SECOND QUARTER 2002
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

June 12, 2002

BY

-WEGE-
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Mr. Bill Thompson
Desert Petroleum
P.O. Box 1601
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(805) 644-6784 FAX (805) 654-0720

June 12, 2002

Dear Mr. Thompson:

The following report documents the second quarter 2002 sampling at DP793, 4035 Park Blvd., Oakland, California.

1.0 SITE LOCATION AND NUMBERS

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

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

2.0 LOCAL GEOLOGY

2.1 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.

2.2 Stratigraphy

2.1.1 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, see Figure 7.

2.1.2 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, see Figure 7.

2.1.3 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 caly 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, see Figure 6.

3.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES

Groundwater samples were collected on May 7, 2002. Samples were analyzed for Total Petroluem Hydrocabons as gasoline, Benzene, Toluene, Ethylbenzene, Xylenes and Methyl tert-Butal Alcohol using EPA method 8260B, see Table 1. Figure 3 shows the positions of the groundwater monitoring wells, the receptor trench and previous sample locations.

3.1 Depth to Water Measurements

On May 7, 2002 depth to water was measured at each well using a product/water interface probe. Measurements are referenced to the surveyed elevation at the top of casing at each well. Table 1 shows the elevation of groundwater with respect to mean sea level for all wells through May 7, 2002.

4.0 RESULTS OF QUARTERLY GROUNDWATER MONITORING

4.1 Groundwater Gradient and Flow Direction

Figure 4 shows the groundwater elevation gradients and flow direction that were derived from the depth to water measurements of the monitor wells on May 7, 2002, prior to purging the wells for sampling, see Table 1 and Appendix A. On February 15, 2001 submersible pump was placed into onsite well RS-5 to try and capture contaminated groundwater beneath the site and adjoining properties. The pump rate was set at approximately 2 gpm. The pump was removed from RS-5 on July 19, 2001. **After evaluation of the effects the pumping had on remediating the site the pump was placed back into RS-5 on March 21, 2002.** As shown on groundwater elevation chart generated for each well, pumping from RS5 lowered the water levels in RS-8 and RS-10, see

Appendix B. Table 1 shows the groundwater elevations for the wells during the assessment of this site.

The current flow direction is northwest to west. The hydraulic gradient averages 0.09 feet/linear foot downgradient of RS-8 to the receptor trench well T1, see Figure 4. The present flow direction and hydraulic gradient are consistent with previous determinations by WEGE. Also evident on Figure 4 is the cone of influence generating at RS5 as pumping from this well has resumed.

4.2 Results of Certified Analysis of Groundwater Samples

The results of the certified analyses of groundwater samples collected on May 7, 2002 are shown in Table 1.

TPH-G concentrations in water samples from the eight monitor wells, the receptor trench well and three recovery wells ranged from a maximum of 41,000 ug/l at trench well T1, to below laboratory lower detection limits of 50 ug/L in wells MW1, RS2, RS10 and R3 respectively.

Benzene concentrations ranged from a maximum of 9200 ug/L in T1 to below the laboratory lower detection limits (0.5 ug/L) at wells MW1, RS2, RS6, RS10 and R3, see Appendix C - Laboratory Report.

Analysis results for Oxygenant Methyl-t-Butyl Ether (MTBE) was below the laboratory lower detection limit in wells MW1, RS2, RS6, RS8, RS10, R1, R2, and R3. **The wells located within or near Brighton Street, RS7, RS9 and the trench well T1, contained 6.6, 0.67 and 62 ug/L MTBE respectively.** This indicates that the MtBE source(s) maybe the cars parked along Brighton Street. During the September 16, 1998 all Fuel Oxygenants; MTBE, Di-isopropyl Ether (DIPE), tertiary Butyl Alcohol (TBA), Ethyl-t-Butyl Ether (ETBE) and t-Amyl Methyl Ether (TAME) were confirmed with EPA Method 8260. These analytes were below laboratory lower detection limits.

Figure 5 (May 7, 2002) shows the lateral distribution of the hydrocarbon plume with benzene distinction in groundwater during pumping from RS-5.

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, RS6, RS7, RS8, RS9, and T1 ranging from a low of 53 ug/L at R1 to a high of 41000 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 ug/L. Benzene was detected in wells R1, R2, RS5, RS7, RS8, RS9 and T1 ranging from a low of 3.3 ug/L at R1 to a high of 9200 ug/L at T1.

Toluene

Toluene has a LLDL of 0.5 ug/L. The recommended CPHG for toluene is 150 ug/L. Toluene was detected in wells R2, RS5, RS7, RS8 and T1, ranging from a low of 7.5 ug/L at well R2 to a high of 1800 ug/L at well RS8.

Ethylbenzene

Ethylbenzene has a LLDL of 0.5 ug/L. The recommended CPHG for Ethylbenzene is 300 ug/L. Ethylbenzene was detected in wells R1, R2, RS5, RS7, RS8, RS9 and T1, ranging from a low of 1.0 ug/L at well R1 to a high of 2000 ug.L at well T1.

Xylenes

Xylenes have a LLDL of 0.5 ug/L. The recommended CPHG for Xylenes is 1800 ug/L. Xylenes were detected in wells R2, RS5, RS7, RS8 and T1, ranging from a low of 26 ug/L at well R2 to a high of 6200 ug/L at well T1.

MtBE

MtBE has a LLDL of 0.5 ug/L. The recommended PHG for MTBE is 13 ug/L. MtBE was detected in wells RS5, RS7, RS9 and T1, ranging from a low of 0.67 ug/L at well RS9 to a high of 62 ug/L at well T1, see Table 1 and Appendix C - Laboratory Report.

Appendix D contains charts developed for wells MW1, RS2, RS5, RS6, RS7, RS8, RS9, RS10 and trench well T1 showing TPHg & Benzene concentration with time, with the exception of RS8 and T1 all wells display a reduction in concentrations with time for both TPHg and Benzene through May 7, 2002 sampling.

5.0 WEEKLY PURGING OF RECEPTOR TRENCH

Commencing on May 4, 2000, weekly pumping of the receptor trench has been performed for approximately 4 hours per week, see Table 3. During purging the depth to water within the trench is lowered an average of one feet. Immediately after purging ceases, the water level in the trench recovers to its original depth. Weekly purging of the receptor trench was suspended on July 19, 2001 at the request of Desert Petroleum. 62,511 gallons of contaminated groundwater had been removed from the trench, processed through two, in series, activated carbon water scrubs and discharged to the sanitary sewer, see Table 3.

6.0 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 June 6,2002 151,507 gallons of groundwater have been pumped from RS5 and treated through two in series water carbon units prior to being discharge to sanitary sewer, see Table 3.

The pumping from RS-5 lowered the groundwater at this well by at least 15 feet, when compared to the previous water measurements. This created a cone of influence out to offsite wells RS-8 and RS-10, see Chart - Appendix B. Recirculating the pumped groundwater, before it leaves the well (RS-5) has increased the dissolved oxygen in RS-5 from 0.7 mg/L (August 26, 1999) to 3.1 mg/L (March 8, 2001). This should aid in the biodegradation of the hydrocarbon plume, see Table2.

7.0 BIODEGRADATION OF HYDROCARBONS

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

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

Table 2 represents the results of electron acceptor field analysis obtained December 18, 2001 compared to results obtained August 26, 1999.

7.1 Dissolved Oxygen

Readings for dissolved oxygen obtained on August 26, 1999, prior to pumping the receptor trench and RS5, indicated two areas of oxygen depletion (<1 mg/L), the entire north half of the site (4035 Park Avenue) at wells RS2, RS5, RS6, R1 and R2 and the area excavated for the receptor trench along the eastern curb of Brighton Avenue, well RS-7 and T1. Readings obtained during the December 18, 2001 monitoring round show that dissolved oxygen has increased substantially and even exceeds 5 mg/L in the over-excavated area on site. The lowest Dissolved Oxygen level encountered is associated with well RS5 at 1.4 mg/L, compared to 0.7 mg/L at RS5 in August 1999. All other dissolved oxygen measurements were at 2.5 mg/L or greater, see Table 2.

7.2 Sulfate

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

7.3 Nitrate

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

7.4 Ferrous Iron

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

8.0 SUMMARY

Since the installation and weekly purging of the receptor trench (T1) the TPHg concentrations in down gradient wells RS-7 and RS-9 have decreased, 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, R3, RS-5, RS-8 and RS-10.

The lowest hydrocarbon concentrations were observed while the weekly pumping of the trench well and the continuous pumping of RS5 was occurring, May 31, 2001. The most recent sampling, May 7, 2002 shows a continue decrease in hydrocarbons upgradient, at the site, but an increase in hydrocarbon concentrations associated with the receptor trench at Brighton Avenue excavation well T1 and well RS8. The most down gradient well, RS9 contains low levels of gasoline range hydrocarbons; 130 ug/L TPHg, 7.9 ug/L Benzene, 1.2 ug/L Ethylbenzene, and 0.67 ug/L MtBE, indicating a barrier for lateral migration along Brighton Avenue.

Previous sampling, September 2, 1999, showed that aerobic bacteria (hydrocarbon degraders) exist in the groundwater associated with the hydrocarbon plume. A workplan to augment the groundwater with oxygen (air sparging) and nutrients (phosphate and ammonium sulfate) dated August 29, 2000 was presented with the August 29, 2000, Third Quarter 2000 report. This workplan along with the May 31, 2001 conditions were discussed during a meeting at Alameda County Health that involved Mr. Thompson, Desert Petroleum, Mr. Seery, Alameda County Health

and Mr. Converse, Western Geo-Engineers on November 13, 2001. The meeting concluded that nutrient augmentation was not necessary at this time, but enhanced dissolved oxygen was needed. Due to neighborhood concerns, i.e. residential homes and apartments, air sparging and/or using a mechanical delivery device would create to much noise and a more passive oxygen delivery system was warranted, i.e. hydrogen peroxide or Oxygen Release Compound (ORC). An amended workplan was presented in Appendix G of the 4th Quarater 2001 report, dated January 7, 2002 and suggested that ORC would be the most beneficial means of enhancing dissolved oxygen in the groundwater plume. Western Geo-Engineers then requested Regenisis Inc. to perform a basic model using ORC to determine how to apply and the amount needed. The Regenisis model indicated that a one-time application (would last approximately one year) of approximately 9,690 pounds of ORC would be needed, at a cost of $77,520.00 for materials, which does not include installation costs. Upon receipt of the Regenisis model, WEGE projected how much hydrogen peroxide would be necessary to increase the dissolved oxygen in the plume from 2 mg/L to 8 mg/L. This simple model indicated that 18 gallons of 35% solution hydrogen peroxide would be necessary per application, at a cost of $1,160.00 per monthly application or $13,920.00 for one year.

Further communications from Mr. Scott Seery with Mr. Converse occurred during the week of February 25 - March 1, 2002. Mr. Seery suggested another meeting to discuss remediation options prior to approving the amended workplan presented with the January 7, 2002 report.

9.0 LIMITATIONS

This report is based upon the following:

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

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

Sincerely,

George Converse
Geologist

Jack E. Napper
Ca. Reg. Geologist #3037

cc: Mr. Scott O. Seery, Alameda County Health (510) 567-6783
Mr. Leroy Griffin, Oakland Fire Dept.

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

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

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

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

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

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

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

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

ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(CALIFORNIA PUBLIC HEALTH GOAL)						(1)	(150)	(300)	(1800)	(13)	
RS-7	12/14/89	195.99									
RS-7	7/90	195.99			5600000	24000	210000	50000	740000		
RS-7	2/91	195.99	FLOATING PRODUCT								
RS-7	6/91	195.99	FLOATING PRODUCT								
RS-7	9/91	195.99	FLOATING PRODUCT								
RS-7	12/91	195.99			270000	11000	22000	2000	13000		
RS-7	11/9/92	195.99	4.62	191.37	81000	12000	16000	1900	13000		
RS-7	4/7/94	195.99	4.03	191.96	74000	16000	16000	1400	8500		
RS-7	6/19/94	195.99	4.07	191.92	83000	22000	19000	1500	9500		
RS-7	9/17/94	195.99	4.05	191.94	270000	13000	15000	2100	1100		
RS-7	3/12/95	195.99	3.72	192.27	35000	5100	560	6300	3600		
RS-7	10/4/95	195.99	4.03	191.96	96000	14000	14000	1300	7000		
RS-7	12/21/95	195.99	3.95	192.04	70000	9300	12000	860	5600	210	
RS-7	03/27/96	195.99	3.80	192.19	64000	8900	14000	1100	8300	< 3000	
RS-7	06/11/96	195.99	3.79	192.2	65000	12000	17000	1600	9700	<5000	
RS-7	09/04/96	195.99	3.99	192	20000	4900	2100	670	4400	100	
RS-7	12/11/96	195.99	3.78	192.21	17000	4400	7500	570	4600	180	
RS-7	2/21/97	195.99	3.82	192.17	93000	31000	47000	3800	23000	<0.5	*
RS-7	5/28/97	195.99	3.82	192.17	52000	12000	8200	2000	11000	<0.5	*
RS-7	9/2/97	195.99	3.96	192.03	28000	6100	2800	950	3800	<50	
RS-7	11/24/97	195.99	3.76	192.23	18000	4300	5900	600	2900	<0.5	*
RS-7	2/25/98	195.99	3.70	192.29	13000	4300	7100	1100	5800	<0.5	*
RS-7**	7/8/98	195.99	3.76	192.23	45000	10000	3400	2000	8000	<10	*
RS-7	7/30/98	195.99			72000	12000	2100	2000	9100		
RS-7	9/16/98	195.99	3.83	192.16	5000	6500	160	<2.5	500	<5	*
RS-7	11/24/98	195.99	3.77	192.22	19000	2100	1100	500	2100	<0.5	
RS-7	2/23/99	195.99	3.70	192.29	83000	6500	9900	1200	7000	<10	
RS-7	5/5/99	195.99	3.88	192.11	47000	7400	4800	1300	7400	540	
RS-7***	8/26/99	195.99	4.16	191.83	15000	3400	91	950	970	<5	
RS-7	11/10/99	195.99	4.12	191.87	10000	2900	170	630	1200	<0.5	
RS-7	2/9/00	195.99	3.98	192.01	9400	1400	120	480	600	<0.5	
RS-7	6/30/00	195.99	4.04	191.95	8200	3300	190	430	540	<0.5	
RS-7	8/8/00	195.99	4.06	191.93	11000	2300	150	430	520	<0.5	
RS-7	11/16/00	195.99	4.04	191.95	5400	1500	40	240	200	<0.5	
RS-7	3/8/01	195.99	3.94	192.05	12000	3300	260	480	850	17	****
RS-7	5/31/01	195.99	4.01	191.98	10000	1900	120	320	620	<100	****
RS-7	12/18/01	195.99	4.81	191.18	2700	450	21	86	120	2.3	****
RS-7	2/19/02	195.99	3.91	192.08	20000	2600	360	570	1900	11	****
RS-7	5/7/02	195.99	3.97	192.02	9200	1400	120	360	780	6.6	****

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

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

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

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level)										
(CALIFORNIA PUBLIC HEALTH GOAL)						(1)	(150)	(300)	(1800)	(13)	
RS-9	12/14/89										
RS-9***	09/04/96										
RS-9***	12/11/96										
RS-9***	2/21/97										
RS-9***	5/28/97										
RS-9***	9/2/97										
RS-9***	11/24/97										
RS-9***	2/25/98										
RS-9***	7/8/98										
RS-9***	9/16/98										
RS-9***	11/24/98										
RS-9***	2/23/99										
RS-9***	5/5/99										
RS-9***	8/26/99	195.63	7.46	188.17	17000	3500	1200	360	1600	180	*
RS-9	11/10/99	195.63	7.91	187.72	2800	520	62	46	130	<0.5	
RS-9	2/9/00	195.63	6.09	189.54	3400	650	74	64	130	<0.5	
RS-9	6/30/00	195.63	6.77	188.86	3000	600	79	74	120	<0.5	
RS-9	8/8/00	195.63	7.32	188.31	4900	500	430	160	530	<0.5	
RS-9	11/16/00	195.63	6.33	189.3	3000	350	220	90	220	<0.5	
RS-9	3/8/01	195.63	4.93	190.7	<50	3.4	<0.5	<0.5	<0.5	<0.5	****
RS-9	5/31/01	195.63	4.01	191.62	510	96	6	6.2	9.1	5.5	****
RS-9	12/18/01	195.63	4.81	190.82	210	11	1.8	3.9	7.6	<0.5	****
RS-9	2/19/02	195.63	4.99	190.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5	****
RS-9	5/7/02	195.63	6.08	189.55	130	7.9	<0.5	1.2	<0.5	0.67	****

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

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

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

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

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

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

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

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

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

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL	TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
(CALIFORNIA PUBLIC HEALTH GOAL)						(1)	(150)	(300)	(1800)	(13)	
T 1	12/14/89										
T 1	09/04/96										
T 1	12/11/96										
T 1	2/21/97										
T 1	5/28/97										
T 1	9/2/97										
T 1	11/24/97										
T 1	2/25/98										
T 1	7/8/98										
T 1	9/16/98										
T 1	11/24/98										
T 1	2/23/99										
T 1	5/5/99										
T 1***	8/26/99	195.11	2.44	192.67	40000	7200	5000	950	8100	53	*
T 1	11/10/99	195.11	2.23	192.88	46000	5600	3600	910	6500	<0.5	
T 1	2/9/00	195.11	2.22	192.89	35000	2900	5700	720	6600	<0.5	
T 1	6/30/00	195.11	2.22	192.89	30000	3400	3200	950	4600	<5	
T 1	8/8/00	195.11	2.73	192.38	8900	1600	760	260	870	<5	
T 1	11/16/00	195.11	2.72	192.39	4000	1300	92	80	290	<0.5	
T 1	3/8/01	195.11	2.12	192.99	25000	4400	3400	770	3200	26	****
T 1	5/31/01	195.11	2.30	192.81	8900	940	210	340	1500	<50	****
T 1	12/18/01	195.11	2.20	192.91	48000	3700	5500	1200	5300	24	****
T 1	2/19/02	195.11	1.96	193.15	64000	8600	6000	1700	6800	55	****
T 1	5/7/02	195.11	2.22	192.89	41000	9200	910	2000	6200	62	****

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

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

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)	DISSOLVED OXYGEN O2 (MG/L)	SULFATE SO4 (MG/L)	NITRATE NO3 (MG/L)	FERROUS IRON FE2 (MG/L)	TEMP-ERATURE (F)	pH	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: TOTAL PETROLEUM HYDROCARBONS GASOLINE (MG/L)	CARBON DI OXIDE CO2 (MG/L)	METHANE CH4 (MG/L)	AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
MW-1	8/26/99	229.57	11.41	218.16	4.9	35	0	0.25	75.4	6.55	<0.05					
	9/2/99	229.57	11.65	217.92					72.9	8.16		0.13	<0.00001	10	<1	<0.5
	3/8/01	229.57	12.30	217.27	4.9				67.6	7.33	<0.05					
	12/18/01	229.57	13.74	215.83	4.4	61	7.6	0	67.1	7.63	<0.05					
RS-2	8/26/99	227.39	11.42	215.97	0.7	46	2.7	0.65	80.9	6.97	0.2					
	9/2/99	227.39	12.00	215.39								nm	nm	nm	nm	nm
	12/18/01	227.39	6.99	220.4	4.6	>77	11.4	0.07	67.6	7.75	<0.05					
RS-5	8/26/99	227.61	16.06	211.55	0.7	31	1.3	0.92	71.7	7.08	35					
	9/2/99	227.61	16.26	211.35					68.4	7.15		0.16	0.00021	3000	<1	<0.5
	3/8/01	227.61	27.72	199.89	3.1				59.7	7.46	11					
	12/18/01	227.61	15.61	212	1.4	37	8.2	>3.3	66.6	6.83	12					
RS-6	8/26/99	227.22	13.72	213.5	1.2	76	0.3	>3.3	77.8	6.66	0.69					
	9/2/99	227.22	14.14	213.08					69	6.69		0.36	<0.00001	400	<1	<0.5
	12/18/01	227.22	10.88	216.34	4.3	>77	0	0	66.7	6.84	0.056					
RS-7	8/26/99	195.99	4.16	191.83	0.3	>77	0.8	1.27	73.4	6.99	15					
	9/2/99	195.99	4.14	191.85								nm	nm	nm	nm	nm
	12/18/01	195.99	4.81	191.18	2.5	1	6	0.87	68.1	6.82	2.7					
RS-8	8/26/99	214.67	7.25	207.42	2.6	0	0	0.54	69.2	6.7	160					
	9/2/99	214.67	7.38	207.29					71.7	5.74		0.058	0.000018	6600	<1	<0.5
	3/8/01	214.67	9.40	205.27	2.2				63.3	6.97	10					
	12/18/01	214.67	7.14	207.53	4.2	49	9.2	0.08	67.3	6.98	0.23					
RS-9	8/26/99	195.63	7.46	188.17	2.1	7	0	0.59	73.5	6.95	17					
	9/2/99	195.63	7.61	188.02					70.9	6.98		0.25	0.0021	10000	<1	<0.5
	3/8/01	195.63	4.93	190.7	0.1				62.7	6.89	<0.05					
	12/18/01	195.63	4.81	190.82	WATER TO CLOUDY, LIGHT GREY				68.3	6.8	0.21					
RS-10	8/26/99	208.46	3.76	204.7	4.2	nm	nm	nm	70.9	8.03	5.1					
	9/2/99	208.46	3.96	204.5					73.3	7.24		0.1	0.000037	8800	<1	<0.5
	3/8/01	208.46	2.82	205.64	3.5				61.5	6.16	0.053					
	12/18/01	208.46	2.10	206.36	4.3	46	4.1	0	66.9	6.54	<0.05					
R1	8/26/99	227.69	13.97	213.72	0.4	9	0	>3.3	70.6	6.38	6.5					
	9/2/99	227.69	14.18	213.51								nm	nm	nm	nm	nm
	12/18/01	227.69	9.90	217.79	5.2	14	4.2	0	66.4	7.24	<0.05					
R2	8/26/99	227.28	13.14	214.14	0.4	>77	0.8	0.3	72.7	6.65	6.7					
	9/2/99	227.28	13.23	214.05								nm	nm	nm	nm	nm
	12/18/01	227.28	12.35	214.93	2.8	>77	1.3	0.07	66.5	6.69	4.9					
R3	8/26/99	230.32	10.76	219.56	2.5	>77	0.7	0.05	75	6.95	<0.05					
	9/2/99	230.32	10.87	219.45								nm	nm	nm	nm	nm
	12/18/01	230.32	6.79	223.53	5.5	>77	6.2	0	67.1	6.91	<0.05					
T 1	8/26/99	195.11	2.44	192.67	0.8	32	0.5	0.03	75.3	7.29	40					
	9/2/99	195.11	2.20	192.91					78.1	7.57		0.11	0.00019	1300	<1	<0.5
	3/8/01	195.11	2.18	192.93	3.1						25					
	12/18/01	195.11	2.20	192.91	2.8	0	4.3	0.6	66.3	6.52	48					

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

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

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DEPTH TO GROUND WATER (FEET)	FIELD MEASUREMENTS: GROUND WATER ELEVATION (FEET AMSL)		FIELD MEASUREMENTS: DISSOLVED OXYGEN O2 (MG/L)	FIELD MEASUREMENTS: SULFATE SO4 (MG/L)	FIELD MEASUREMENTS: NITRATE NO3 (MG/L)	FIELD MEASUREMENTS: FERROUS IRON FE2 (MG/L)	FIELD MEASUREMENTS: TEMPERATURE (F)	FIELD MEASUREMENTS: pH	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: TOTAL PETROLEUM HYDROCARBONS GASOLINE (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: CARBON DI OXIDE CO2 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: METHANE CH4 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
T 2	8/26/99	195.3	CAR			nm	nm	nm	nm	nm	nm	NA					
	9/2/99	195.3	CAR										nm	nm	nm	nm	nm
T 3	8/26/99	202.38	CAR			nm	nm	nm	nm	nm	nm	NA					
	9/2/99	202.38	CAR										nm	nm	nm	nm	nm
T 4	8/26/99	197.48	CAR			nm	nm	nm	nm	nm	nm	NA					
	9/2/99	197.48	CAR										nm	nm	nm	nm	nm
LF-1	8/26/99	226.59	CAR			nm	nm	nm	nm	nm	nm	NA					
	9/2/99	226.59	CAR							nm	nm		nm	nm	nm	nm	nm

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

2

TABLE 3
WASTEWATER DISCHARGE PERMIT # 5043550 1
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

WASTEWATER SOURCE ID	DATE	METER READING IN GALLONS #35635668	NEW METER IN GALLONS #47083426	GALLONS DISCHARGED BETWEEN VISITS	ACCUMULATIVE GALLONS DISCHARGED	AVERAGE DISCHARGE PER MINUTE IN GALLONS	EPA METHOD 624 BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	7420 LEAD ug/L
		314110									
BAKER TANK	1/25/00	314110		0	0	0.00					
BAKER TANK	1/26/00	315050		940	940	0.65	<1	<1	<1	<1	<50
BAKER TANK	1/28/00	321120	1098330	6070	7010	2.11					
BAKER TANK	2/2/00		1102560	4230	11240	0.59					
BAKER TANK	2/3/00		1107482.2	4922	16162	3.42	<1	<1	<1	<1	<50
BAKER TANK	2/7/00		1107482.2	0	16162	0.00					
BAKER TANK AND 1/4LY SAMPLES	2/9/00		1109680	2198	18360	0.76	EPA METHOD 624				239.2
F1 (PSP No. 1)	3/23/00		1109720	40	18400	0.00	<1	<1	<1	<2	<5
F1 (PSP No. 1)	5/4/00		1110780	1060	19460	0.02					
F1 (PSP No. 1)	5/12/00		1111700	920	20380	0.08					
F1 (PSP No. 1)	5/18/00		1113359	1659	22039	0.19					
F1 (PSP No. 1)	5/25/00		1113840	481	22520	0.05					
F1 (PSP No. 1)	5/31/00		1115111	1271	23791	0.15					
F1 (PSP No. 1)	6/16/00		1115823	712	24503	0.03					
F1 (PSP No. 1)	6/28/00		1116293	470	24973	0.03					
F1 (PSP No. 1)	6/30/00		1116303	10	24983	0.00	EPA METHOD 624				200.7
F1 (PSP No. 1)	7/5/00		1116313	10	24993	0.00	<1	<1	<1	<2	<2
F1 (PSP No. 1)	7/13/00		1117816	1503	26496	0.13					
F1 (PSP No. 1)	7/20/00		1118892	1076	27572	0.11					
F1 (PSP No. 1)	7/27/00		1118892	0	27572	0.00					
F1 (PSP No. 1)	8/3/00		1120336	1444	29016	0.14					
F1 (PSP No. 1)	8/10/00		1121041	705	29721	0.07					
F1 (PSP No. 1)	8/17/00		1121041	0	29721	0.00					
F1 (PSP No. 1)	8/24/00		1121860	819	30540	0.08	EPA METHOD 624				200.7
F1 (PSP No. 1)	8/30/00		1122720	860	31400	0.10	<1	<2	<1	<2	<2
F1 (PSP No. 1)	9/7/00		1123270	550	31950	0.05					
F1 (PSP No. 1)	9/14/00		1123819	549	32499	0.05					
F1 (PSP No. 1)	9/21/00		1123819	0	32499	0.00					
F1 (PSP No. 1)	10/5/00		1124153	334	32833	0.02					
F1 (PSP No. 1)	10/12/00		1124660	507	33340	0.05					
F1 (PSP No. 1)	10/19/00		1125904.3	1244	34584	0.12					
F1 (PSP No. 1)	10/26/00		1127167	1263	35847	0.13					
F1 (PSP No. 1)	11/9/00		1128367.2	1200	37047	0.06					
F1 (PSP No. 1)	11/16/00		1129779.5	1412	38460	0.14					
F1 (PSP No. 1)	11/22/00		1130940.5	1161	39621	0.13					

TABLE 3
WASTEWATER DISCHARGE PERMIT # 5043550 1
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

WASTEWATER SOURCE ID	DATE	METER READING IN GALLONS #35635668 314110	NEW METER IN GALLONS #47083426	GALLONS DISCHARGED BETWEEN VISITS	ACCUMULATIVE GALLONS DISCHARGED	AVERAGE DISCHARGE PER MINUTE IN GALLONS	EPA METHOD 624 BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	7420 LEAD ug/L
F1 (PSP No. 1)	12/1/00		1134147	3207	42827	0.25	EPA METHOD 624				200.7
F1 (PSP No. 1)	12/7/00		1134289	142	42969	0.02	<1	<1	<1	<2	<2
F1 (PSP No. 1)	12/14/00		1134431	142	43111	0.01					
F1 (PSP No. 1)	12/21/00		1134573	142	43253	0.01					
F1 (PSP No. 1)	12/28/00		1134714.8	142	43395	0.01					
F1 (PSP No. 1)	1/11/01		1134714.8	0	43395	0.00	no discharge, could not access trench well				
F1 (PSP No. 1)	1/18/01		1135243.8	529	43924	0.05					
F1 (PSP No. 1)	1/25/01		1136144	900	44824	0.09					200.7
F1 (PSP No. 1)	2/8/01		1136659	515	45339	0.03					<2
F1 (PSP No. 1)	2/15/01		1137441.4	782	46121	0.08					
F1 (PSP No. 1)	2/22/01		1141123.6	3682	49804	0.37	start discharge from RS5				
F1 (PSP No. 1)	3/1/01		1150736.5	9613	59417	0.95	EPA METHOD 624				
F1 (PSP No. 1)	3/8/01		1158901.1	8165	67581	0.81	<1	<1	<1	<2	
F1 (PSP No. 1)	3/14/01		1162321.2	3420	71001	0.40					
F1 (PSP No. 1)	3/21/01		1162321.4	0	71001	0.00	no discharge, pump removed for repair				
F1 (PSP No. 1)	4/4/01		1163471.7	1150	72152	0.06					
F1 (PSP No. 1)	4/12/01		1164723.5	1252	73404	0.11	EPA METHOD 8260B				
F1 (PSP No. 1)	4/19/01		1173267	8544	81947	0.85	<0.5	<0.5	<0.5	<0.5	
F1 (PSP No. 1)	5/3/01		1181423.5	8157	90104	0.40					
F1 (PSP No. 1)	5/10/01		1188209.3	6786	96889	0.67					
F1 (PSP No. 1)	5/16/01		1189899.1	1690	98579	0.20					
F1 (PSP No. 1)	5/24/01		1198018.4	8119	106698	0.70					
F1 (PSP No. 1)	5/31/01		1199647.8	1629	108328	0.16					
F1 (PSP No. 1)	6/6/01		1204217.2	4569	112897	0.53					
F1 (PSP No. 1)	6/14/01		1210661.4	6444	119341	0.56					
F1 (PSP No. 1)	6/21/01		1214600	3939	123280	0.39					
F1 (PSP No. 1)	6/28/01		1219387.7	4788	128068	0.47					
F1 (PSP No. 1)	7/5/01		1223625.4	4238	132305	0.42					
F1 (PSP No. 1)	7/12/01		1228500	4875	137180	0.48	EPA METHOD 8260B				
F1 (PSP No. 1)	7/19/01		1232750.7	4251	141431	0.42	<0.5	<0.5	<0.5	<0.5	
	REMOVE PUMP AND DISCONTINUE SEWER DISCHARGE ON July 19, 2001, COMMENCE 1/4LY DISCHARGE										MTBE
F1 (PSP No. 1) 1/4LY SAMPLES	12/18/01			238	141669	5.00	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1) 1/4LY SAMPLES	2/19/02			246	141915	5.00	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	3/21/02		1235760	0	141915	2.00	place pump back into RS-5				
F1 (PSP No. 1)	3/27/02		1243817.8	8058	149973	0.93					
F1 (PSP No. 1)	4/11/02		1259678.6	15861	165833	0.73	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	5/7/02		1283903.1	24225	190058	0.65					
F1 (PSP No. 1)	6/6/02		1308480	24577	214635	0.57					

< 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.

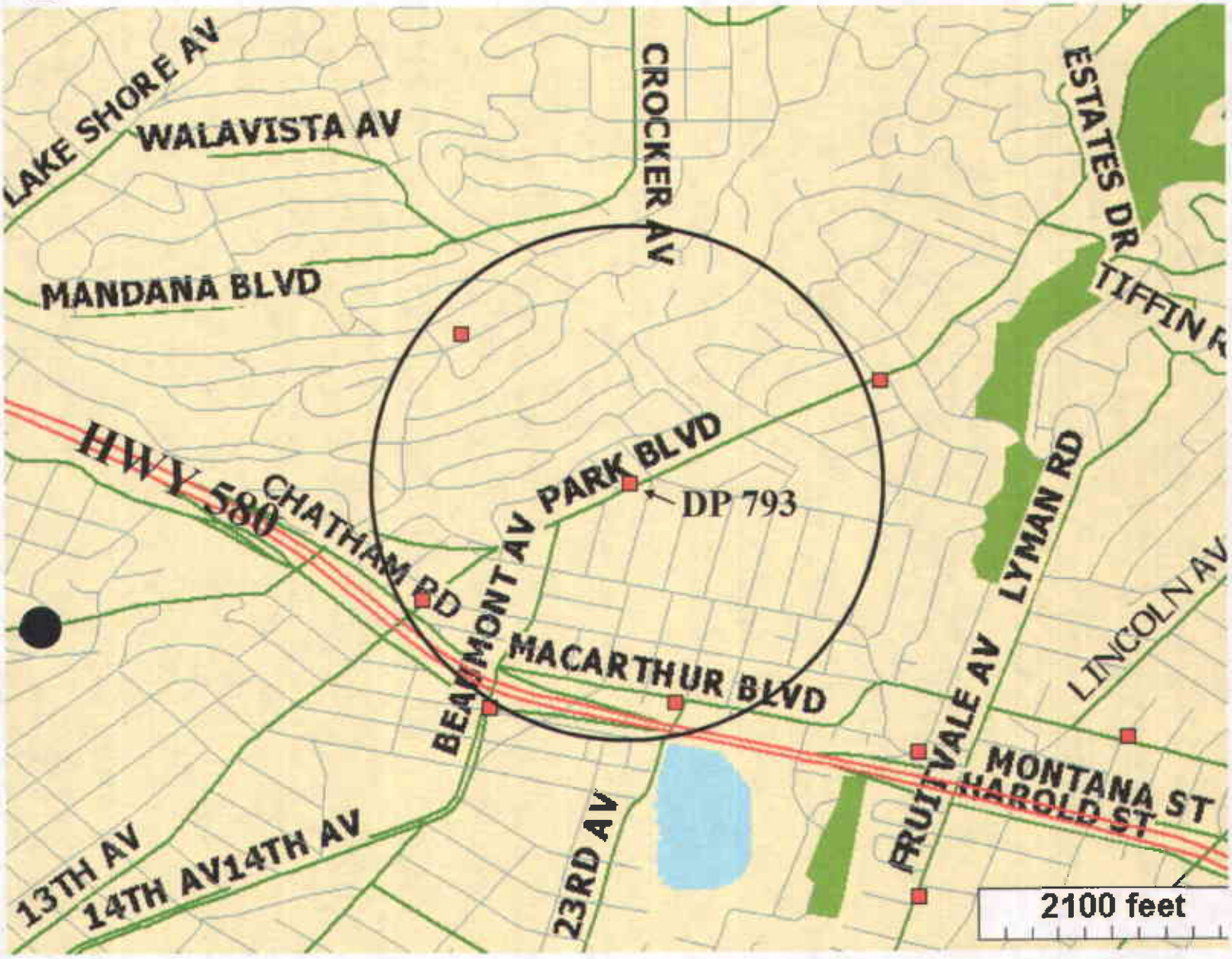
WATER DISCHARGED TO SEWER IS FROM PURGING OF T1, DISCHARGE FROM WELL RS5 AND PURGED WATER FROM 1/4LY SAMPLING.

TABLE 4
RECEPTOR TRENCH GROUNDWATER REMOVAL
FORMER DP #793
4035 PARK BLVD., OAKLAND, CALIFORNIA

PURGING BY	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	RECEPTOR TRENCH WATER ANALYSIS EPA METHOD 8020 TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L
						0								
WEGE	2/8/01		1136659.0	2.3	515	45339		45338.5						
WEGE	2/15/01		1137441.4	2.38	782	46121		46120.9						
WEGE	2/22/01	1140664.5	1141123.6	2	459	46580	3223.1	49803.1						
WEGE	3/1/01	1150033.2	1150736.5	2.18	703	47283	12132.7	59416.0						
WEGE	3/8/01	1158270.7	1158901.1	2.18	630	47914	19666.9	67580.6	25000	4400	3400	770	3200	26
WEGE	3/14/01	1161991.1	1162321.2	2.49	330	48244	22756.9	71000.7						
WEGE	3/21/01	1162321.4	1162321.4	2.49	0	48244	22757.1	71000.9						
WEGE	4/4/01	1162321.4	1163471.7	2.54	1150	49394	22757.1	72151.2						
WEGE	4/12/01	1163471.7	1164723.5	2.16	1252	50646	22757.1	73403.0						
WEGE	4/19/01	1172032.3	1173267.0	2.45	1235	51881	30065.9	81946.5						
WEGE	4/26/01	1179315.2	1180276.0	2.25	961	52841	36114.1	88955.5						
WEGE	5/3/01	1180334.5	1181423.5	2.3	1089	53930	36172.6	90103.0						
WEGE	5/10/01	1188209.3	1188209.3	2.29	0	53930	42958.4	96888.8						
WEGE	5/16/01	1188209.3	1189899.1	2.29	1690	55620	42958.4	98578.6						
WEGE	5/24/01	1197065.0	1198018.4	2.13	953	56574	50124.3	106697.9						
WEGE	5/31/01	1198878.6	1199647.3	2.3	769	57342	50984.5	108326.8	8900	940	210	340	1500	<50
WEGE	6/6/01	1203386.1	1204217.2	2.32	831	58173	54723.3	112896.7						
WEGE	6/14/01	1210661.4	1210661.4	2.31	0	58173	61167.5	119340.9						
WEGE	6/21/01	1214124.2	1214600.0	3.41	476	58649	64630.3	123279.5						
WEGE	6/28/01	1218305.1	1219387.7	2.37	1083	59732	68335.4	128067.2						
WEGE	7/5/01	1222739.6	1223625.4	3.5	886	60618	71687.3	132304.9						
WEGE	7/12/01	1227553.1	1228500.0	3	947	61565	75615.0	137179.5						
WEGE	7/19/01	1231804.3	1232750.7	3.61	946	62511	78919.3	141430.2	CEASE PUMPING					
WEGE	12/18/01	purged water from 1/4ly			238	62749	78919.3	141668.2	48000	3700	5500	1200	5300	24
WEGE	2/19/02	purged water from 1/4ly			246	62995	78919.3	141914.2	64000	8600	6000	1700	6800	55
WEGE	3/21/02	1235760.0	1235760.0		0	62995	78919.3	141914.2	set pump into RS5, restart pumping from RS-5					
WEGE	3/27/02	1243817.8	1243817.8		0	62995	86977.1	149972.0						
WEGE	4/11/02	1259678.6	1259678.6		0	62995	102837.9	165832.8						
WEGE	5/7/02	1283903.1	1283903.1	2.22	132	63127	126930.4	190057.3	41000	9200	910	2000	6200	62
WEGE	6/6/02	1308480.0	1308480.0		0	63127	151507.3	214634.2						

er liter (parts per billion)
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



N
W E
S

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

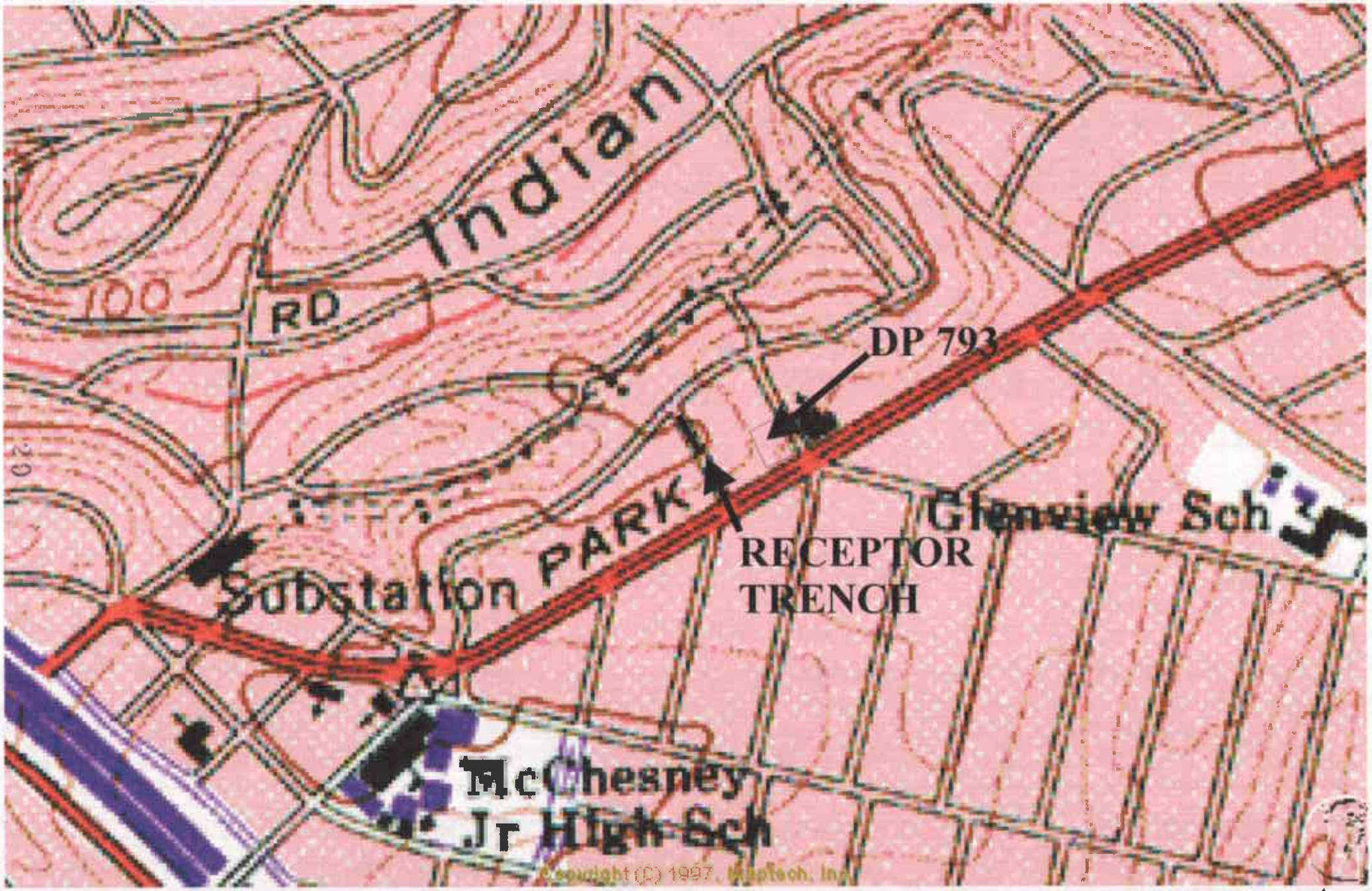


FIGURE 2
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP

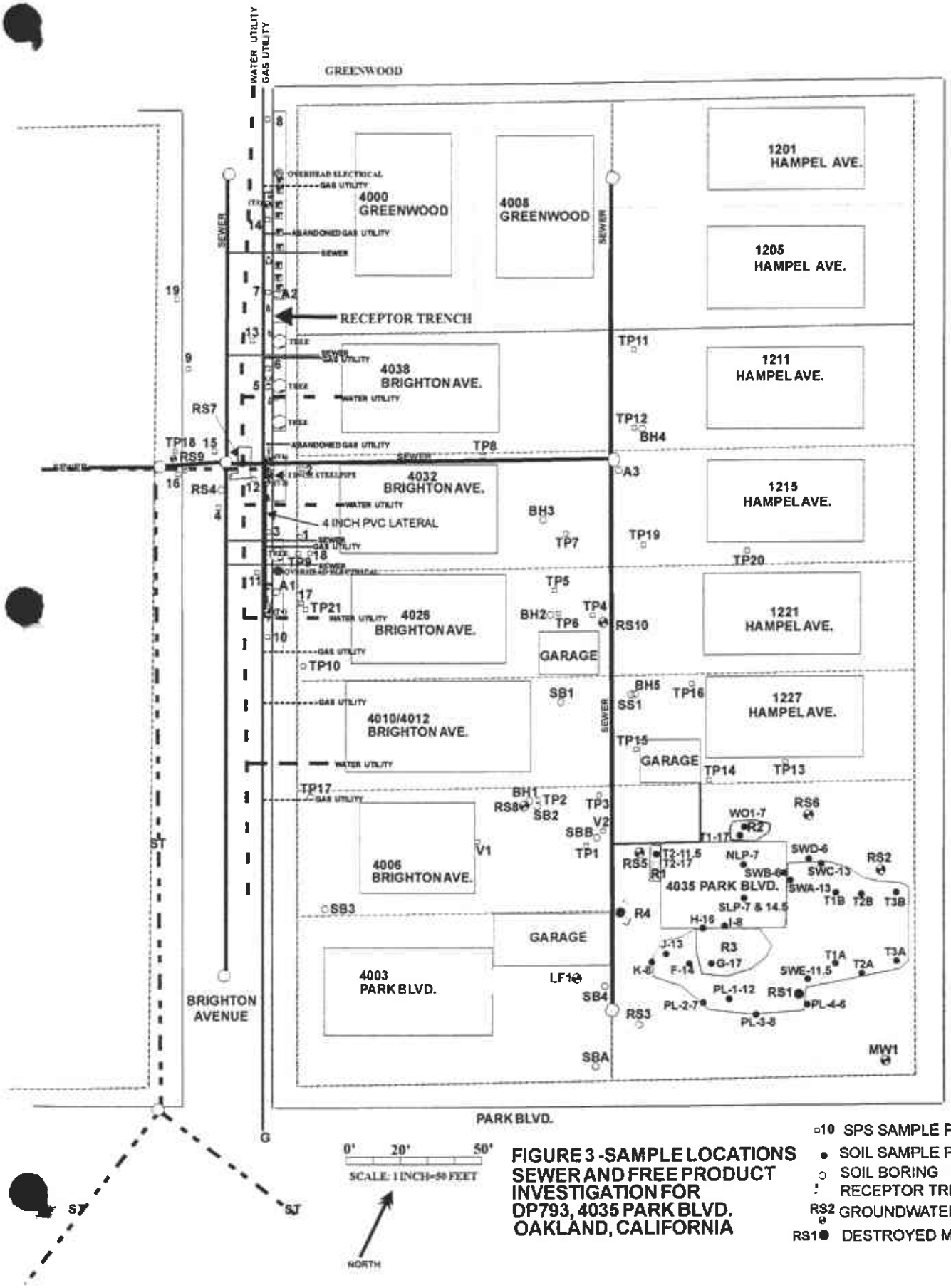


FIGURE 3 -SAMPLE LOCATIONS SEWER AND FREE PRODUCT INVESTIGATION FOR DP793, 4035 PARK BLVD. OAKLAND, CALIFORNIA

- ▫10 SPS SAMPLE POINT
- • SOIL SAMPLE POINT
- ○ SOIL BORING
- ! RECEPTOR TRENCH SAMPLE POIN
- RS2 GROUNDWATER MONITORING WEL
- RS1● DESTROYED MONITORING WELL

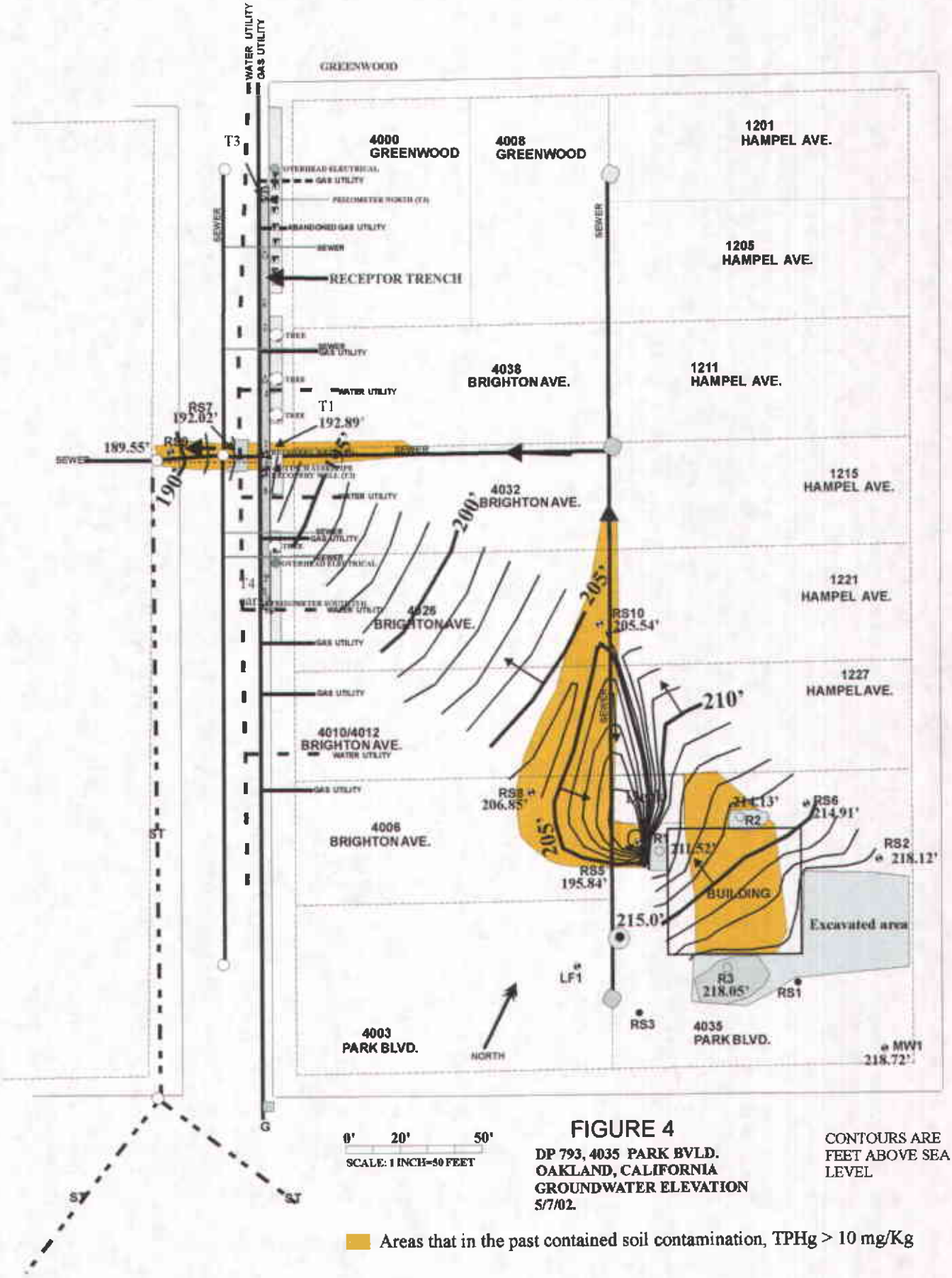


FIGURE 4

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION
5/7/02.

CONTOURS ARE FEET ABOVE SEA LEVEL

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

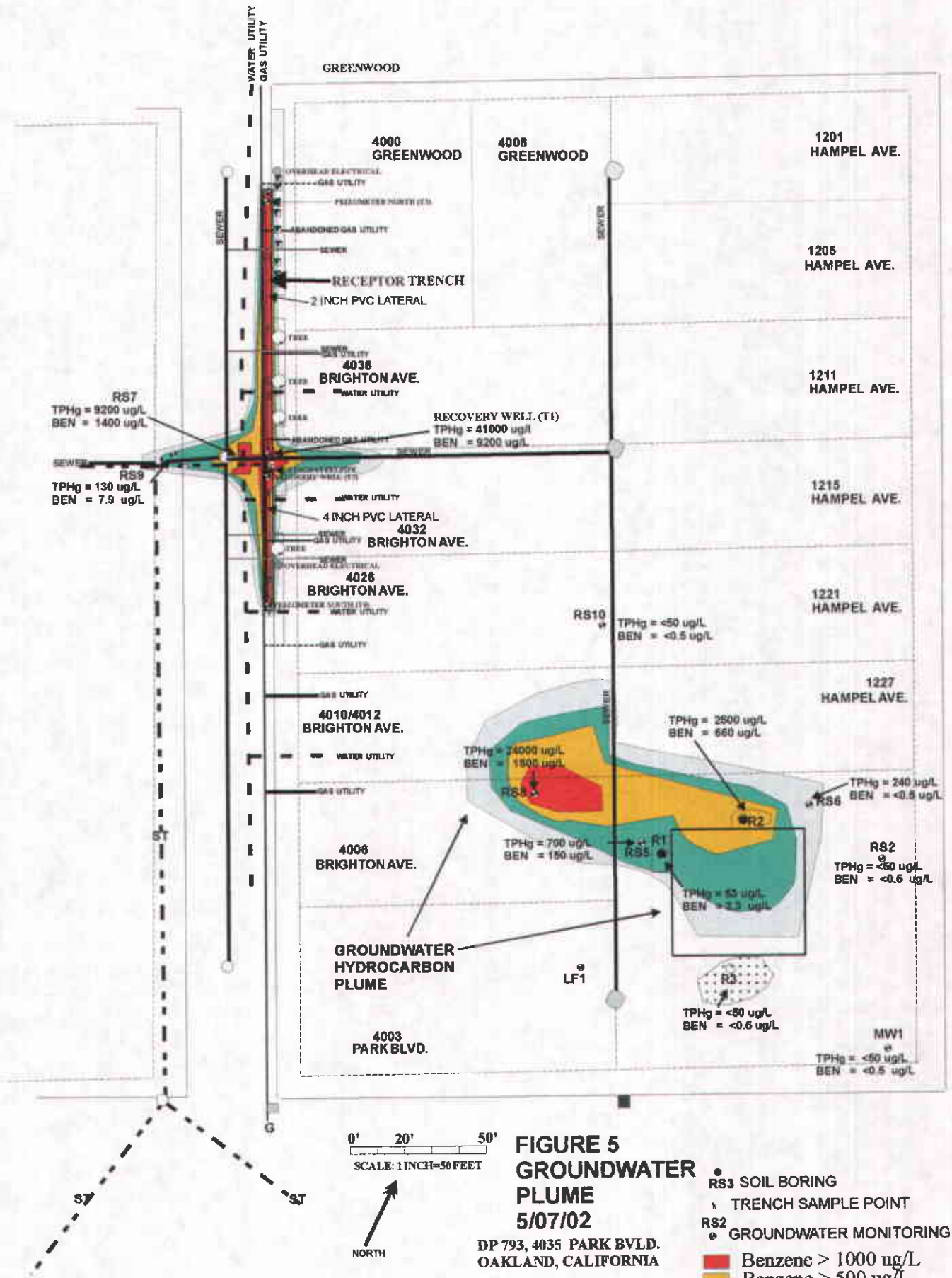
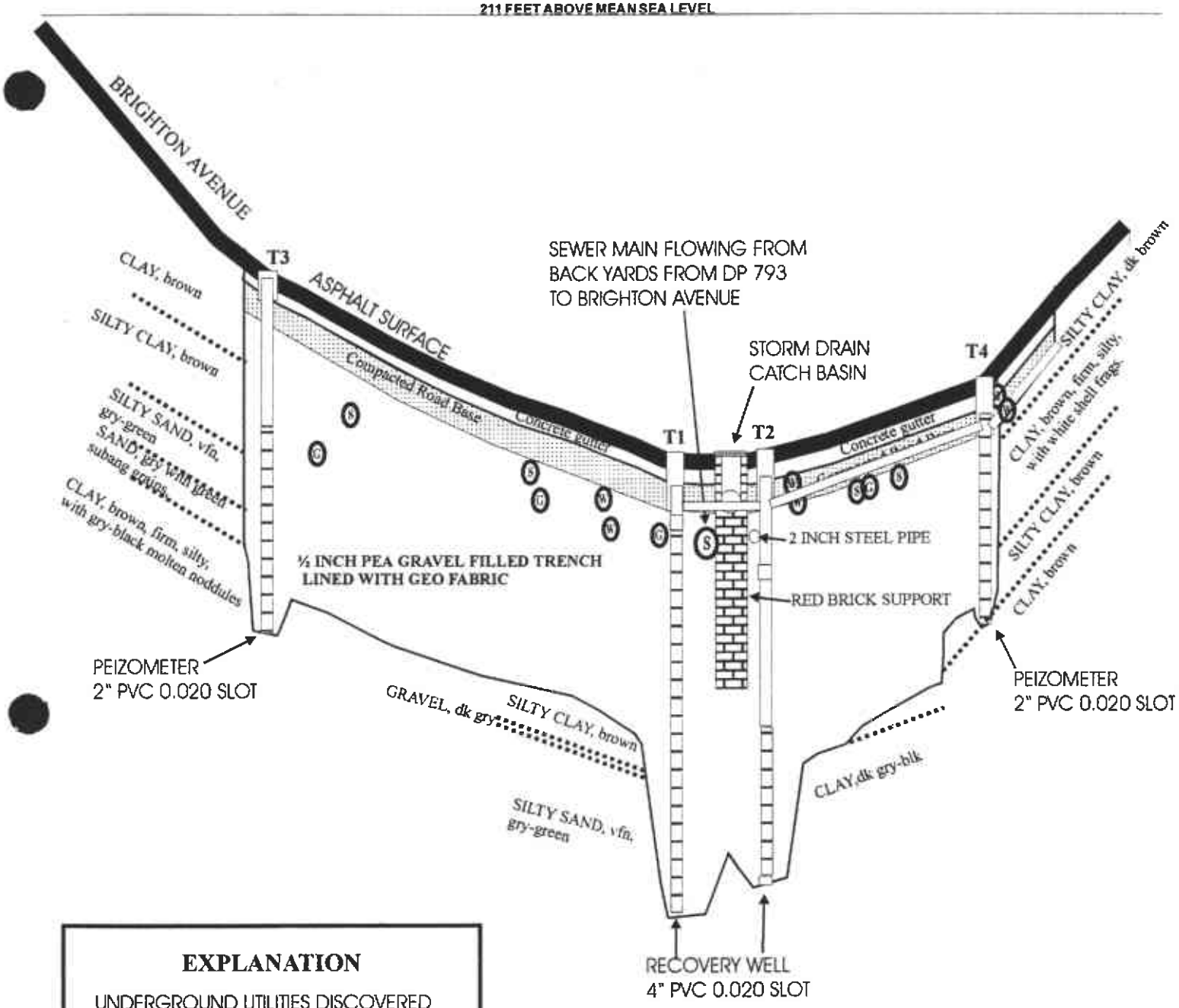


FIGURE 5
GROUNDWATER PLUME
5/07/02

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA



EXPLANATION

UNDERGROUND UTILITIES DISCOVERED

- (S) SEWER UTILITY HOUSE LATERAL
- (G) GAS UTILITY HOUSE LATERAL
- (W) WATER UTILITY HOUSE LATERAL

0' 10' 30' 60'

SCALE: 1 INCH = 30 FEET

NORTH

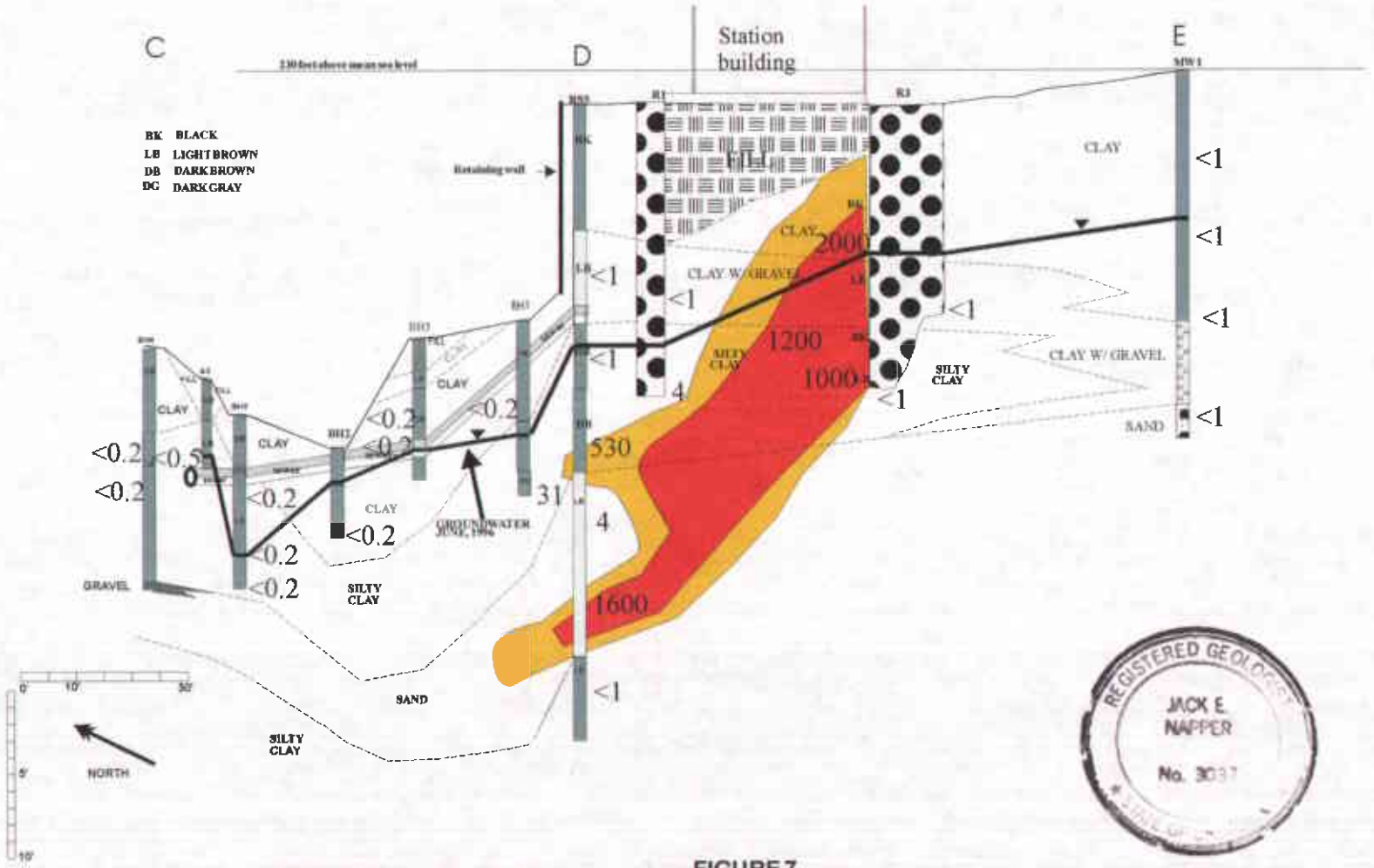
5'

10'

SCALE: 1 INCH = 5 FEET

REGISTERED GEOLOGIST
JACK E. NAPPER
No. 3033

FIGURE 6
CROSS SECTION
AS BUILT RECEPTOR TRENCH
FOR FREE PRODUCT AND GROUNDWATER RECOVERY
DP793, 4035 PARK BLVD.
OAKLAND, CALIFORNIA
SEPTEMBER 9, 1999



TPHg >100 mg/Kg

TPHg >1000 mg/Kg

REGISTERED GEOLOGIST
JACK E. NAPPER
No. 3037

FIGURE 7
CROSS SECTION
FREE PRODUCT INVESTIGATION
FOR
DP793, 4035 PARK BLVD.
OAKLAND, CALIFORNIA

APPENDIX A

METHODS AND PROCEDURES, QA/QC WITH FIELD NOTES

APPENDIX A.

METHODS AND PROCEDURES, QA/QC

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

Gauging and Measuring Monitor Wells.

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

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

Purging Standing Water from Monitor Wells

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

Collection of Water Sample for Analysis

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

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

Analytical Results

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

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

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

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

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

Chain of Custody Documentation

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

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

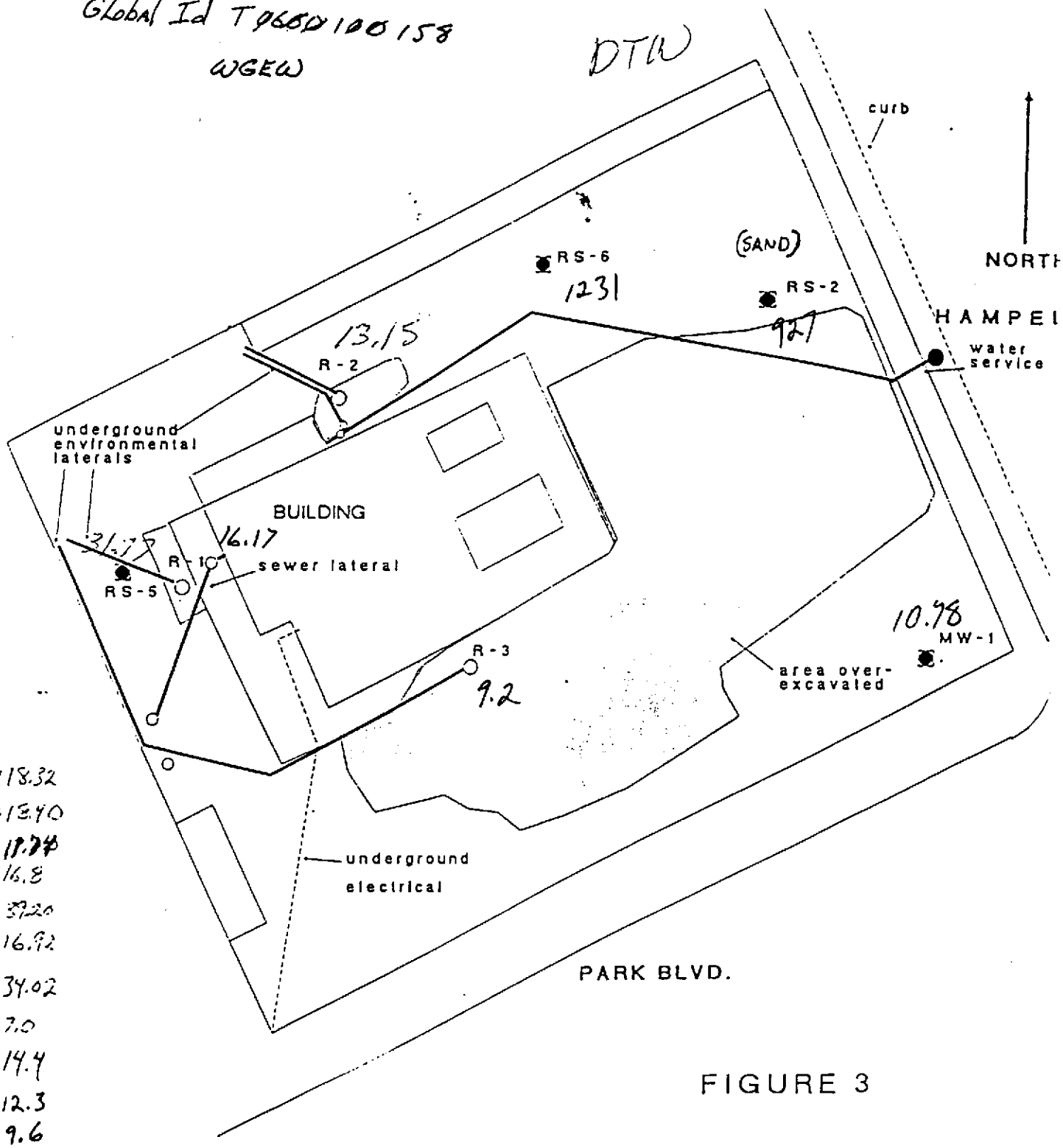
4 drums

5-7-02

Global Id T0600100158

WGEW

DTW



MW1 = 18.32
RS2 = 13.40
R3 = 11.24
R2 = 16.8
RS5 = 3.20
R1 = 16.92
RS6 = 34.02
RS7 = 7.0
RS8 = 14.4
RS9 = 12.3
RS10 = 9.6

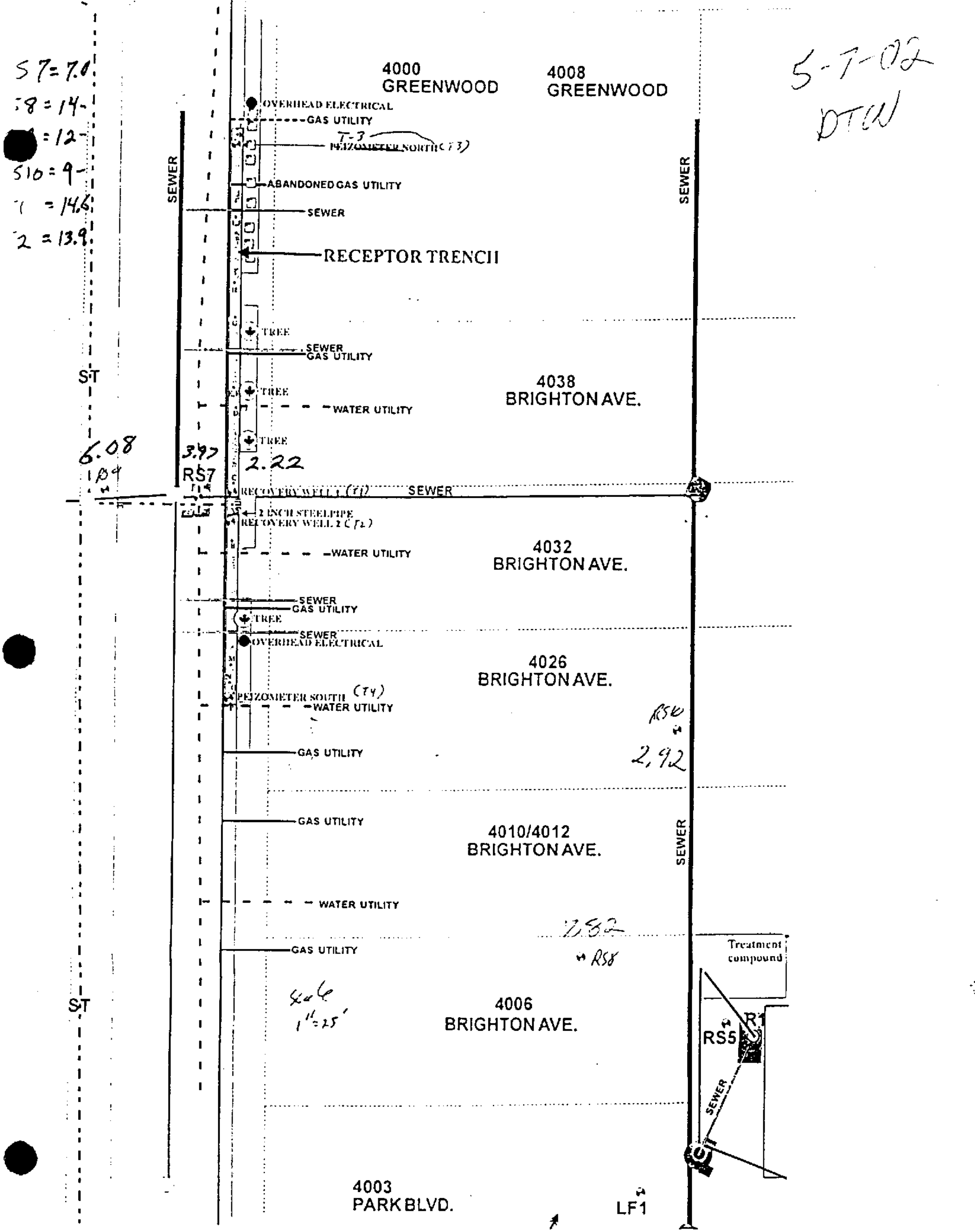
FIGURE 3

SITE BASE MAP

0' 20' 40'

SCALE: 1" = 20'.

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


5-7-02
DTW
S7=7.0
S8=14-
=12-
S10=9-
=14.6
2=13.9
4000
GREENWOOD
4008
GREENWOOD
OVERHEAD ELECTRICAL
GAS UTILITY
T-3
PEIZOMETER NORTH (T3)
ABANDONED GAS UTILITY
SEWER
RECEPTOR TRENCH
TREE
SEWER
GAS UTILITY
ST
TREE
WATER UTILITY
4038
BRIGHTON AVE.
TREE
6.08
1.09
3.97
RS7
2.22
RECOVERY WELL 1 (T1)
SEWER
2 INCH STEEL PIPE
RECOVERY WELL 2 (T2)
WATER UTILITY
4032
BRIGHTON AVE.
SEWER
GAS UTILITY
TREE
SEWER
OVERHEAD ELECTRICAL
4026
BRIGHTON AVE.
PEIZOMETER SOUTH (T4)
WATER UTILITY
RS6
2.92
GAS UTILITY
GAS UTILITY
4010/4012
BRIGHTON AVE.
WATER UTILITY
2.82
GAS UTILITY
RS8
Treatment compound
scale
1"=25'
ST
4006
BRIGHTON AVE.
R1
RS5
SEWER
4003
PARK BLVD.
LF1

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. _____ Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: WEGE Woodland 1386 Beamer CA 95776

Phone No.: 530-668-5300 FAX No.: 530 662-0277

Project Number: DP793. P.O. No:

Project Name: DP 793

Project Address: 4035 Park Blvd Oakland

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: WGEW

Global ID: T0600100158

EDF Deliverable To (Email Address): wege@mother.com

Sampler Signature: L J Broadway

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
Carbon discharge	5/3/02	1258	3		✓		✓		✓						✓										✓	

Relinquished by:	Date	Time	Received by:
L J Broadway	5/9/02	1545	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	5/9/02	1545	

Remarks:

Bill to:

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

Forms/coc 121001.fh9

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Lab No. ______ Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Manager: George Converse	Phone No.: 530-668-5300
Company/Address:	FAX No.: 530-662-0...
Project Number: PP 993 / P.O. No.:	Email Address: [illegible] ☒ .pdf ☐ .xls ☐ .doc ☐ other
Project Name: I-F TO66C100159	Sampler Signature: [signature]
Project Location: 4035 Park ... Oakland	

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT 12 hr/24 hr/48 hr/72 hr/(1 wk)	For Lab Use Only
MW1	5/7/02	1044	3		✓		✓		✓						✓									✓	
R1	✓	1250	✓		✓		✓		✓						✓									✓	
R2	✓	1210	✓		✓		✓		✓						✓									✓	
R3	✓	1024	✓		✓		✓		✓						✓									✓	
RSA2	✓	1102	✓		✓		✓		✓						✓									✓	
RS05	✓	1315	✓		✓		✓		✓						✓									✓	
RS06	✓	1234	✓		✓		✓		✓						✓									✓	
RS07	✓	946	✓		✓		✓		✓						✓									✓	
RS08	✓	902	✓		✓		✓		✓						✓									✓	
RS09	✓	924	✓		✓		✓		✓						✓									✓	

Relinquished by:	Date	Time	Received by:
[signature]	5/9/02	1535	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	050902	1535	[signature] KIFF

Remarks: WGEW

Bill to:

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

Forms/coc 062801.fh9

KIFF ANALYTICAL LLC

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Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Lab No. ________ Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Manager: George Converse

Phone No.: 530-[illegible]-5500

Company/Address: WEGE 1386 [illegible] Woodland CA 95776

FAX No.: 530-[illegible]-0255

Project Number: DP293

P.O. No.:

Email Address: [illegible]

☒ .pdf ☐ .xls ☐ .doc ☐ other

Project Name: T0660100157

Sampler Signature: [signature]

Project Location: 4035 Park Oakland

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	Analysis Request: TPH Gas/BTEX/MTBE (8260B)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk
RS10	5/7/02	914	3		|		|		|		|	|
T1	"	1000	3		|		|		|		|	|

Analysis Request columns (printed): 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); For Lab Use Only

Relinquished by:	Date	Time	Received by:
S. J. Barcelona [signature]	5/9/02	1535	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	[illegible]	[illegible]	[signature]

Remarks: WGEW

Bill to:

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

Forms/coc 062801.fh9

GEO-ENGINEERS
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE 2-~~19~~-02	TIME 1037
WELL MW1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	10.78 DTB	18.31
FLUID ELEVATION	218.72	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1038	1 Bailer	72.7	7.98	.24
~~1040~~	4 gal	71.5	7.94	.20
1042	1	72.0	7.95	.19

FINAL VOLUME PURGED	5 gal
TIME SAMPLED	1044
SAMPLE ID.	MW1
SAMPLE CONTAINERS	3/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

GEO-ENGINEERS
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15149
1283794417

WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE [redacted]-02	TIME 1048
WELL RS02	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	9.27 DTB	18.4
FLUID ELEVATION		18.12
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1049	1 Bailer	73.8	7.83	.53
1055	12 gal	73.2	7.06	.60
1057	1	71.2	7.23	.57
1059	1	70.7	7.29	.56
1101	1	70.2	7.26	.55

FINAL VOLUME PURGED	15 gal
TIME SAMPLED	1102
SAMPLE ID.	RS02
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

2b1

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128 3903.1

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-7-02	TIME 1305
WELL RS 05	SAMPLED BY. Broadway	

WELL ELEVATION	
PRODUCT THICKNESS	
DEPTH TO WATER	31.77 DTB 39.2
FLUID ELEVATION	195.84
BAILER TYPE	Disposable Bailer
PUMP	David Pittman

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1314	1 Bailer	67.8	7.19	.22
	gal			
Continuas Pump				

FINAL VOLUME PURGED	gal
TIME SAMPLED	1315
SAMPLE ID.	RS05
SAMPLE CONTAINERS	/40cc VOA s
ANALYSIS TO BE RUN	TPHg BTEX /MTBE
LABORATORY	NSE
NOTES:	1st Bailer Turbid rusty Partic Strong Odor

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WELL SAMPLING DATA SHEET

5-4

SITE OP 793	DATE ~~5-4~~ 5-02	TIME 1218
WELL RS06	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	12:31 DTB 34.02	
FLUID ELEVATION	214-91	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1219	1 Bailer	73.6	7.46	.38
1229	40 gal	76.6	7.40	.40
1231	1	73.4	7.05	.40
1233	1	73.1	7.01	.40

FINAL VOLUME PURGED	42 gal
TIME SAMPLED	1234
SAMPLE ID.	RS 06
SAMPLE CONTAINERS	3/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

2 to 1

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WELL SAMPLING DATA SHEET

5-7

SITE OD 793	DATE ~~2-19~~-02	TIME 931
WELL RS07	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	3.97 DTB 7	
FLUID ELEVATION	192.02	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
935	1 Bailer	72.9	7.19	.38
941	4 gal	73.8	6.98	.37
943	1	70.0	6.71	.32
945	1	70.4	6.69	.32

FINAL VOLUME PURGED	6 gal
TIME SAMPLED	RS07 ↓
SAMPLE ID.	946 ↓
SAMPLE CONTAINERS	3/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Turbid Strong Odor

2 Ab.

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 5-7-02	TIME 8:50
WELL RS-08	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	7.82 DTB 14	
FLUID ELEVATION	206.85	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
854	1 Bailer	72.6	8.79	.38
857	1 gal	70.1	7.73	.36
859	1	71.3	7.55	.35
901	1	71.1	7.52	.35

FINAL VOLUME PURGED	3 gal
TIME SAMPLED	902
SAMPLE ID.	RS-08
SAMPLE CONTAINERS	3/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Strong Odor

GEO-ENGINEERS
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE ~~7-9~~-02	TIME 917
WELL RS 09	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	6.08 DTB 12	
FLUID ELEVATION	189.55	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
919	1 Bailer	72.8	7.79	.41
921	1 gal	70.5	7.54	.39
923	1	71.1	7.41	.38
925	1	70.9	7.42	.38

FINAL VOLUME PURGED	3 gal
TIME SAMPLED	926
SAMPLE ID.	RS 09
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy No Odor

2 to 1

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WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE ~~2-14~~-02	TIME 905
WELL RS10	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	2.92 DTB 9	
FLUID ELEVATION	205.54	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
907	1 Bailer	73.2	7.48	.33
909	1 gal	72.0	7.40	.32
911	1	71.7	7.32	.32
913	1	71.4	7.31	.31

FINAL VOLUME PURGED	3 gal
TIME SAMPLED	914
SAMPLE ID.	RS10
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Slight odor

7b1

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WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE ~~9~~-02	TIME 1241
WELL R1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 16.17	DTB 16.97	
FLUID ELEVATION	211.52	
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1243	1 Bailer	75.1	7.48	.12
1245	2 gal	72.4	7.72	.10
1247	1	71.2	7.42	.09
1249	1	70.9	7.51	.10

FINAL VOLUME PURGED	4 gal
TIME SAMPLED	1250
SAMPLE ID.	R1
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy Some Odor

2b1

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WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE ~~2-19~~-02	TIME 1155
WELL R2	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	13.15 DTB 16.8	
FLUID ELEVATION	214.13	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1158	1 Bailer	72.1	7.63	.61
1202	10 gal	68.2	7.24	.43
1204	1	67.7	6.98	.42
1206	1	66.9	6.94	.42
1208	1	67.0	6.94	.42

FINAL VOLUME PURGED	13 gal
TIME SAMPLED	1210
SAMPLE ID.	R2
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Some Odor Strong But?

3b1

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WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE ~~2-19-02~~	TIME 1011
WELL R3	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	9.2 DTB	10.72
FLUID ELEVATION	218.05	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1012	1 Bailer	73.0	7.88	.55
1019	5 gal	71.0	7.65	.54
1021	1	70.8	7.60	.53
1023	1	70.1	7.58	.57

FINAL VOLUME PURGED	7 gal
TIME SAMPLED	1024
SAMPLE ID.	R3
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer clear No Odor

2 to 1

GEO-ENGINEERS
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WELL SAMPLING DATA SHEET

5-7

SITE OP 793	DATE ~~2-19~~-02	TIME 949
WELL T1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	2.22 DTB 14	
FLUID ELEVATION	192.89	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
951	1 Bailer	71.2	6.75	.42
957	30 gal	72.6	7.68	.43
959	61	72.4	7.68	.42

FINAL VOLUME PURGED	31 gal
TIME SAMPLED	1000
SAMPLE ID.	T1
SAMPLE CONTAINERS	3/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Turbid Strong Odor

2 to 1

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 6-6-02

REASON FOR SITE VISIT Weekly Insp & Maint

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP.	COND
		N/A			

TRENCH WELL T2				
PID	DTW	pH	TEMP.	COND.
	N/A			

TRENCH WELL T3				
PID	DTW	pH	TEMP.	COND
	N/A			

TRENCH WELL T4				
PID	DTW	pH	TEMP	COND
	N/A			

DEPTH TO WATER

TIME	MW1	RS2	RS5	RS6
1430	—	—	24.93	—

RS7	RS8	RS9	RS10
—	12.58	—	5.01

R1	R2	R3
16.05	13.64	9.85

COMMENTS Door facing Park Blvd was standing open - No lock - closed & put fork thru haspe

ELECTRIC METER ———

WATER METER 1308480.0

SAMPLE(s) None

SITE MONITORED BY Broadway

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 12 PSI, #2 ___ PSI,

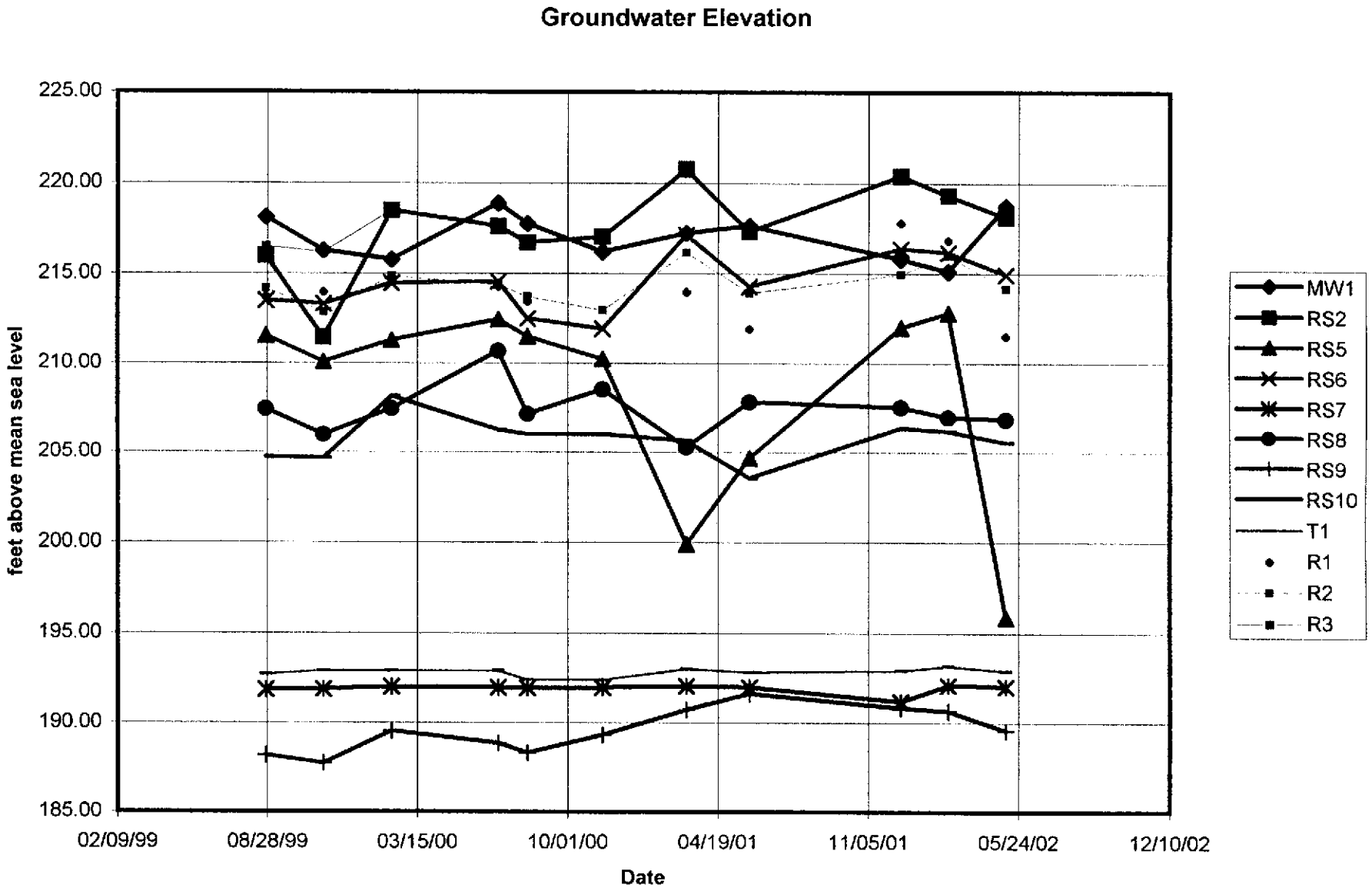
WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS OK

Acceptance of water phase carbon units only if completely flooded with water ___ yes ___ no - return to carbon manufacture
Acceptance of water phase carbon units only if pH is less than 8 5 and containers are in good condition ___ yes ___ no - return to carbon manufacture

APPENDIX B.

GROUNDWATER ELEVATION CHART


Groundwater Elevation
225.00
220.00
215.00
210.00
205.00
200.00
195.00
190.00
185.00
feet above mean sea level
02/09/99
08/28/99
03/15/00
10/01/00
04/19/01
11/05/01
05/24/02
12/10/02
Date
MW1
RS2
RS5
RS6
RS7
RS8
RS9
RS10
T1
R1
R2
R3

APPENDIX C

LABORATORY REPORT

KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Subject : 12 Water Samples
Project Name : DP793
Project Number : DP793

Dear Mr. Converse,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Sample : **MW1** Matrix : Water Lab Number : 26302-01
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	5/10/2002
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	5/10/2002

Sample : **R1** Matrix : Water Lab Number : 26302-02
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**3.3**	0.50	ug/L	EPA 8260B	5/10/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Ethylbenzene	**1.0**	0.50	ug/L	EPA 8260B	5/10/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
TPH as Gasoline	**53**	50	ug/L	EPA 8260B	5/10/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/10/2002
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	5/10/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Sample : **R2** Matrix : Water Lab Number : 26302-03
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**660**	2.5	ug/L	EPA 8260B	5/12/2002
Toluene	**7.5**	2.5	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**170**	2.5	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**26**	2.5	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**< 2.5**	2.5	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**2500**	250	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	5/12/2002

Sample : **R3** Matrix : Water Lab Number : 26302-04
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/10/2002
4-Bromofluorobenzene (Surr)	96.7		% Recovery	EPA 8260B	5/10/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Sample : **RSO2** Matrix : Water Lab Number : 26302-05
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	96.8		% Recovery	EPA 8260B	5/12/2002

Sample : **RS05** Matrix : Water Lab Number : 26302-06
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**150**	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	**10**	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**19**	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**67**	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**5.2**	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**700**	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	96.5		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	5/12/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Sample : **RS06** Matrix : Water Lab Number : 26302-07
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**240**	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	97.1		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	97.5		% Recovery	EPA 8260B	5/12/2002

Sample : **RS07** Matrix : Water Lab Number : 26302-08
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1400**	5.0	ug/L	EPA 8260B	5/14/2002
Toluene	**120**	5.0	ug/L	EPA 8260B	5/14/2002
Ethylbenzene	**360**	5.0	ug/L	EPA 8260B	5/14/2002
Total Xylenes	**780**	5.0	ug/L	EPA 8260B	5/14/2002
Methyl-t-butyl ether (MTBE)	**6.6**	5.0	ug/L	EPA 8260B	5/14/2002
TPH as Gasoline	**9200**	500	ug/L	EPA 8260B	5/14/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/14/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	5/14/2002

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KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Sample : **RS08** Matrix : Water Lab Number : 26302-09
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1500**	10	ug/L	EPA 8260B	5/12/2002
Toluene	**1800**	10	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**830**	10	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**2700**	10	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**< 10**	10	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**24000**	1000	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	5/12/2002

Sample : **RS09** Matrix : Water Lab Number : 26302-10
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**7.9**	0.50	ug/L	EPA 8260B	5/15/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/15/2002
Ethylbenzene	**1.2**	0.50	ug/L	EPA 8260B	5/15/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/15/2002
Methyl-t-butyl ether (MTBE)	**0.67**	0.50	ug/L	EPA 8260B	5/15/2002
TPH as Gasoline	**130**	50	ug/L	EPA 8260B	5/15/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/15/2002
4-Bromofluorobenzene (Surr)	115		% Recovery	EPA 8260B	5/15/2002

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KIFF ANALYTICAL LLC

Report Number : 26302
Date : 5/15/2002

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

Sample : **RS10** Matrix : Water Lab Number : 26302-11
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/10/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/10/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/10/2002
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	5/10/2002

Sample : **T1** Matrix : Water Lab Number : 26302-12
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**9200**	50	ug/L	EPA 8260B	5/15/2002
Toluene	**910**	20	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**2000**	20	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**6200**	20	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**62**	20	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**41000**	2000	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	115		% Recovery	EPA 8260B	5/12/2002

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Report Number : 26302

Date : 5/15/2002

QC Report : Method Blank Data

Project Name : **DP793**

Project Number : **DP793**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	100		%	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	99.9		%	EPA 8260B	5/12/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/10/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/10/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/10/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/10/2002
Toluene - d8 (Surr)	99.1		%	EPA 8260B	5/10/2002
4-Bromofluorobenzene (Surr)	97.8		%	EPA 8260B	5/10/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	101		%	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	98.1		%	EPA 8260B	5/12/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

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Report Number : 26302

Date : 5/15/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **DP793**

Project Number : **DP793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	26319-04	<0.50	39.9	39.9	37.3	37.3	ug/L	EPA 8260B	5/12/02	93.5	93.4	0.0267	70-130	25
Toluene	26319-04	<0.50	39.9	39.9	37.0	37.0	ug/L	EPA 8260B	5/12/02	92.8	92.6	0.135	70-130	25
Tert-Butanol	26319-04	<5.0	200	200	163	163	ug/L	EPA 8260B	5/12/02	81.6	81.9	0.422	70-130	25
Methyl-t-Butyl Ether	26319-04	1.2	39.9	39.9	35.5	35.3	ug/L	EPA 8260B	5/12/02	86.0	85.5	0.496	70-130	25
Benzene	26297-01	<0.50	40.0	40.0	41.8	42.7	ug/L	EPA 8260B	5/10/02	104	107	2.25	70-130	25
Toluene	26297-01	<0.50	40.0	40.0	42.2	42.9	ug/L	EPA 8260B	5/10/02	106	107	1.62	70-130	25
Tert-Butanol	26297-01	<5.0	200	200	198	209	ug/L	EPA 8260B	5/10/02	99.2	104	5.19	70-130	25
Methyl-t-Butyl Ether	26297-01	8.9	40.0	40.0	52.6	54.6	ug/L	EPA 8260B	5/10/02	109	114	4.52	70-130	25
Benzene	26267-10	<0.50	40.0	40.0	42.7	42.4	ug/L	EPA 8260B	5/12/02	107	106	0.541	70-130	25
Toluene	26267-10	<0.50	40.0	40.0	41.2	40.3	ug/L	EPA 8260B	5/12/02	103	101	2.38	70-130	25
Tert-Butanol	26267-10	<5.0	200	200	199	201	ug/L	EPA 8260B	5/12/02	99.6	101	1.02	70-130	25
Methyl-t-Butyl Ether	26267-10	<0.50	40.0	40.0	45.0	44.2	ug/L	EPA 8260B	5/12/02	112	110	1.79	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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Report Number : 26302

Date : 5/15/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **DP793**

Project Number : **DP793**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/12/02	94.0	70-130
Toluene	40.0	ug/L	EPA 8260B	5/12/02	92.3	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/12/02	82.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/12/02	85.8	70-130
Benzene	40.0	ug/L	EPA 8260B	5/10/02	104	70-130
Toluene	40.0	ug/L	EPA 8260B	5/10/02	108	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/10/02	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/10/02	101	70-130
Benzene	40.0	ug/L	EPA 8260B	5/12/02	108	70-130
Toluene	40.0	ug/L	EPA 8260B	5/12/02	111	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/12/02	107	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/12/02	98.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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KIFF ANALYTICAL LLC

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Lab No. 26302 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Manager: George Converse
Phone No.: 530-668-5300
Company/Address:
FAX No.: 530-662-0273
Project Number: DP793
P.O. No.:
Email Address: wege@mother.com
☒ .pdf ☐ .xls ☑ .doc ☐ other
Project Name: Id # T0660100158 DP793
Sampler Signature: [signature]
Project Location: 4035 Park Oakland

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	SLEEVE			Preservative: HCl	HNO_3	ICE	NONE		Matrix: 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)					TAT: 12 hr/24 hr/48 hr/72 hr/(wk)	For Lab Use Only
MW1	5/7/02	1044	3				↓		↓			↓							↓													↓	01
R1	↓	1250	↓				↓		↓			↓							↓													↓	02
R2	↓	1210	↓				↓		↓			↓							↓													↓	03
R3	↓	1024	↓				↓		↓			↓							↓													↓	04
RS02	↓	1102	↓				↓		↓			↓							↓													↓	05
RS05	↓	1315	↓				↓		↓			↓							↓													↓	06
RS06	↓	1234	↓				↓		↓			↓							↓													↓	07
RS07	↓	946	↓				↓		↓			↓							↓													↓	08
RS08	↓	902	↓				↓		↓			↓							↓													↓	09
RS09	↓	926	↓				↓		↓			↓							↓													↓	10

Relinquished by:	Date	Time	Received by:	Remarks:
[signature]	5/9/02	1535		WGEW
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	050902	1535	Michelle Woollett / Kiff Analytical	

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

Forms/coc 062801.fh9

KIFF ANALYTICAL LLC

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Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4803

Lab No. 26302 Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Manager: George Converse	Phone No.: 530-668-5300
Company/Address: WEGE 1886 Beamer Woodland CA 95776	FAX No.: 530-662-0273
Project Number: DP 793 / P.O. No.:	Email Address: wege@mother.com ☒.pdf ☐.xls ☒.doc ☐other
Project Name: T0660100158	Sampler Signature: S J Boundary
Project Location: 4035 Park Oakland	

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE	Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)	TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
RS10	5/7/02	914	3																						11
T1	"	1000	3																						12

Relinquished by: S J Boundary	Date 5/9/02	Time 1535	Received by:	Remarks: WGEW
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 050902	Time 1535	Received by Laboratory: Michelle Wollmuth / Kiff Analytical	Bill to:

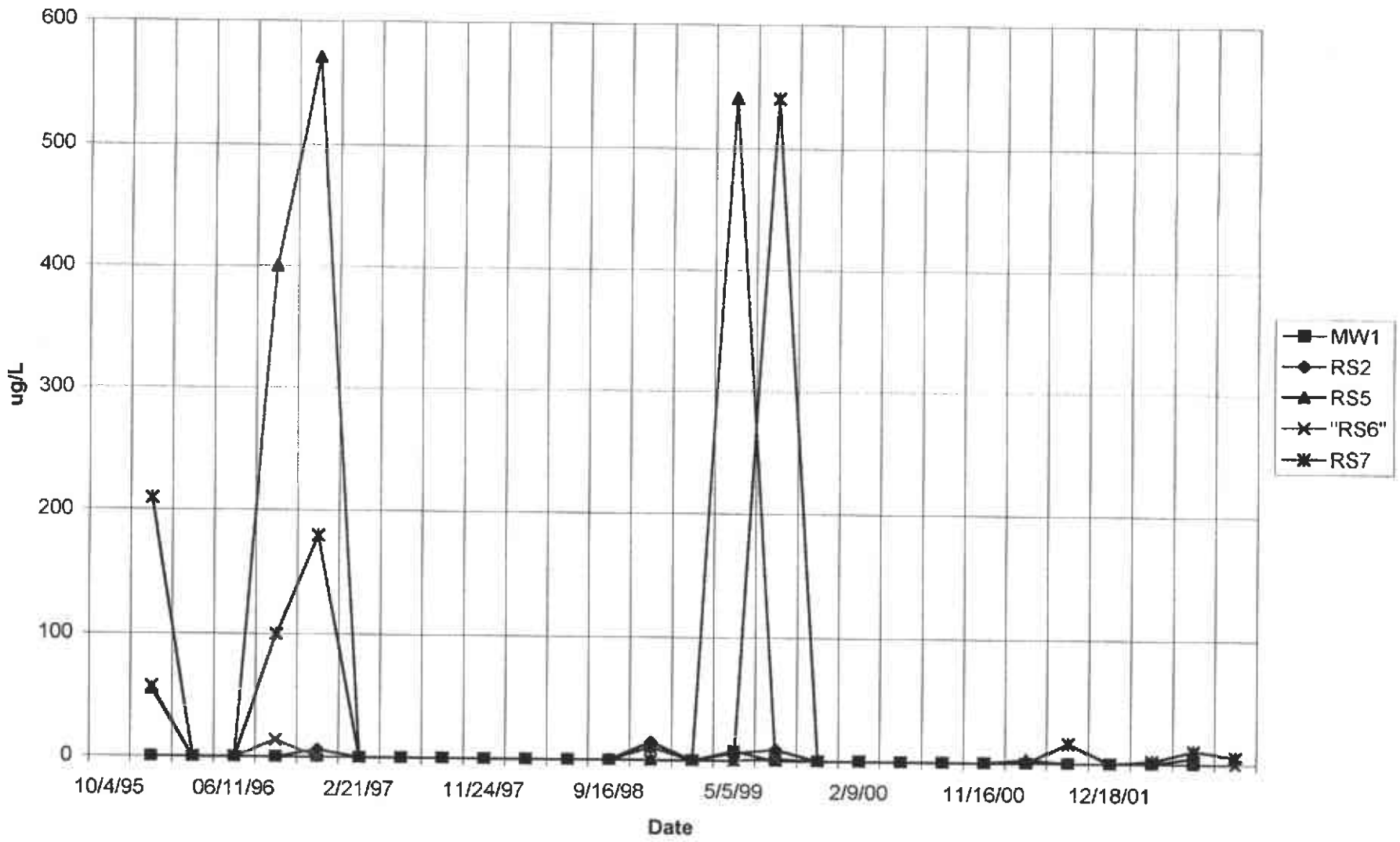
Distribution: White - Lab, Yellow - File, Pink - Originator

Forms/coc 062801.fh9

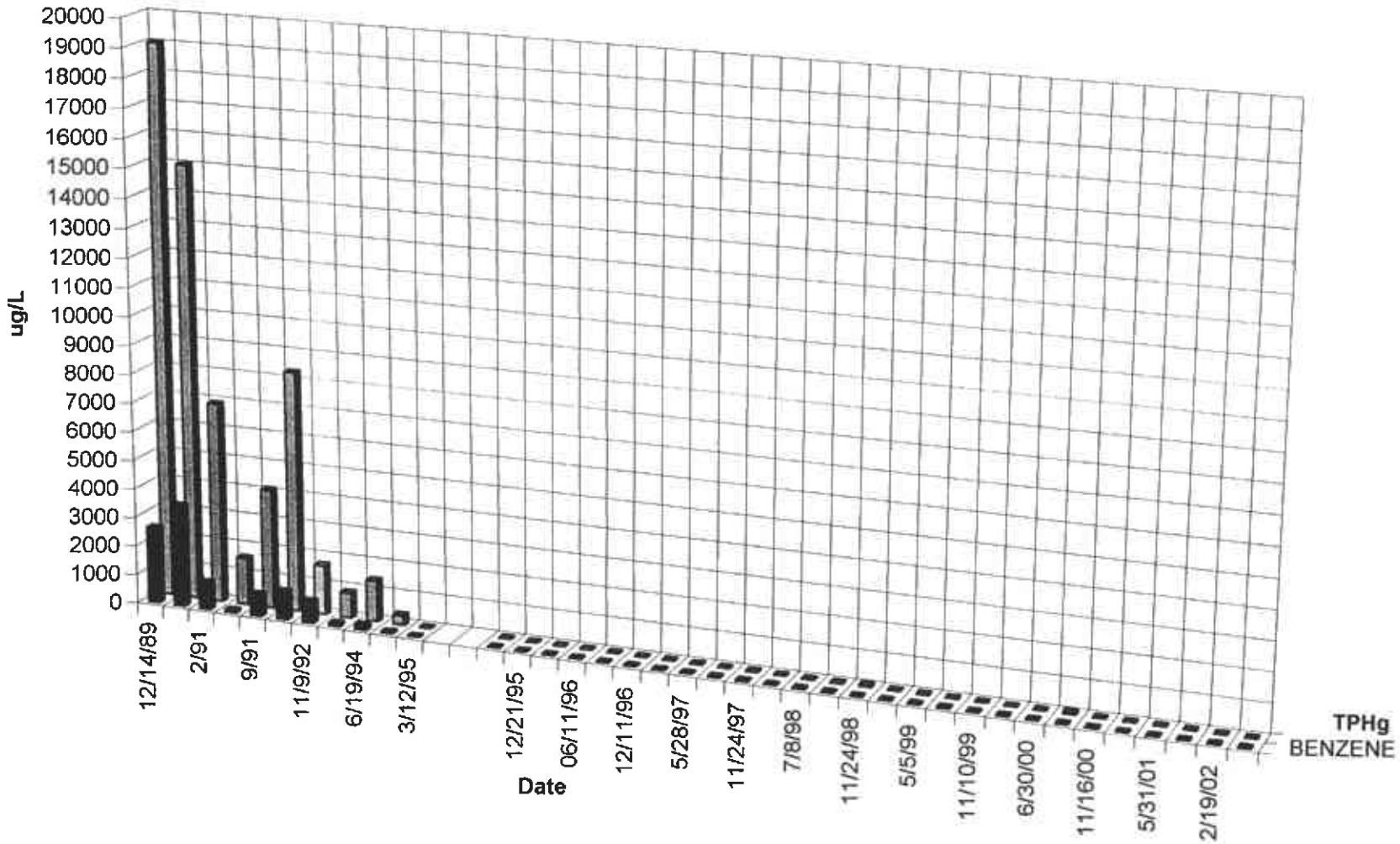
APPENDIX D.

MtBE, TPHg AND BENZENE CHARTS

MTBE IN WELLS



RS-1/MW-1 TPHg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2000
1000
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12/14/89
2/91
9/91
11/9/92
6/19/94
3/12/95
12/21/95
06/11/96
12/11/96
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11/24/97
7/8/98
11/24/98
5/5/99
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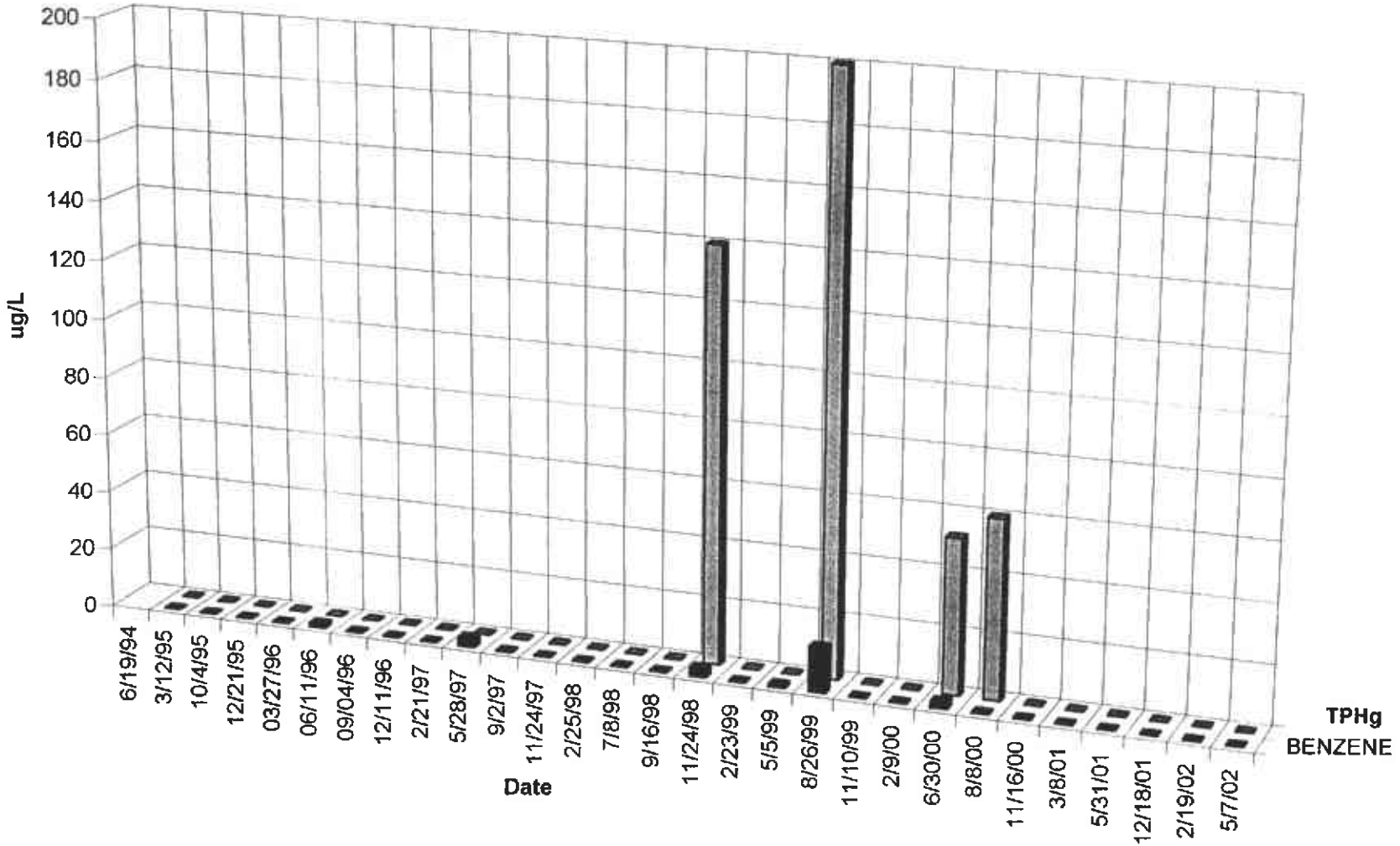
11/16/00
5/31/01
2/19/02
Date
TPHg
BENZENE

RS-2 TPHg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140
120
100
80
60
40
20
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3/12/95
10/4/95
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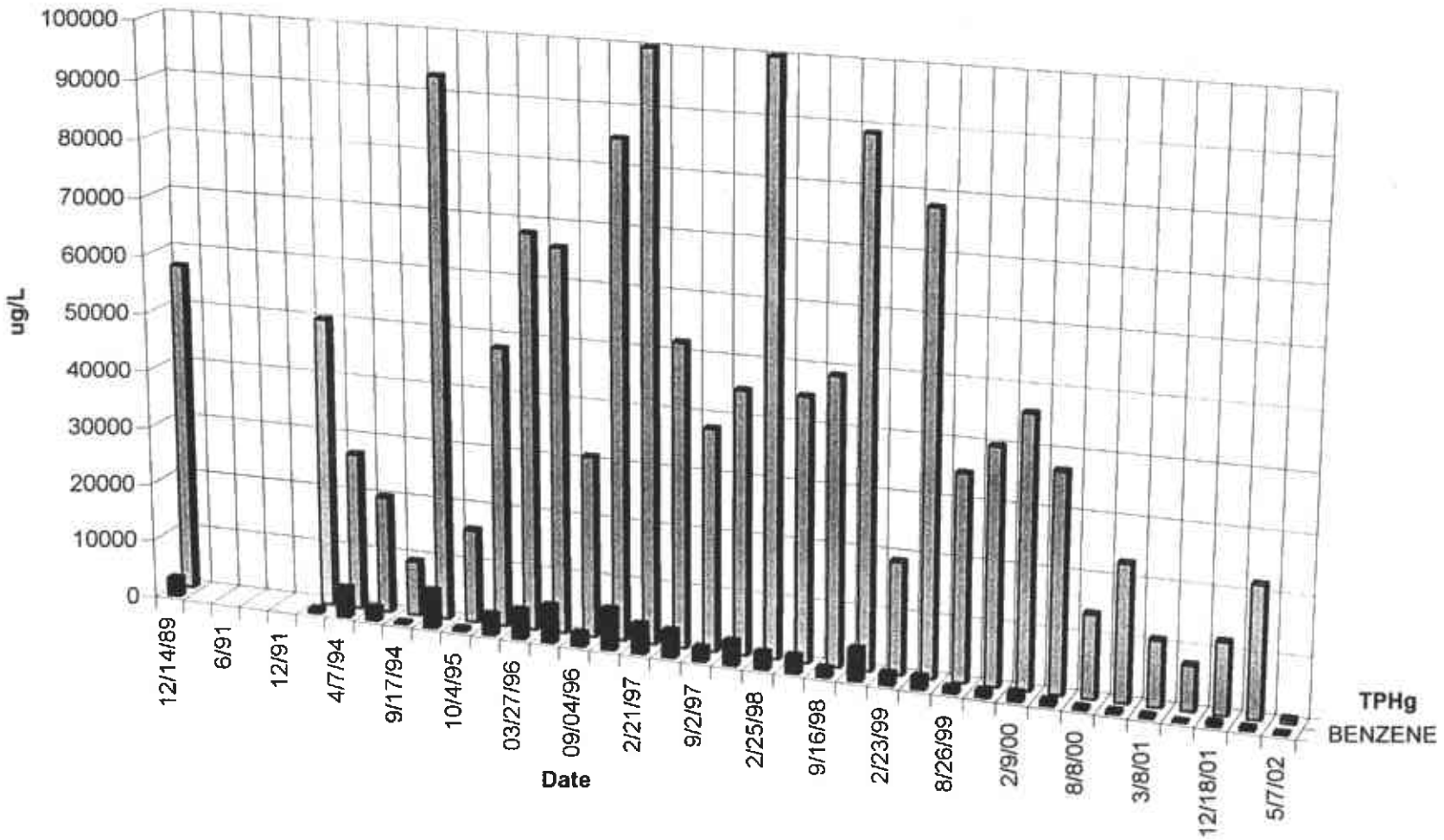
2/9/00
6/30/00
8/8/00
11/16/00
3/8/01
5/31/01
12/18/01
2/19/02
5/7/02
Date
TPHg
BENZENE

RS-5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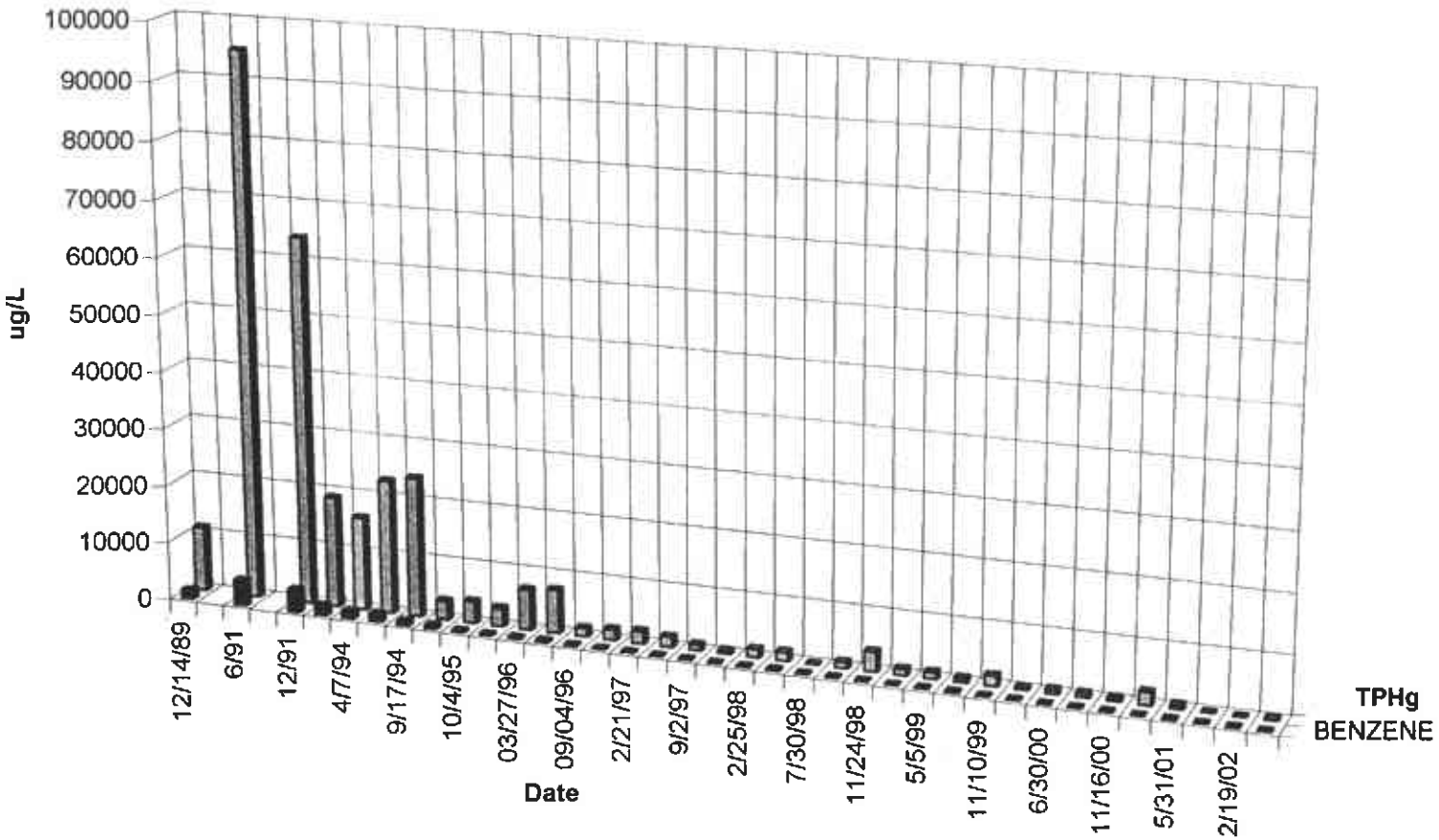
TPHg
BENZENE

RS-6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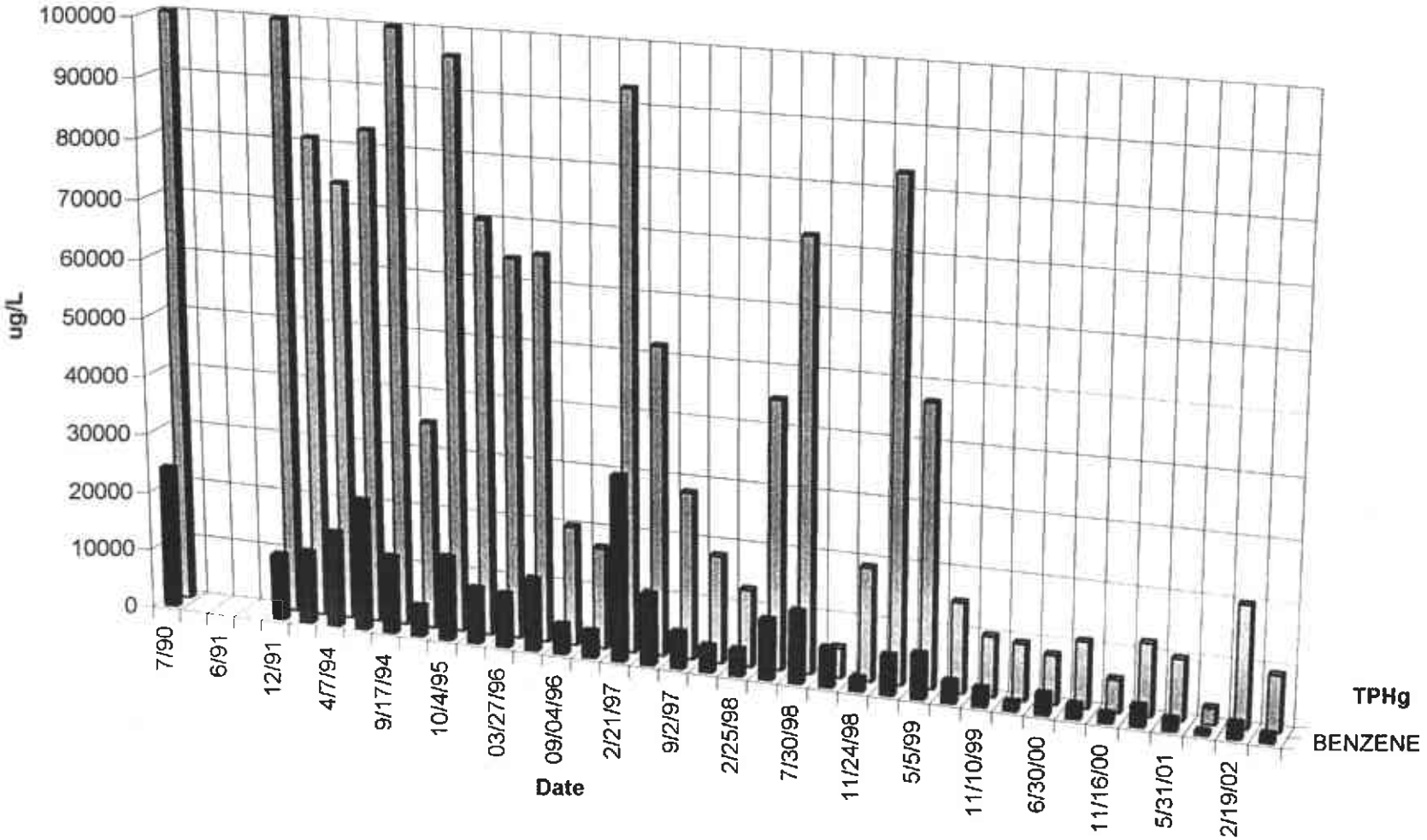
TPHg
BENZENE

RS-7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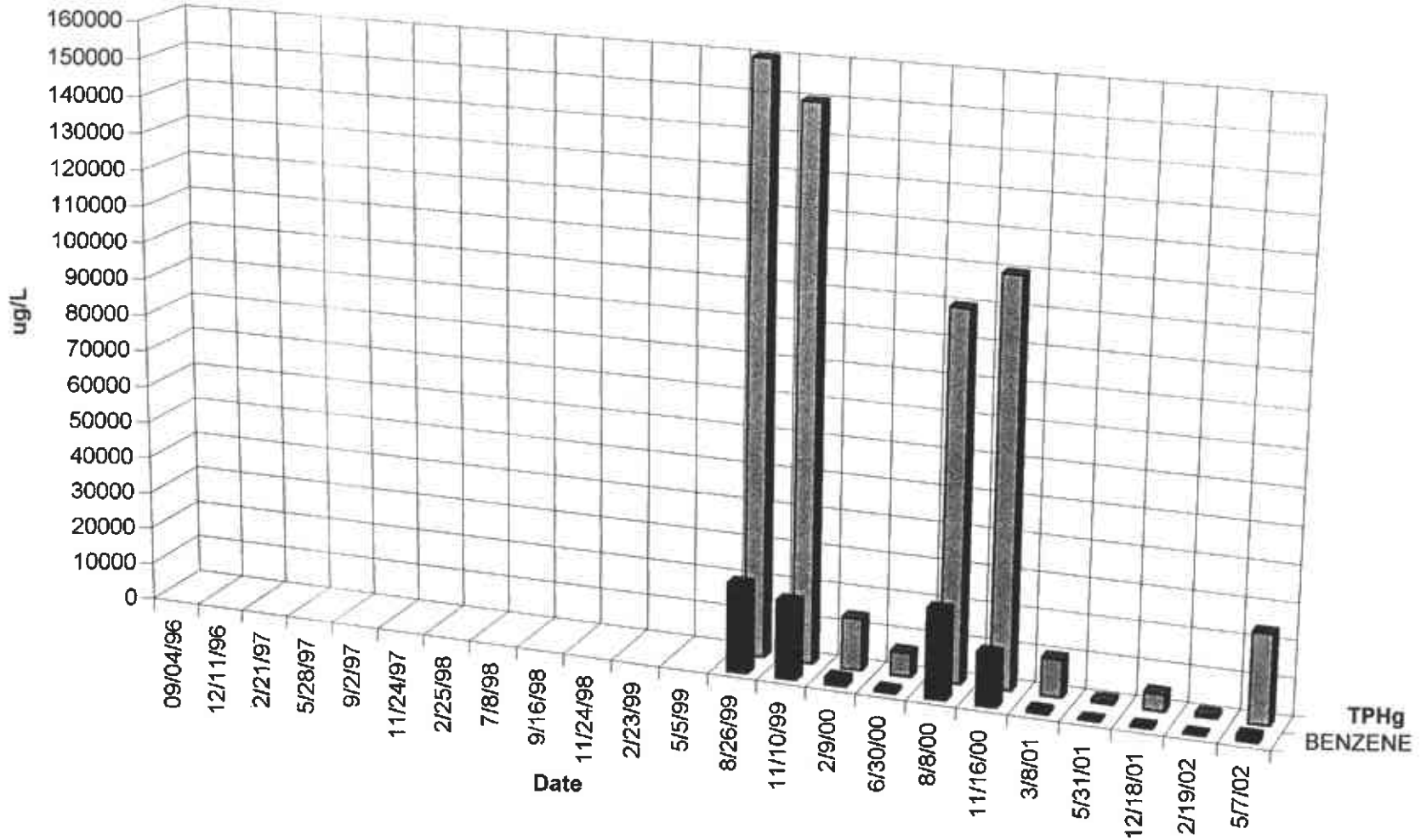
BENZENE

RS-8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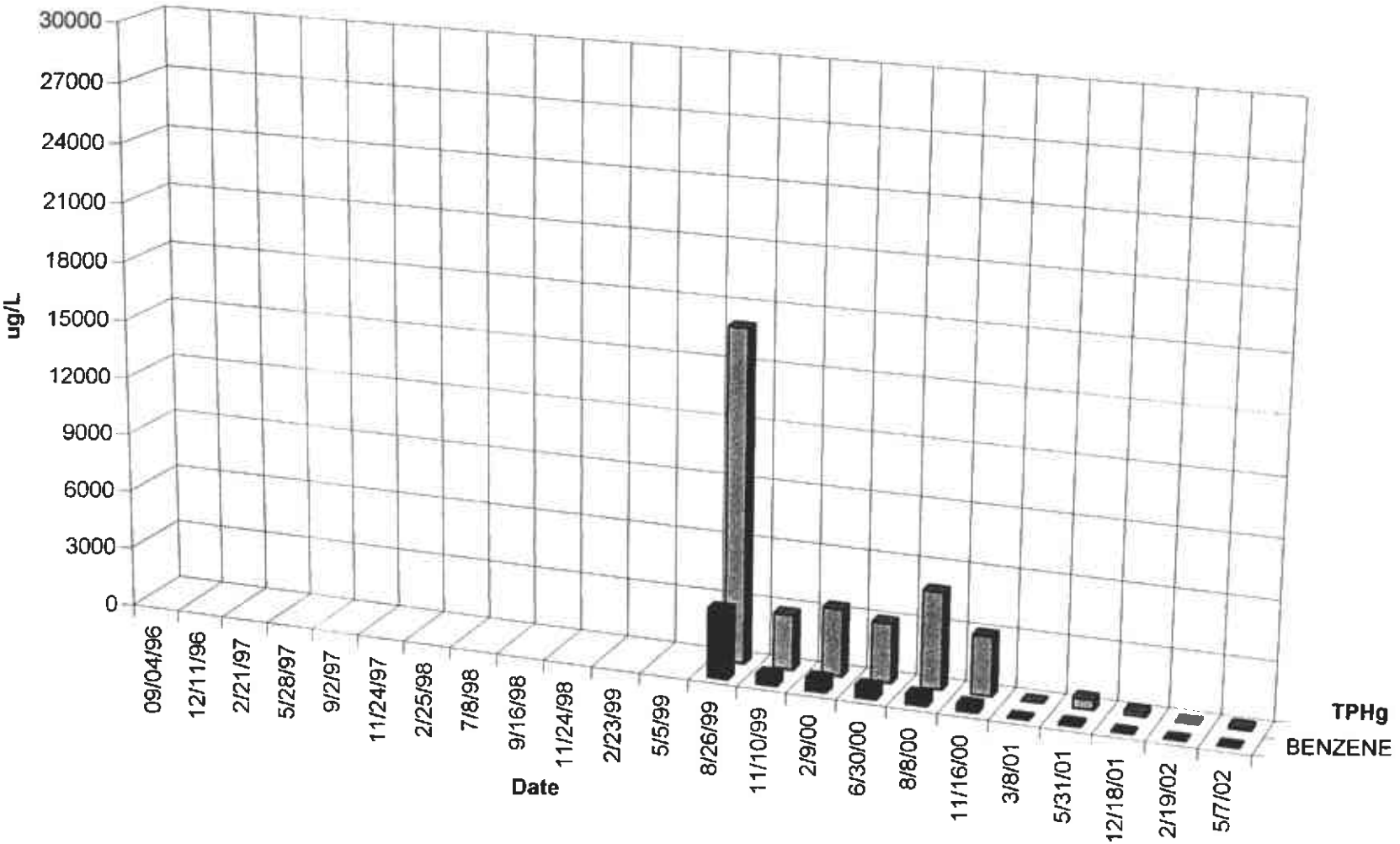
BENZENE

RS-9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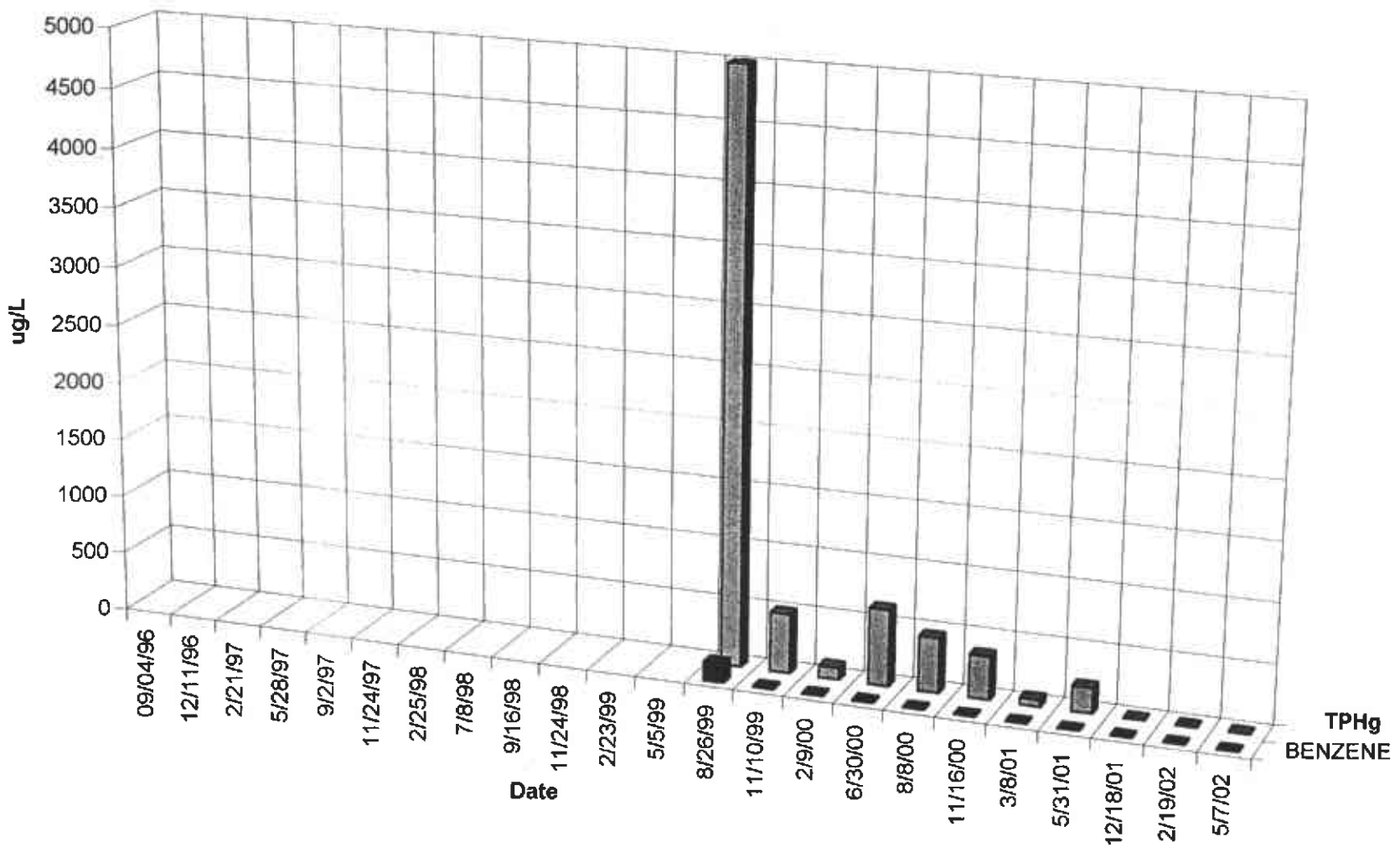
BENZENE

RS-10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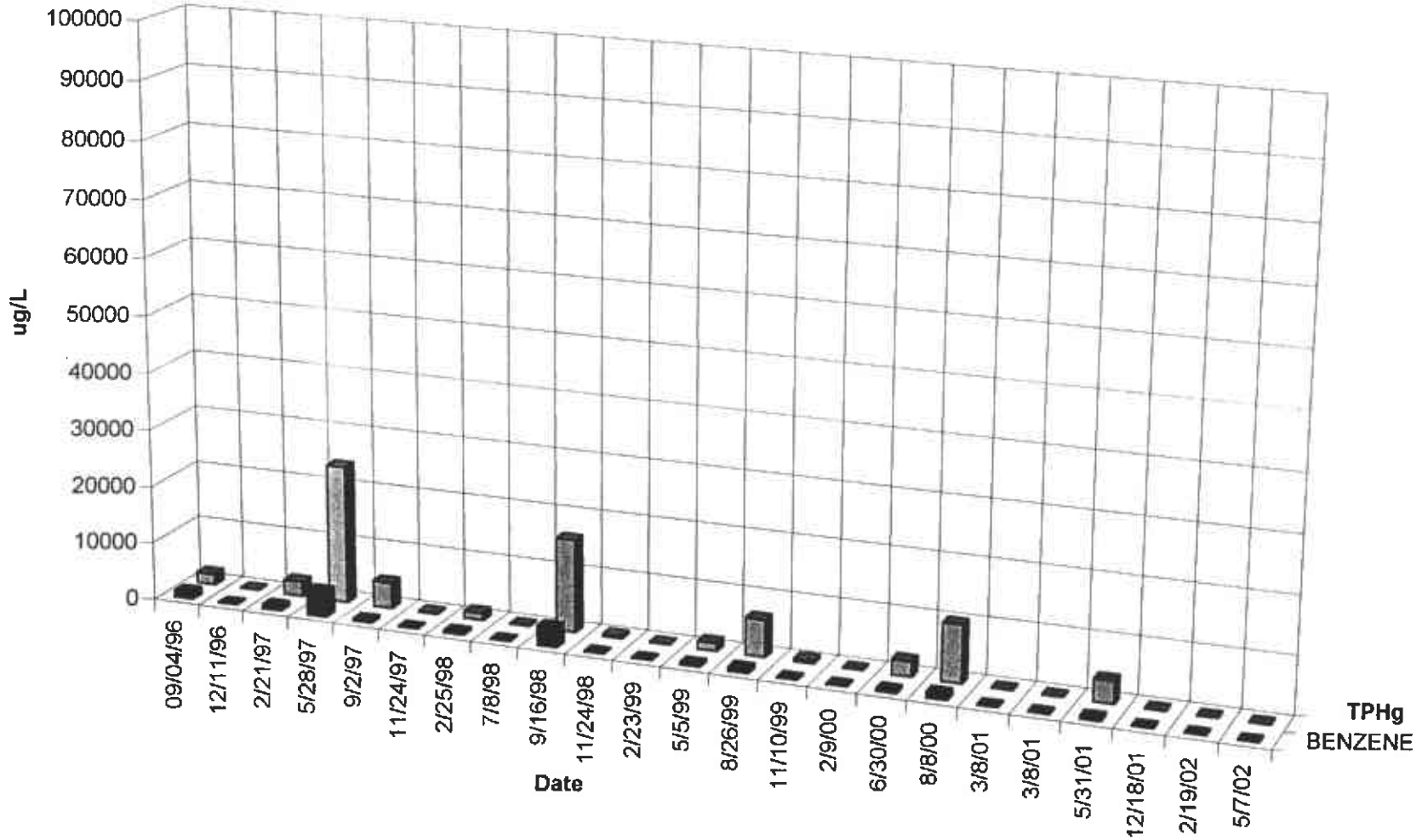
BENZENE

R-1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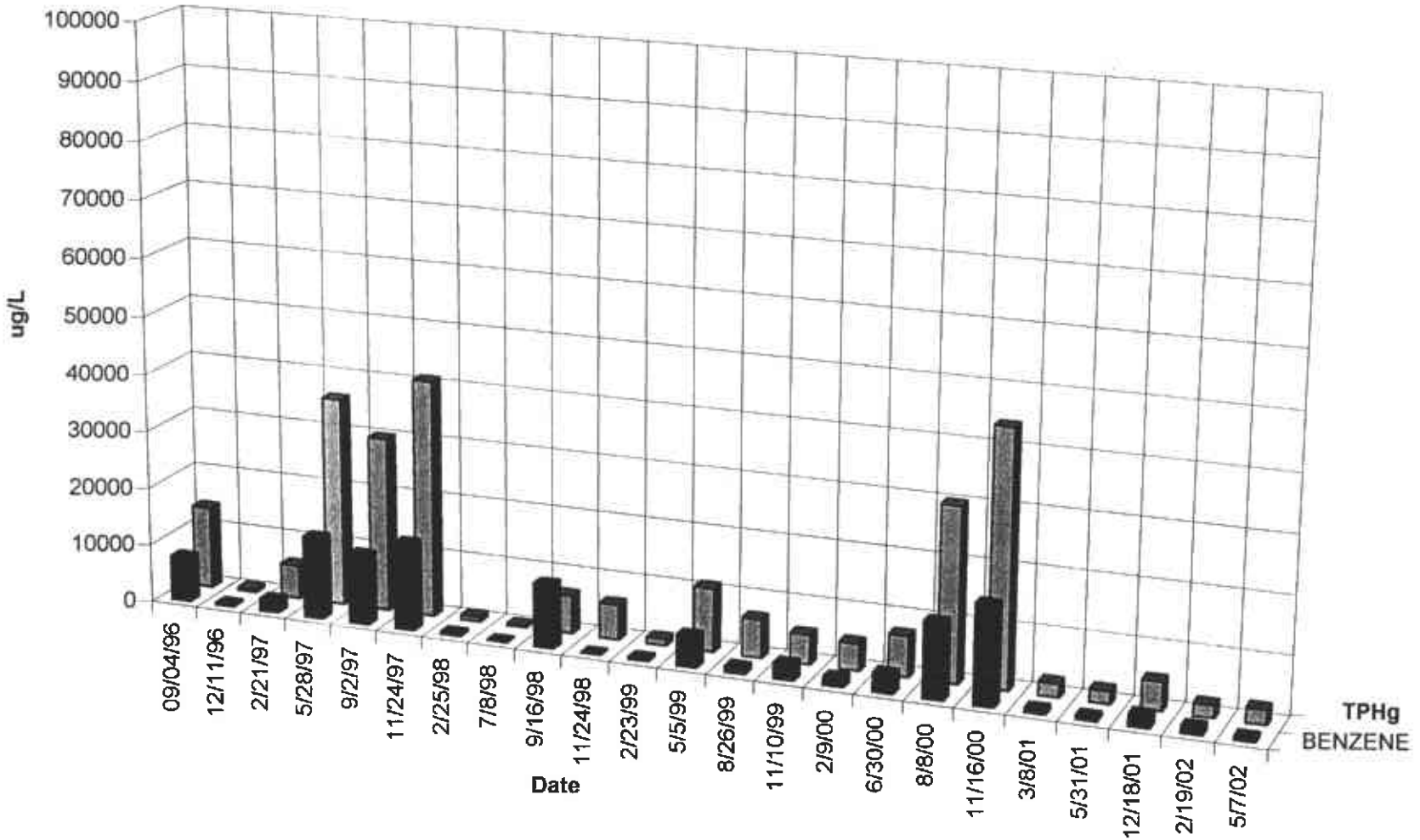
R-2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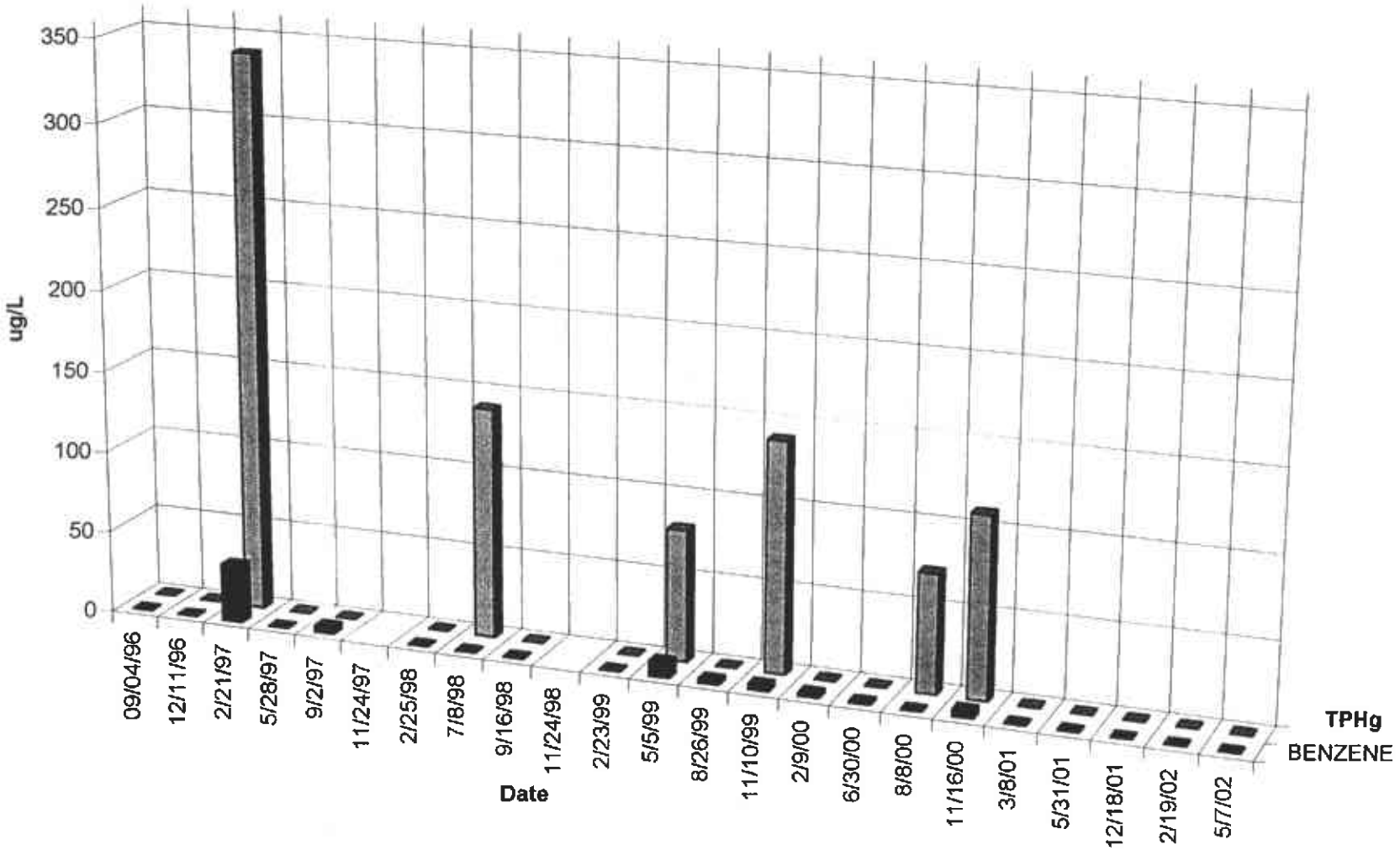
BENZENE

R-3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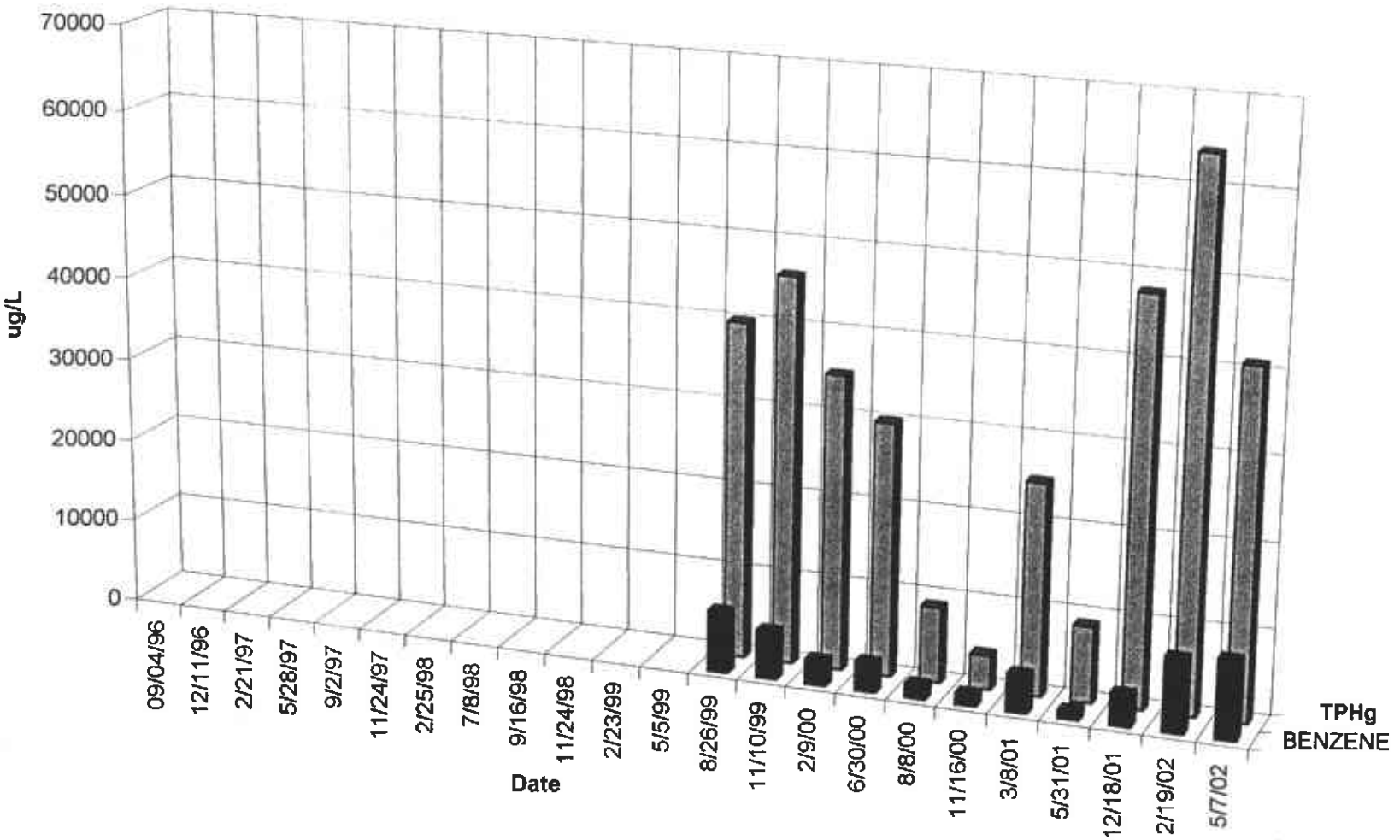
T-1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BENZENE

APPENDIX E

WASTEWATER DISCHARGE REPORT

desert petroleum inc.

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

June 12, 2002

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

Dear Ms. Ong:

The enclosed table and certified laboratory report represents the sampling for wasterwater Discharge Permit #5043550 1 for the period between March 13, and June 12, 2002. Continues discharge from pumping at RS-5 was discontinued on July 19, 2001. This pumping was restarted on March 21, 2002 and is continuing as of this date. A sample of the water discharged to sewer was obtained on May 7, 2002 and analyzed for TPHg, BTEX and MtBE using EPA method 8260B.

All discharge conditions have been met.

CERTIFICATION East Bay Municipal Utility District, Permit #5043550 1

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

Signature Bill Thompson 6/14/02
date

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

WASTEWATER SOURCE ID	DATE	METER READING IN GALLONS #35635668 314110	NEW METER IN GALLONS #47083426	GALLONS DISCHARGED BETWEEN VISITS	ACCUMULATIVE GALLONS DISCHARGED	AVERAGE DISCHARGE PER MINUTE IN GALLONS	EPA METHOD 624 BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	7420 LEAD ug/L
F1 (PSP No. 1)	6/6/01		1204217.2	4569	112897	0.53					
F1 (PSP No. 1)	6/14/01		1210661.4	6444	119341	0.56					
F1 (PSP No. 1)	6/21/01		1214600	3939	123280	0.39					
F1 (PSP No. 1)	6/28/01		1219387.7	4788	128068	0.47					
F1 (PSP No. 1)	7/5/01		1223625.4	4238	132305	0.42					
F1 (PSP No. 1)	7/12/01		1228500	4875	137180	0.48	EPA METHOD 8260B				
F1 (PSP No. 1)	7/19/01		1232750.7	4251	141431	0.42	<0.5	<0.5	<0.5	<0.5	
REMOVE PUMP AND DISCONTINUE SEWER DISCHARGE ON July 19, 2001, COMMENCE 1/4LY DISCHARGE											MTBE
F1 (PSP No. 1) 1/4LY SAMPLES	12/18/01			238	141669	5.00	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1) 1/4LY SAMPLES	2/19/02			246	141915	5.00	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	3/21/02		1235760	0	141915	2.00	place pump back into RS-5				
F1 (PSP No. 1)	3/27/02		1243817.8	8058	149973	0.93					
F1 (PSP No. 1)	4/11/02		1259678.6	15861	165833	0.73	<0.5	<0.5	<0.5	<0.5	<0.5
F1 (PSP No. 1)	5/7/02		1283903.1	24225	190058	0.65					
F1 (PSP No. 1)	6/6/02		1308480	24577	214635	0.57					

< 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.

KIFF ANALYTICAL LLC

Report Number : 26304
Date : 5/15/2002

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

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

Dear Mr. Converse,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 26304
Date : 5/15/2002

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

Sample : **CARBON DISCHARGE** Matrix : Water Lab Number : 26304-01
Sample Date :5/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	92.1		% Recovery	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	5/12/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

QC Report : Method Blank Data

Project Name : **DP793**

Project Number : **DP793**

Report Number : 26304

Date : 5/15/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	5/12/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	5/12/2002
Toluene - d8 (Surr)	91.3		%	EPA 8260B	5/12/2002
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	5/12/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 26304

Date : 5/15/2002

Project Name : **DP793**

Project Number : **DP793**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	26321-01	3.8	40.0	40.0	39.5	38.6	ug/L	EPA 8260B	5/12/02	89.2	87.0	2.44	70-130	25
Toluene	26321-01	<0.50	40.0	40.0	34.8	34.2	ug/L	EPA 8260B	5/12/02	87.0	85.5	1.80	70-130	25
Tert-Butanol	26321-01	1700	200	200	1820	1930	ug/L	EPA 8260B	5/12/02	39.8	95.9	82.7	70-130	25
Methyl-t-Butyl Ether	26321-01	220	40.0	40.0	252	252	ug/L	EPA 8260B	5/12/02	84.2	83.2	1.28	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Report Number : 26304
Date : 5/15/2002

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

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	5/12/02	95.4	70-130
Toluene	40.0	ug/L	EPA 8260B	5/12/02	93.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	5/12/02	98.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	5/12/02	90.4	70-130

KIFF ANALYTICAL, LLC
720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

Lab No. 26304 Page ____ of ____

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): George Converse

Company/Address: WEGE 1386 Beamer Woodland CA 95776

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

Project Number: DP793 P.O. No:

Project Name: DP 793

Project Address: 4035 Park Blvd Oakland

California EDF Report? ☐ Yes ☐ No

Recommended but not mandatory to complete this section:

Sampling Company Log Code: WGEW

Global ID: T0660100158

EDF Deliverable To (Email Address): wege@mother.com

Sampler Signature: [signature] Broadway

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Container: SLEEVE			Preservative: HCl	Preservative: HNO_3	Preservative: ICE	Preservative: NONE	Matrix: WATER	Matrix: SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)					TAT: 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only
Carbon discharge	5/7/02	1258	3				✓		✓		✓						✓													✓ (1 wk)	01

Relinquished by:	Date	Time	Received by:
[signature] Broadway	5/9/02	1545	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	050902	1545	Michelle Woodward / Kiff Analytical

Remarks:

Bill to:

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

Forms/coc 121001.fh9

EAST BAY MUNICIPAL UTILITY DISTRICT

NOTIFICATION OF EBMUD TEST RESULTS

DAVID R. WILLIAMS
DIRECTOR OF WASTEWATER

June 5, 2002

DESERT PETROLEUM, INC.
P.O. Box 1601
Oxnard, CA 93032

Attention: George Converse

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

East Bay Municipal Utility District (EBMUD) inspected the subject facility and sampled the wastewater discharge on April 11, 2002. The measured parameters are in compliance with your Wastewater Discharge Permit.

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

Date	SS	Sample No.	Type	Parameter	Result
04/11/02	No. 1	L96466-1	grab	Benzene	< 0.00005
04/11/02	No. 1	L96466-1	grab	Ethyl Benzene	< 0.00008
04/11/02	No. 1	L96466-1	grab	Toluene	< 0.00007
04/11/02	No. 1	L96466-1	grab	Total Xylenes	< 0.00033

Note: All units are mg/L .

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

Sincerely,

Molly Ong

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

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

EBMUD Laboratory
Analytical Report

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

RECEIVED
APR 30 2002
SOURCE CONTROL DIVISION

Laboratory Report - L96466

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

Report generated on: Apr 26, 2002 10:00 pm

Please route this report to:

KENNETH GERSTMAN

WILLIAM M. ELLGAS 4/29/02

Client PM: MOLLY ONG

Samples included in this report:

Sample	Collected	Site	Locator	ClientID
L96466-1	11-Apr-2002 10:15	GW S	DP793 GW 1	-

Legend to the laboratory qualifiers used in this report:
U - Analyte not detected

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

Analytical Results Report

LIMS#: B941-0001-1 Desert Petroleum - DP793 GW 1 gw-lc
Site: IW S Industrial Waste - South Interceptor
[redacted]: DP793 GW 1 Desert Petroleum, Inc., #5043550 1 located at 4035 Park Boulevard, Oakland, Side
[redacted]: L96466-1
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Apr 11 2002, 10:15am Sample collector: A COMEAUX
Date Received: Apr 11 2002, 01:50pm Sample receiver: PTRUONG
Sample Comments: SAMPLER CLEAR & ODORLESS

Method Reference / Parameter	Qualifier	Result	Matrix Units	Tag Dilution	MDL	RL/ML
TRANS-1,3-DICHLOROPROPENE	U	0.020	ug/L	1.0	0.020	
ETHYLMETHACRYLATE	U	0.50	ug/L	1.0	0.50	
1,1,2-TRICHLOROETHANE	U	0.030	ug/L	1.0	0.030	
TETRACHLOROETHENE	U	0.11	ug/L	1.0	0.11	
1,3-DICHLOROPROPANE	U	0.070	ug/L	1.0	0.070	
2-HEXANONE	U	0.10	ug/L	1.0	0.10	
DIBROMOCHLOROMETHANE	U	0.060	ug/L	1.0	0.060	
ETHYLENE DIBROMIDE	U	0.10	ug/L	1.0	0.10	
CHLOROBENZENE	U	0.050	ug/L	1.0	0.050	
1,1,1,2-TETRACHLOROETHANE	U	0.030	ug/L	1.0	0.030	
ETHYL BENZENE	U	0.080	ug/L	1.0	0.080	
M-P XYLENES	U	0.22	ug/L	1.0	0.22	
O-XYLENE	U	0.11	ug/L	1.0	0.11	
STYRENE	U	0.080	ug/L	1.0	0.080	
BROMOFORM	U	0.10	ug/L	1.0	0.10	
ISOPROPYLBENZENE	U	0.11	ug/L	1.0	0.11	
BROMOBENZENE	U	0.080	ug/L	1.0	0.080	
TRANS-1,4-DICHLORO-2-BUTENE	U	0.50	ug/L	1.0	0.50	
1,1,2,2-TETRACHLOROETHANE	U	0.11	ug/L	1.0	0.11	
1,2,3-TRICHLOROPROPANE	U	0.080	ug/L	1.0	0.080	
N-PROPYLBENZENE	U	0.090	ug/L	1.0	0.090	
2-CHLOROTOLUENE	U	0.12	ug/L	1.0	0.12	
4-CHLOROTOLUENE	U	0.080	ug/L	1.0	0.080	
1,3,5-TRIMETHYLBENZENE	U	0.18	ug/L	1.0	0.18	
[redacted]TTYLBENZENE	U	0.080	ug/L	1.0	0.080	
HEXACHLOROETHANE	U	0.20	ug/L	1.0	0.20	
1,2,4-TRIMETHYLBENZENE	U	0.35	ug/L	1.0	0.35	
SEC-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10	
1,3-DICHLOROBENZENE	U	0.060	ug/L	1.0	0.060	
P-ISOPROPYLTOLUENE	U	0.080	ug/L	1.0	0.060	
1,4-DICHLOROBENZENE	U	0.040	ug/L	1.0	0.040	
1,2-DICHLOROBENZENE	U	0.050	ug/L	1.0	0.050	
N-BUTYLBENZENE	U	0.10	ug/L	1.0	0.10	
BIS(2-CHLOROISOPROPYL)ETHER	U	0.60	ug/L	1.0	0.60	
HEXACHLOROETHANE	U	1.0	ug/L	1.0	1.0	
DIBROMOCHLOROPROPANE	U	0.47	ug/L	1.0	0.47	
NITROBENZENE	U	20	ug/L	1.0	20	
1,2,4-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11	
HEXACHLOROBUTADIENE	U	0.12	ug/L	1.0	0.12	
NAPHTHALENE	U	0.10	ug/L	1.0	0.10	
1,2,3-TRICHLOROBENZENE	U	0.11	ug/L	1.0	0.11	
INTERNAL STANDARD						
FLUOROBENZENE		79.8	% recovery	1.00		
1,4-DICHLOROBENZENE		82.2	% recovery	1.00		
SURROGATE PARAMETERS		72.0	% recovery	1.00		
DIBROMOFLUOROMETHANE		100	% recovery	1.00		
1,2-DICHLOROETHANE		106	% recovery	1.00		
D8-TOLUENE		99.2	% recovery	1.00		
4-BROMOFLUOROBENZENE		86.2	% recovery	1.00		

Batch ID: R103040 / Work Group No.: WG92983
Prep Date: 18-APR-02 Analyzed 18-APR-02

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

East Bay Municipal Utility District
Laboratory Service[illegible]ain of Custody Record

relog or
ogin No.: L96466

Project Title
Desert Petoleum - DP793 GW 1 gw-lo
Account or Project: 8941-0001-1

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

Sampled by: A COMEAUX
Rcvd: 11-APR-02 13:50
Sample Date: 11-APR-02

ab o.	Sample Type	Time	Site	Locator	Sample Matrix	Container ID Barcode	Tests Required	Date Preservative	Initials	DueDate pH
96466-1	GRAB	10:15	IW-S	DP793 GW 1	WasteH2O	373802	VOA4A 624 (EPA 624)			02-MAY-02
					WasteH2O	373803	VOA4A 624 (EPA 624)			
					WasteH2O	373804	VOA4A 624 (EPA 624)			
					WasteH2O		+REPORT			

lientID: Sample Comments: SAMPLER CLEAR & ODORLESS

Total containers received: 3

	Signature	Print Name	Time	Date
elinquished by				
eceived by				
elinquished by				
eceived by				
elinquished by				
eceived by		Paula T Truong	13:50	11-APR-02

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

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Login No:	Project Title: Desert Petroleum	Client PM: Molly Ong	Sampled by: Audrey L. Comeaux
L96466	Account: 504-35501	Tel No: 287-1618	
	LSR# B941-0001-1	Lab PM: ~~Sue Berg~~ Yun G	Sample Date: 4-11-02

Lab No.	Sample Type	Collection Date/Time	Site	Locator	Sample Matrix	C	P	No. Cont/type	Tests Required	Comments/Remarks
	Grab	4-11-02 1015 hours	IW S	DP793GW	02				EPA 624 + REPORT	Sample clear + odorless

	Signature	Print Name	Time	Date	Comments
Relinquished by:	A Comeaux	Audrey L. Comeaux	1405	4-11-02	
Received by:					
Relinquished by:					
Received by:					
Relinquished by:					
Received by:	Paula Truong	PAULA TRUONG	1405	11 APR 02	

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

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

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