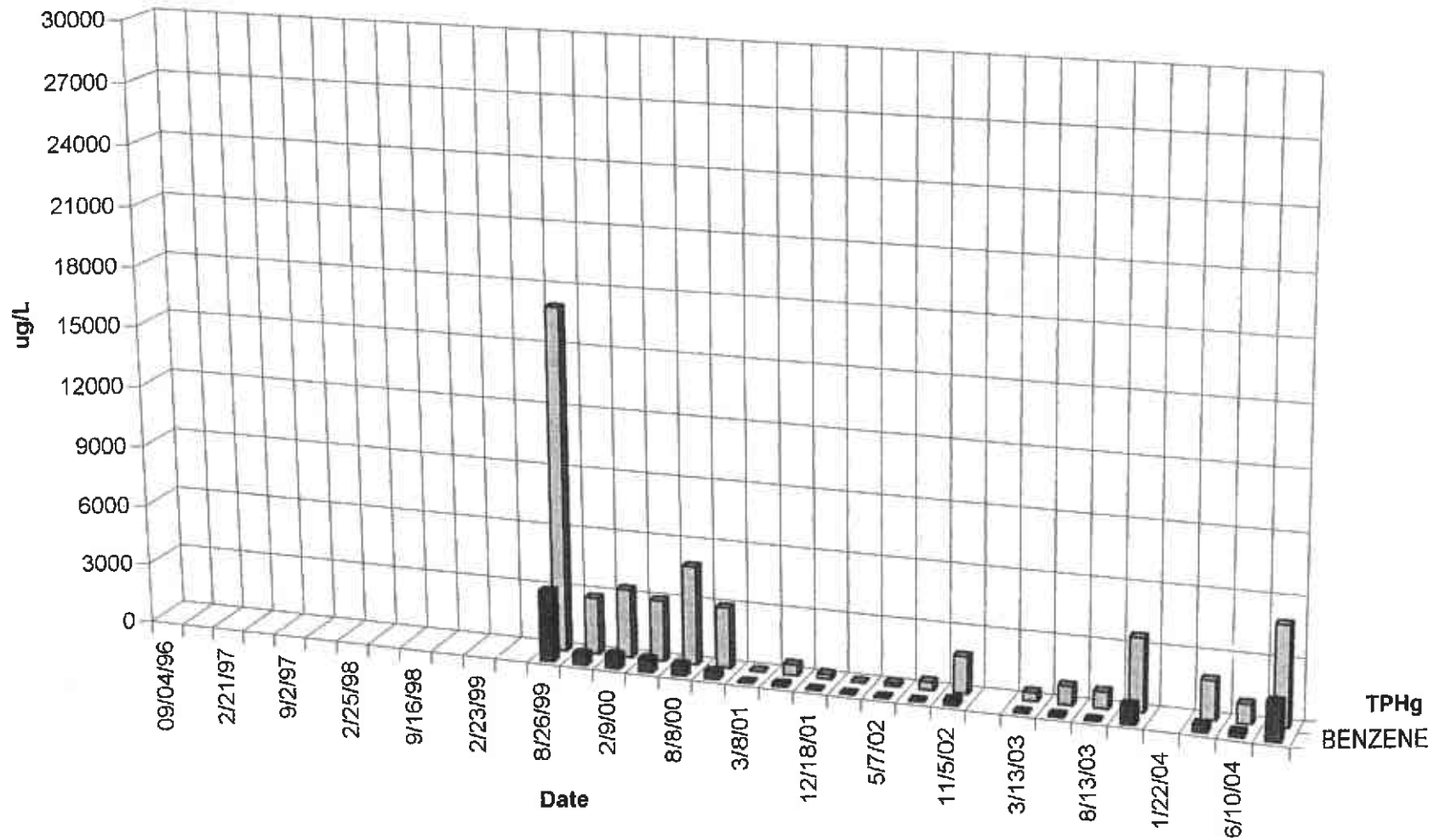
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RS-8

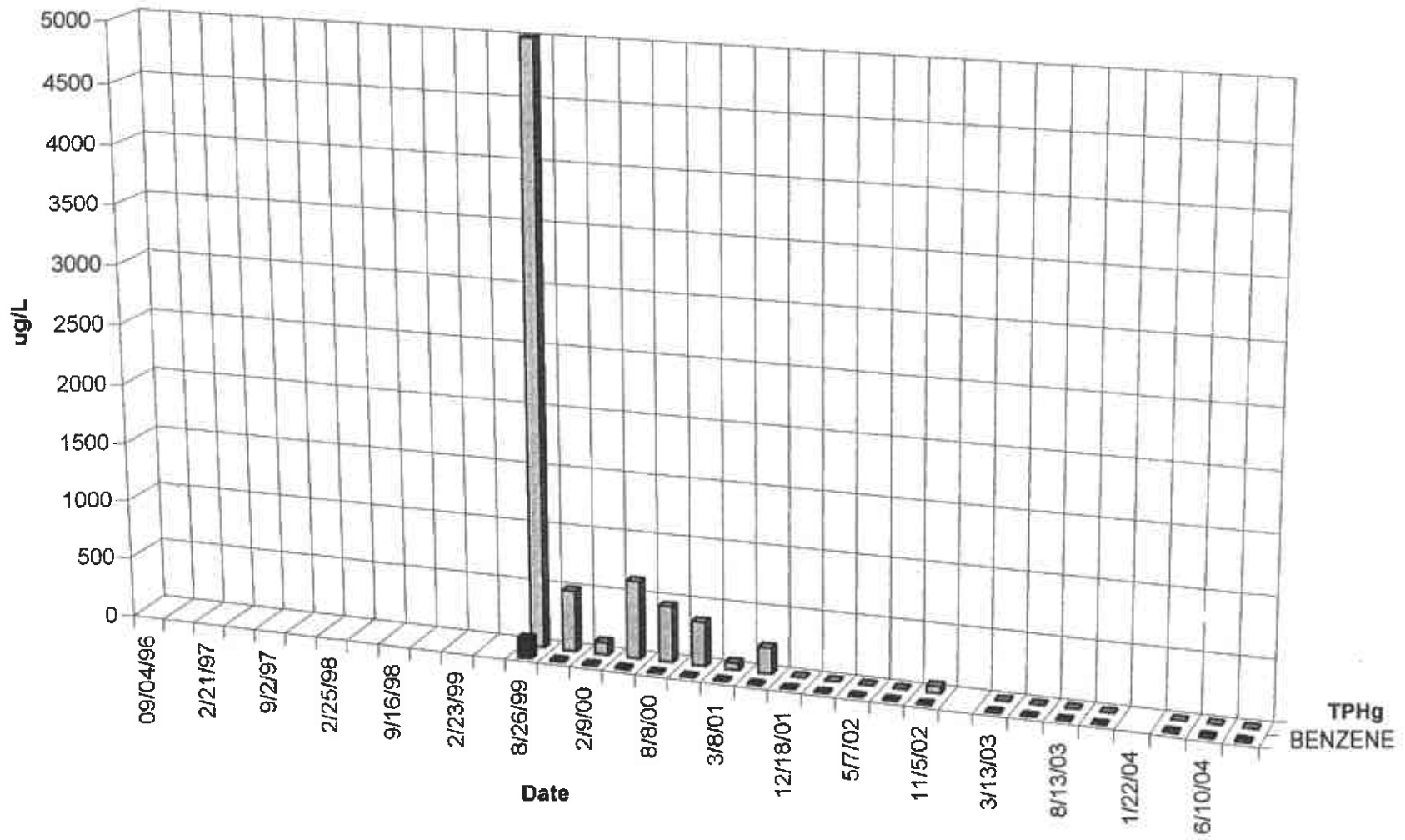


RS-9

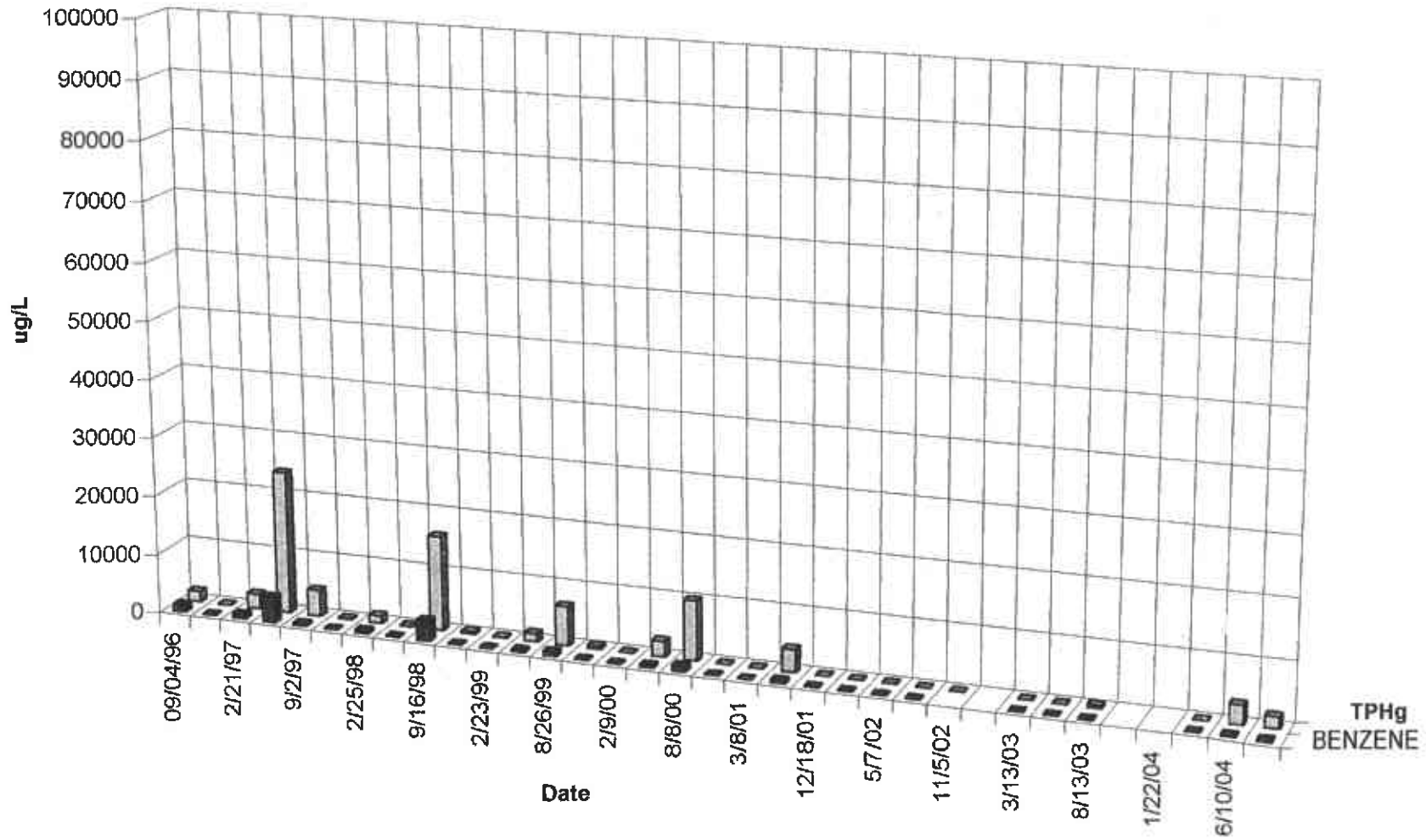




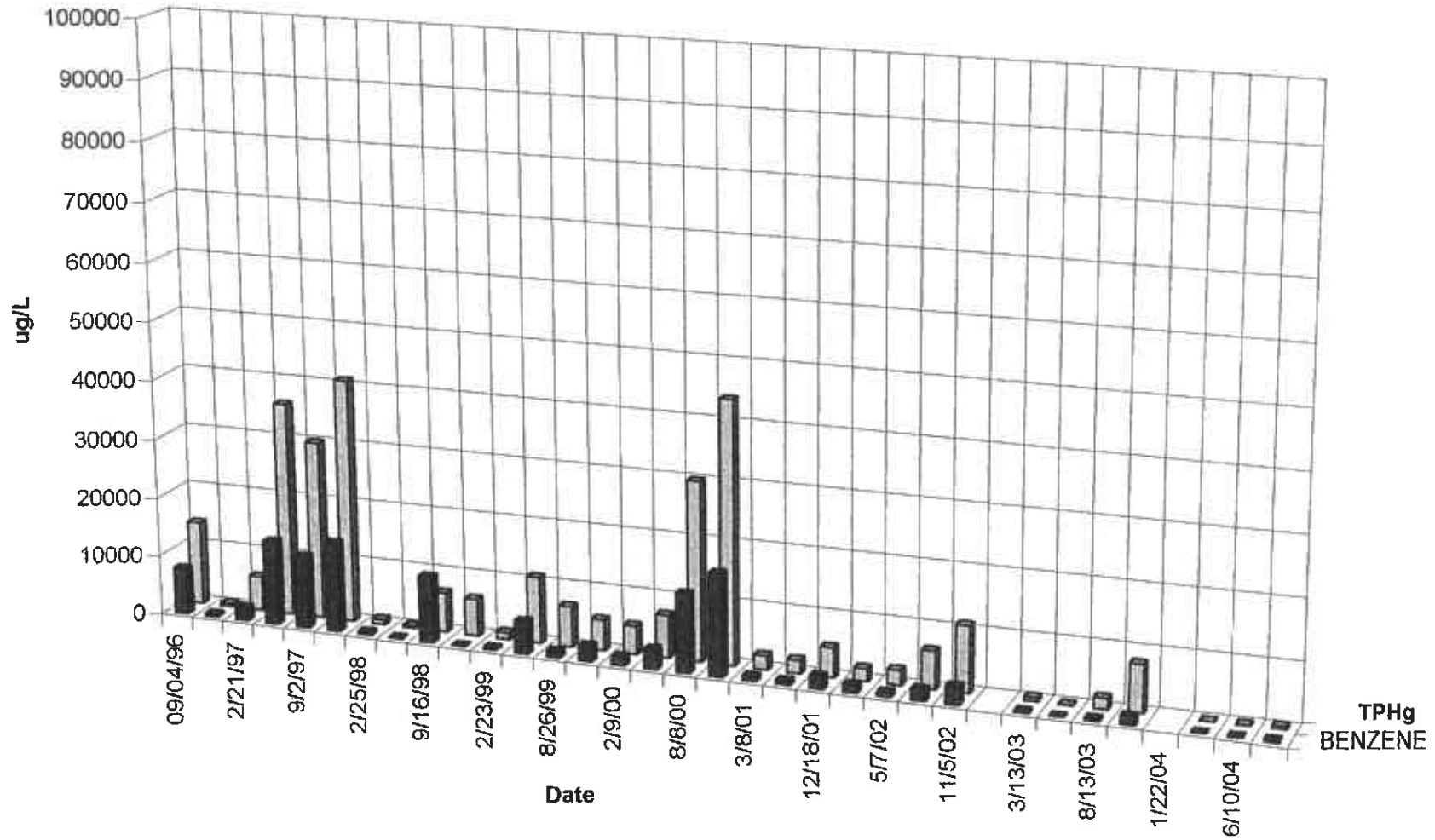
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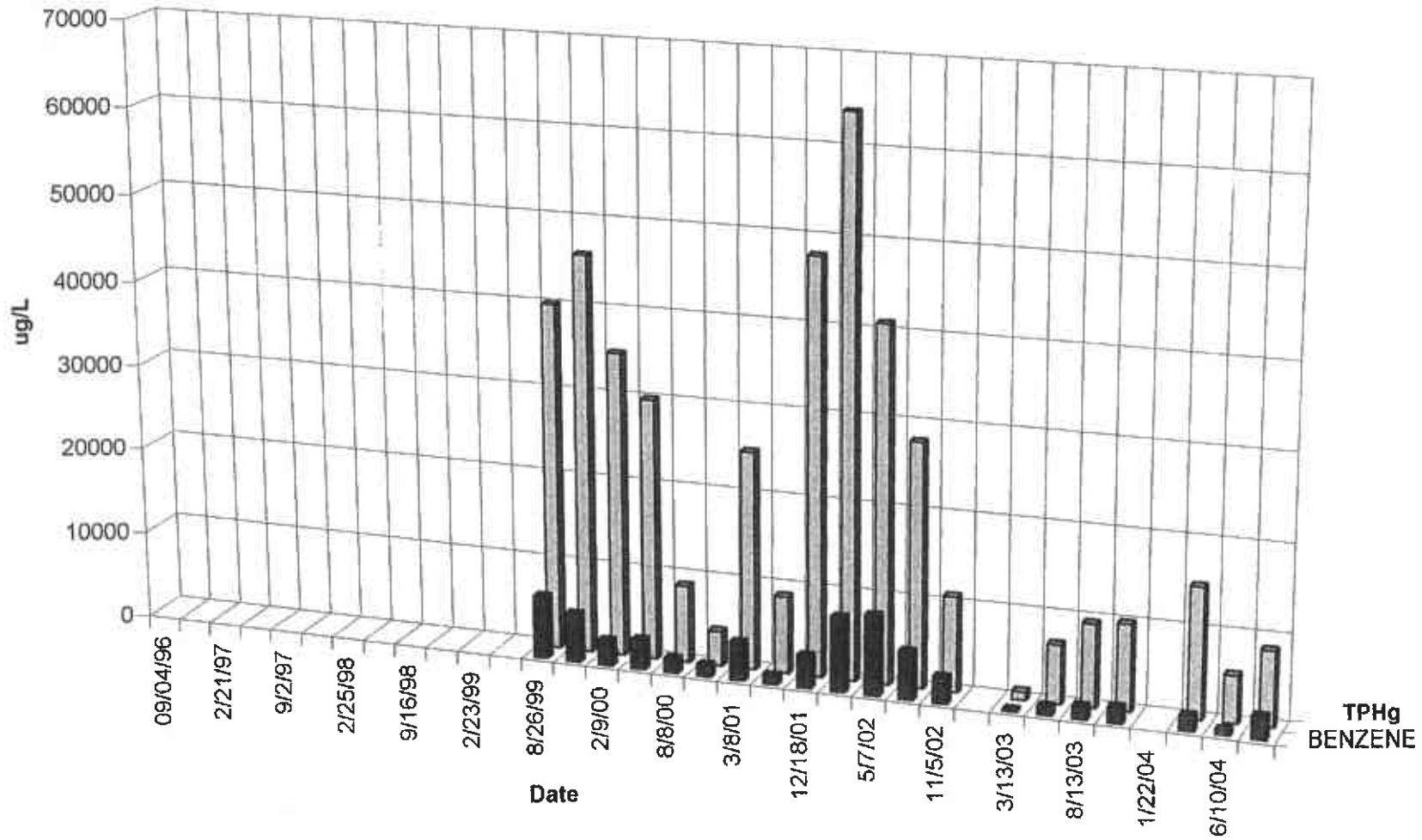
R-1



R-2



T-1



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

October 25, 2004

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

Dear Ms. Ong:

The enclosed table and certified laboratory report represents the sampling for wastewater Discharge Permit #5043550 1 for the period between June 30 and September 30, 2004. Electrical power to the site was lost on or before July 29, 2004. PG&F installed a new power panel on September 24, 2004. No pumping/sewer discharge occurred between July 19 through September 27, 2004. Sewer discharge was continued on September 28, 2004. At that time a sample of the water discharged to sewer was obtained and analyzed for TPHg, BTEX and MtBE using EPA method 8260B. On September 30, 2004 a site visit noted that water had collected in the spill containment holding the two carbon canisters. Inspection noted that the #1 carbon canister had a pinhole leak. The system was shut off, no water escaped the containment berm. On October 15, 2004 a new carbon was placed into the #2 carbon position, carbon two was placed into the carbon one position and the old carbon #1 was removed from the system. Pumping was resumed after the new carbon had be placed into the system.

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 or 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

10/25/04  
date

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

DATE PURGED	METER READING IN GALLONS RSS	METER READING IN GALLONS TRENCH	DEPTH TO TOP OF WATER IN FEET T1	GALLONS PURGED T1 and/or 1/4ly monitoring in GALLONS	ACCUMULATED GALLONS REMOVED FROM TRENCH & WELLS	Accumulated gallons removed from RS5 Gallons	TOTAL GALLONS REMOVED	INFLUENT CONCENTRATIONS EPA METHOD 8020 - 8260B						Sample Location
								TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	
								ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
10/3/03	1619477.8	1620763.0	2.32	1285	80276	446641.1	526917.2							
10/8/03	1623572.9	1623572.9		0	80276	449451.0	529727.1							
10/14/03	1626700.0	1626700.0		0	80276	452578.1	532854.2							
10/16/03	1627622.0	1627622.0		0	80276	453500.1	533776.2							
10/24/03	1631506.9	1631506.9		0	80276	457385.0	537681.1							
10/30/03	1634530.0	1634530.0		0	80276	460408.1	540684.2							
11/6/03	1637906.5	1637906.5		0	80276	463784.6	544060.7							
11/13/03	1641361.3	1641361.3		0	80276	467239.4	547515.5							
11/20/03	1644688.6	1645991.4		1303	81579	470566.7	552145.6	17000	150	720	240	1800	0.72	RS5
11/30/03	1649967.5	1649967.5		0	81579	474542.8	556121.7							
12/3/03	1649967.4	1649967.4		0	81579	474542.7	556121.6							
12/11/03	1649977.6	1649977.6		0	81579	474552.9	558131.8							
12/18/03	1654385.3	1655688.6		1303	82882	478960.8	561842.8							
12/23/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
12/30/03	1655682.0	1655682.0		0	82882	478954.0	561836.2							
1/22/04	1672236.9	1673412.0		1175	84057	495508.9	579566.2							
2/26/04	1696276.0	1696378.0		102	84159	518372.9	602532.2							
3/30/04	1722614.0	1723589.0		975	85134	544608.9	629743.2	15000	1600	660	610	2000	8.8	T1
4/8/04	1729975.5	1729975.5		0	85134	550995.4	636129.7	4000	370	59	13	380	2.6	RS5
4/14/04	1734113.2	1734113.2		0	85134	555133.1	640267.4							
4/22/04	1739978.0	1739978.0		0	85134	560997.9	646132.2							
4/29/04	1744687.9	1746094.5		1407	86541	565707.8	652248.7							
5/13/04	1754248.1	1754248.1		0	86541	573861.4	660402.3							
5/21/04	1759593.7	1759593.7		0	86541	579207.0	665747.9							
5/27/04	1762418.0	1764085.5		1648	88188	582031.3	670219.7							
6/3/04	1769445.0	1769445.0		0	88188	587410.8	675599.2	5500	570	2	240	130	2.7	T1
6/10/04	1774349.0	1774349.0		0	88188	592314.8	680503.2	120	7	0.88	1.3	4.3	1.3	RS5
6/17/04	1778979.0	1778979.0		0	88188	596944.8	685133.2							
6/25/04	1783576.7	1783576.7		0	88188	601542.5	689730.9							
6/30/04	1786027.0	1787786.1		1759	89948	603992.6	693940.3							
7/8/04	1787858.5	1787858.5		0	89948	604065.2	694012.7							
7/22/04	1791170.5	1791170.5		0	89948	607377.2	697324.7							
7/29/04	1791170.5	1791170.5		0	89948	607377.2	697324.7	no electrical power to site (no pumping).						
9/24/04	1791170.0	1791170.0		0	89948	607376.7	697324.2	new electrical power to site (restart pump RS5).						
9/28/04	1791275.2	1793186.5		1911	91859	607481.9	699340.7	2600	110	89	75	58	<0.5	RS5
9/30/04	1794233.0	1794233.0		0	91859	608528.4	700367.2	8700	2600	100	450	240	15	T1

ug/L micrograms per liter (parts per billion)  
mg/L milligrams per liter (parts per million)  
WESTERN GEO-ENGINEERS

< BELOW LABORATORY LOWER DETECTION LIMITS  
m3/Kg milligrams per kilogram (parts per million)  
TPHg TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE  
MTBE METHYL TERTIARY BUTYL ETHER

\* SAMPLED ON AUGUST 26, 1999  
T1 Receptor Trench Well  
RS5 Monitor Well RS5 (pumping well)

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

WASTEWATER SOURCE ID	DATE	METER	NEW	GALLONS	ACCUMULATIVE	AVERAGE	EPA METHOD 624		ETHYL-	XYLENES	7420
		READING IN GALLONS #35635668	METER IN GALLONS #47083426	DISCHARGED BETWEEN VISITS	GALLONS DISCHARGED	DISCHARGE PER MINUTE IN GALLONS	BENZENE ug/L	TOLUENE ug/L	BENZENE ug/L	ug/L	LEAD ug/L
			314110								
F1 (PSP No. 1)	10/30/02		1389884.7	25583	296039	0.37					
F1 (PSP No. 1)	11/5/02		1392931	3046	299086	0.35					
F1 (PSP No. 1)	12/12/02		1410216	17285	316371	0.32	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	1/9/03		1431653.1	21437	337808	0.53					
F1 (PSP No. 1)	2/19/03		1462658.4	31005	368813	0.53					
F1 (PSP No. 1)	3/13/03		1478624.6	15966	384779	0.50	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	4/15/03		1496745.6	18121	402900	0.38					
F1 (PSP No. 1)	5/6/03		1516728.7	19983	422883	0.66	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	6/5/03		1536327.1	19598	442482	0.45					
F1 (PSP No. 1)	7/3/03		1558031.2	21704	464186	0.54					
F1 (PSP No. 1)	8/13/03		1587475.1	29444	493630	0.50	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	9/12/03		1607619	20144	513774	0.47					
F1 (PSP No. 1)	10/16/03		1627622	20003	533777	0.41					
F1 (PSP No. 1)	11/20/03		1645991.4	18369	552146	0.36					
F1 (PSP No. 1)	12/18/03		1655688.6	9697	561843	0.24	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	1/22/04		1673412	17723	579567	0.35					
F1 (PSP No. 1)	2/26/04		1696378	22966	602533	0.46					
F1 (PSP No. 1)	3/30/04		1723589	27211	629744	0.57	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	4/29/04		1746094.5	22506	652249	0.52					
F1 (PSP No. 1)	5/27/04		1764065.5	17971	670220	0.45	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	6/30/04		1787786.1	23721	693941	0.48					
F1 (PSP No. 1)	7/29/04		1791170.5	3384	697325	0.08					
F1 (PSP No. 1)	8/31/04		1791170.5	0	697325	0.00					
F1 (PSP No. 1)	9/30/04		1794233	3063	700388	0.07	<0.5	<0.5	<0.5	<0.5	<0.5

< BELOW LABORATORY LOWER DETECTION LIMITS

ug/L micrograms per liter (parts per billion)

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

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

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





EAST BAY  
MUNICIPAL UTILITY DISTRICT  
**COMPLIANCE EVENT REMINDER NOTICE**

DAVID R. WILLIAMS  
DIRECTOR OF WASTEWATER

September 7, 2004

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

Dear Mr. Converse:

Re: Wastewater Discharge Permit No. 50435501

Desert Petroleum, Inc. Desert Petroleum, Inc. is required to submit periodic compliance reports. This is a reminder that a Self-Monitoring Report for the period July 1, 2004 - September 30, 2004 is due by October 31, 2004.

The Self-Monitoring Report must contain the proper certification statement and shall be signed by an authorized person in accordance with Section B of the permit Standard Terms And Conditions. This report must be completed and mailed to the Environmental Services Division by the due date. A violation follow up fee may be assessed for late, incomplete or failure to submit this report.

Sincerely,

MOLLY ONG  
Wastewater Control Representative

MKO:mko



Report Number : 40330

Date : 10/6/2004

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

Subject : 1 Water Sample  
Project Name : DP793- Sewer Discharge  
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,

A handwritten signature in black ink, appearing to read "Jeff Dahl", is written over a printed name.

Jeff Dahl



Report Number : 40330

Date : 10/6/2004

Project Name : DP793- Sewer Discharge

Project Number : DP793

Sample : Sewer

Matrix : Water

Lab Number : 40330-01

Sample Date :9/28/2004

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
TPH as Gasoline	50	50	ug/L	EPA 8260B	9/30/2004
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	9/30/2004
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	9/30/2004

Approved By: \_\_\_\_\_

Jeff Dahl

Report Number : 40330

Date : 10/6/2004

**QC Report : Method Blank Data**

Project Name : **DP793- Sewer Discharge**

Project Number : **DP793**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/30/2004
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/30/2004
Toluene - d8 (Surr)	98.0		%	EPA 8260B	9/30/2004
4-Bromofluorobenzene (Surr)	106		%	EPA 8260B	9/30/2004

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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Approved By: Jeff Dahl

KIFF ANALYTICAL, LLC

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

Report Number : 40330

Date : 10/6/2004

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : DP793- Sewer Discharge

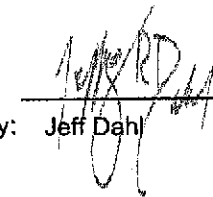
Project Number : DP793

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	40330-01	<0.50	40.0	40.0	37.4	37.2	ug/L	EPA 8260B	9/30/04	93.6	93.1	0.460	70-130	25
Toluene	40330-01	<0.50	40.0	40.0	37.6	37.3	ug/L	EPA 8260B	9/30/04	94.1	93.2	0.979	70-130	25
Tert-Butanol	40330-01	8.8	200	200	193	198	ug/L	EPA 8260B	9/30/04	92.0	94.5	2.67	70-130	25
Methyl-t-Butyl Ether	40330-01	<0.50	40.0	40.0	37.6	37.7	ug/L	EPA 8260B	9/30/04	94.0	94.2	0.230	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By: Jeff Dahl



Report Number : 40330

Date : 10/6/2004

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **DP793- Sewer Discharge**

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	9/30/04	99.8	70-130
Toluene	40.0	ug/L	EPA 8260B	9/30/04	98.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/30/04	95.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/30/04	102	70-130

KIFF ANALYTICAL, LLC

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

Approved By:

  
Jeff Dahl



10/15/64

13:30 - 15:30

17942438 meter

change out number

1 carbon ~~reflex~~

move #2 to H position

add new carbon, restarted pump only pumped for  
short span unplugged and restarted  
only pumped for short period



LEAD TECH: \_\_\_\_\_ SERVICE TECH: \_\_\_\_\_

 BILL TO: West Coast Properties WEGE SPECIAL INST.: \_\_\_\_\_

 JOB SITE: Desert Palms Delaware 1 AC/2000 w/ AC/MS-C  
4035 Park Blvd. Pickup 2 quantity carbon drums  
Subland, CA 94602

 SITE CONTACT: Roy Butler Carbon Prep

 PHONE#: 530 468-5300

CELL PHONE#: \_\_\_\_\_

 START TIME: 0530  
 LOADING 01250 TO 1315  
 SCH LV YARD  
 TIME 1245 OUT 1315  
 ARRIVAL 1400  
 DEPART \_\_\_\_\_  
 END TIME \_\_\_\_\_

 PROCEED TO OTHER JOB  
 YES  NO  
 SITE NAME \_\_\_\_\_  
 CITY \_\_\_\_\_  
 JOB# \_\_\_\_\_

 SERVICE  
 PICK-UP  
 DELIVERY  
 REWORK  
 WARRANTY  
 SAMPLE

**FILTERS SERVICED**  
 QTY \_\_\_\_\_ AQUA SCRUB 1000 2000  
 QTY \_\_\_\_\_ VENT SCRUB 1000 2000  
 QTY \_\_\_\_\_ P.V. 1000 2000  
 QTY \_\_\_\_\_ OTHER: \_\_\_\_\_

**CARBON USED**  
 QTY \_\_\_\_\_ ACRS/AC830: \_\_\_\_\_  
 QTY \_\_\_\_\_ VCRS/VC48C: \_\_\_\_\_  
 QTY \_\_\_\_\_ AC1230C: \_\_\_\_\_  
 QTY 200 OTHER: AC/MS-C 3238 lot 40
**CONTAINERS USED:**  
 QTY \_\_\_\_\_ DRUMS  
 QTY \_\_\_\_\_ TOTE BINS  
 QTY \_\_\_\_\_ ROLL-OFFS  
 QTY \_\_\_\_\_ OTHER: \_\_\_\_\_

**SHIPPING INFORMATION:**  
 PROFILE NO.: 1010257AC 10/16/04  
 CONTAINERS LEFT ON SITE:  YES  NO  
 MANIFEST DOC#: \_\_\_\_\_

**SAMPLE ANALYTICAL:**  
 EPA 8015-TPH VM/XM TCLP  
 EPA 8010/8020 EPA8260 11RCRA  
 OTHER: \_\_\_\_\_

**EQUIPMENT RENTED:**  
 RENTAL COMPANY: \_\_\_\_\_  
 RELEASE NO.: \_\_\_\_\_  
 PHONE #: \_\_\_\_\_

 SERVICE TECH COMMENTS: 1) Arrived on site Client Here. 2) Unlabeled Drum. 3) ~~Unlabeled Drum~~ 4) ~~Second drum~~ 5) ~~Drum~~  
3) unable to load spent - Drums Rashed out concerned About Drum Rupture En transport. Discussed option w/ client. Departed

CUSTOMER COMMENTS: \_\_\_\_\_

 CUSTOMER SIGNATURE: Roy Butler DATE: \_\_\_\_\_