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Mr. John Rutherford
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November 29, 2000

Dear Mr. Rutherford:

The following report documents the Fourth Quarter 2000 collection and certified laboratory analysis of groundwater samples from eight monitoring wells (MW1, RS2, RS5, RS6, RS7, RS8, RS9-and RS10), three water recovery/injection wells (R1, R2 and R3) and the receptor trench well (T1) associated with former Desert Petroleum Station #793.

1.0 SITE LOCATION AND DESCRIPTION

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).

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.

2.1.2 Backyard Sewer Lateral Route

Assessments performed along the sewer lateral as it leaves the site and routes through the residentual area towards Brighton Avenue show the subsurface to consists of fill from a couple of inches thick to two feet thick. Beneath the fill is a sequence of clay formations that vary in color 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.

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.

3.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES, NOVEMBER 16, 2000

The fourth quarter sampling occurred on November 16, 2000. Water samples were collected from wells R1, R2, R3, MW1, RS-2, RS-5, and RS-6 located on-site and RS-7, RS-8, RS-9, RS-10 and T1 located offsite in the backyards and along Brighton Avenue northeast of the site (Figure 3), see Table 1. Appendix A contains QA/QC, details, methods, procedures, abbreviations, and acronyms used in sampling and analysis.

3.1 Depth to Water Measurements

Depth to water was measured at each well using a product/water interface probe. Measurements are referenced to the surveyed elevation at the top of casing at each well. Table 1 shows the elevation of groundwater with respect to mean sea level for all wells through November 16, 2000.

3.2 Purging of Monitor Wells

David Pittman Well Purge (DPWP), using a truck mounted vacuum lift pump and one-inch diameter PVC tubing purged the monitor wells of three volumes of water. The specific volume of water removed from each well is recorded on the well sampling data sheets (Appendix A).

3.3 Collection and Certified Analysis of Groundwater Samples

After purging, the wells were allowed to recover to at least 80% of their original well volumes. A groundwater sample was then collected from each well with a disposable polyethylene bailer and decanted, with no headspace, into two 40 ml VOA vials containing 0.5 ml HCL acid as a preservative. North State Environmental Laboratories analyzed all water samples for

concentrations of TPH-G, BTEX, and MTBE using EPA methods 5030/8015M/8020 (Appendix C). **On December 7,1989, this site ceased operation and all fuel was removed**. Presence of MTBE by Method 8020 from the November 24, 1998 sampling was verified with EPA Method 8260. This most recent sampling showed the absence of MTBE in all wells sampled (August 8, 2000). The November 24, 1998 was the first occurrence of MTBE and was associated with the upgradient wells MW-1 and RS-2. This indicates an upgradient source for the MTBE may exist. Previous sample results and the February 23, 1999 sample results showed all wells below laboratory lower detection limits for MTBE using standard methods and the September 1998 samples from all wells were also analyzed for the Fuel Oxygenants using EPA Method 8260. All wells tested below laboratory lower detection limits.

Fuel Oxygenants (Method 8260)	Laboratory Lower Detection Limits
Ethanol	500 ug/L
Methyl-t-Butyl Ether (MTBE)	1 ug/L
Di Isopropyl Ether (DIPE)	5 ug/L
Tertiary Butyl Alcohol (TBA)	5 ug/L
Ethyl t Butyl Ether (ETBE)	5 ug/L
t-Amyl Methyl Ether (TAME)	1 ug/L

Appendix D contains a chart comparing the amount of MTBE found in wells MW1, RS2, RS5, RS6 and RS7 versus time. This chart indicates two major occurrences of MTBE, the winter of 1996 and the summer of 1999.

3.4 Disposition of Waste Water

The wastewater generated from the purging of the monitor wells during sampling was pumped through two, in series, activated water carbon units and then to the on-site sanitary sewer (wastewater discharge permit # 5043550 1). As of November 22, 2000 36,439 gallons of treated groundwater have been discharged to East Bay Municipal Utility District sewer system, under the permit, see Table 2 and Appendix B. Previous purged well water was removed from the site and transported to a recycling facility, by Evergreen Environmental Services.

4.0 RESULTS OF QUARTERLY GROUNDWATER MONITORING

4.1 Groundwater Gradient and Flow Direction

Figure 4A shows the groundwater elevation gradients and flow direction that were derived from the depth to water measurements of the monitor wells on November 16, 2000. Table 1 with charts 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 0.25 feet/linear foot downgradient from the overexcavated area at the site, see Figure 4A. The current flow direction and hydraulic gradient are consistent with previous determinations by WEGE.

4.2 Results of Certified Analysis of Groundwater Samples

The results of the certified analyses of groundwater samples collected on November 16, 2000 are shown in Table 1 and Figure 4B. Copies of the laboratory reports are included as Appendix C of this report.

TPH-G concentrations in water samples from the eight monitor wells, the receptor trench well and three recovery wells ranged from a maximum of 110 mg/l at RS8, to below laboratory lower detection limits of 50 ug/L in wells MW1, and RS2 respectively. Benzene concentrations ranged from a maximum of 17 mg/L in R2to below the laboratory lower detection limits (0.5 ug/L) at wells MW1 and RS2.

Analysis results for Oxygenant Methyl-t-Butyl Ether (MTBE) was below the laboratory lower detection limit (0.5 ug/L) in all wells sampled. 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 4B shows the areal distribution of the hydrocarbon plume in groundwater as determined from groundwater samples collected from the monitor wells and from non-certified results from the Soil Probe Surveys.

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 2. 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. As of November 22, 2000, 36,439 gallons of contaminated groundwater have been removed from the trench, processed through two in series activated carbon water scrubs and discharged to the sanitary sewer. The weekly purging of the receptor trench will continue until a conduit can be placed along Park Avenue and Brighton Avenue connected the T1 well (receptor trench) to the treatment compound. This will allow the placement of a submersible pump into T1 that will continuously pump at 2 gpm, removing an estimated 20,000 gallons of contaminated water weekly, instead of the 700 to 1600 gallons currently being recovered on a weekly bases.

6.0 WEEKLY NUTRIENT AUGMENTATION

Presently there is no nutrient augmentation into any wells associated with this site. Nutrient augmentation will commence once the workplan presented with the Third Quarter 2000 Report has been approved. The workplan proposes to introduce fifty gallons of nutrient enriched water (consisting of 15 pounds of sodium hexametaphosphate and 15 pounds of ammonium sulfate) into well R3. Prior to introduction of the nutrient enriched water, wells R1, R2, R3, RS8, RS9, RS10 and T1 will be field screened for the presence of dissolved oxygen, reactive phosphorus, sulfate and nitrogen using the Hach DR/2000 Spectrophotometer. Four hours after introduction of the five

gallons of nutrients into R3, wells R1, R2 and R3 will be sampled and field screened for reactive phosphorus, sulfate and nitrogen using the Hach DR/2000 Spectrophotometer. Thereafter weekly measurements will be obtained from R1, R2 and T1 and monthly measurements from RS8, RS9 and RS10, see Third Quarter 2000 report dated August 29, 2000 Appendix E – Nutrient Augmentation Workplan, Appendix F-Scope News Letter, Appendix G-MSDS, and Appendix H – Hach field procedures.

7.0 SUMMARY

Since the installation and weekly purging of the receptor trench (T1) TPHg concentrations in down gradient well RS-7 have decreased along with the depth to groundwater, see Table 1 with charts RS-7. The weekly purging of the receptor trench is 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.

8.0 RECOMMENDATIONS

- Solicit bids to:
  Construct a subsurface 4-inch diameter conduit connecting the receptor trench to the treatment compound along the curb areas of Brighton and Park Avenues;
  Supply electrical power to the treatment compound;
  Connect the treatment compound components to the electrical power supply;
  And install a submersible pump with a no load sensor into T1 and connect the pump and discharge line to the treatment compound via the 4-inch diameter conduit;
- Continue the weekly four hour purge of T1 until the above pump system has been installed.
- Start augmentation of nutrients (sodium hexametaphosphate and ammonium sulfate) into well R3
- Perform monthly field measurements of dissolved oxygen, phosphate, sulfate and nitrogen at R1, R2, RS8, RS10, T1 and RS9.

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

REGISTERED GEOLOGIST
JACK E. NAPPER
No. 3037
STATE OF CALIFORNIA

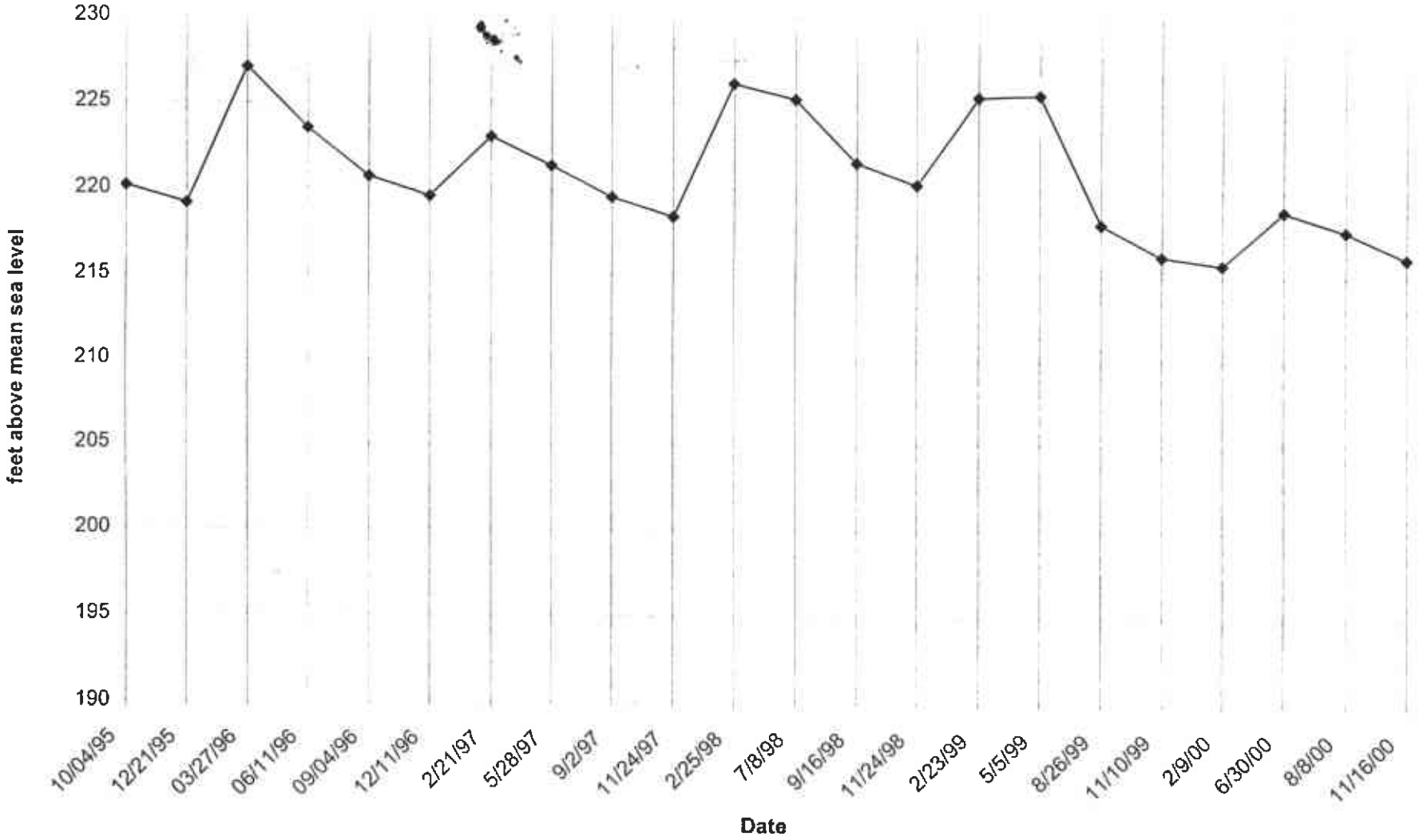
Jack E. Napper
Ca. Reg. Geologist #3037

cc: Mr. Tom Peacock, Alameda County Health (510) 567-6774
Mr. Leroy Griffin, Oakland Fire Dept.

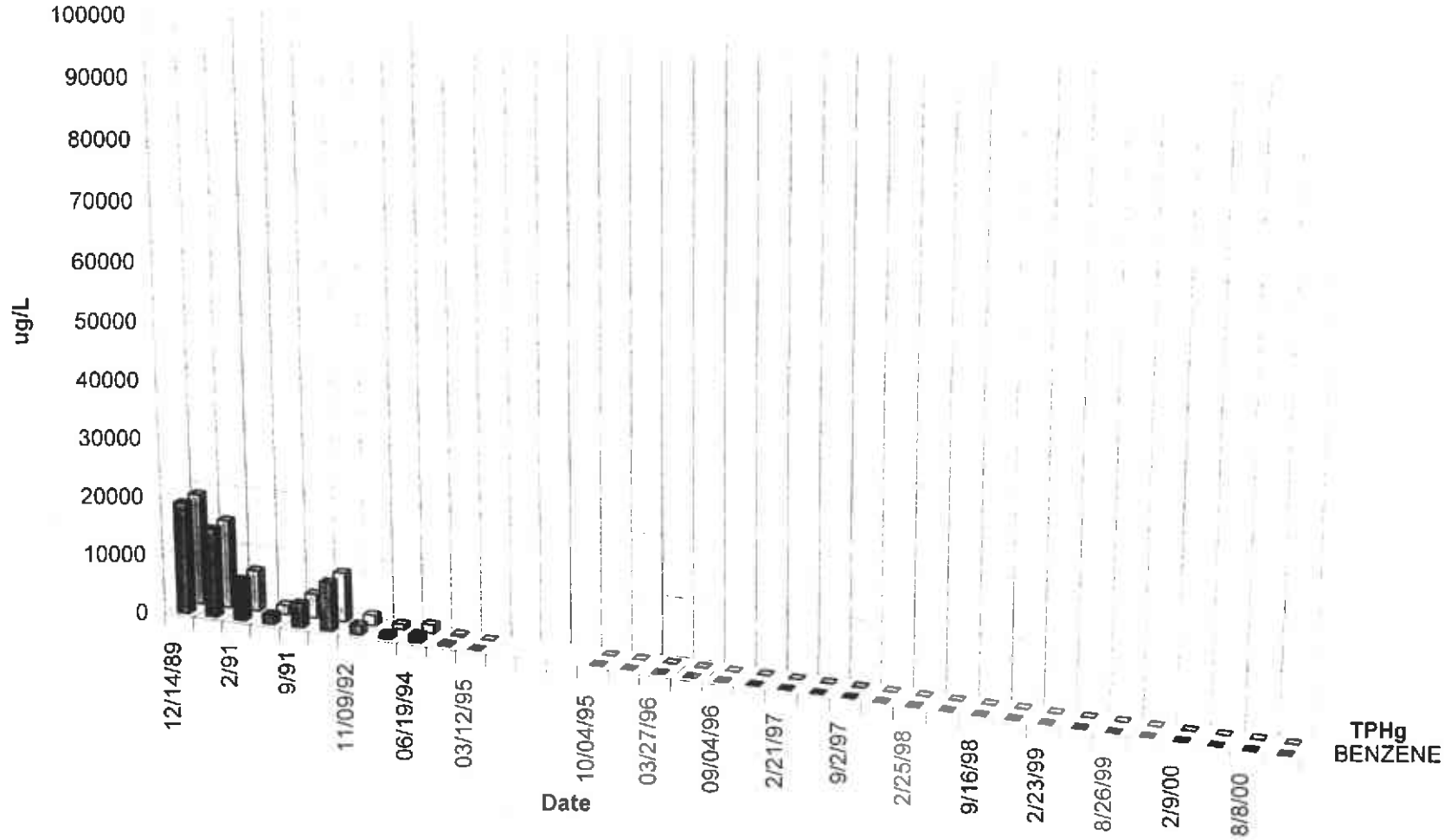
TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

ID#	(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)
RS-1	12/14/89	240	24.25	215.75		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	180,000	12	26	
RS-1	9/91					4100	730	7.6	5.1	24	
RS-1	12/91					8300	950	160	71	190	
RS-1	11/09/92	100.18	17.05	83.13		1700	730	9.6	16	14	
RS-1	04/07/94	100.18	13	87.18		860	84	12	16	110	
RS-1	06/19/94	228.15	13.37	214.78		1400	150	12	52	87	
RS-1	09/17/94	228.15	16.33	211.82		310	30	1.8	2.8	3.9	
RS-1	03/12/95	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	10/04/95	232.57	12.38	220.19		ND	ND	ND	ND	ND	
MW-1	12/21/95	232.57	13.40	219.17		< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MW-1	03/27/96	232.57	5.53	227.04		< 50	< 0.5	< 0.5	< 0.5	< 2	< 50
MW-1	06/11/96	232.57	9.02	223.55		< 50	< 0.5	< 0.5	< 0.5	< 2	< 50
MW-1	09/04/96	232.57	11.84	220.73		< 50	< 0.5	< 0.5	< 0.5	< 2	< 5
MW-1	12/11/96	232.57	12.98	219.59		< 50	< 0.5	0.9	< 0.5	< 1	< 0.5
MW-1	2/21/97	232.57	9.50	223.07		< 50	< 0.5	0.9	< 0.5	< 1	< 0.5 *
MW-1	5/28/97	232.57	11.18	221.39		< 50	3	3	< 0.5	< 1	< 0.5 *
MW-1	9/2/97	232.57	13.00	219.57		< 50	5	< 0.5	< 0.5	< 1	< 0.5 *
MW-1	11/24/97	232.57	14.12	218.45		< 50	5	< 0.5	< 0.5	< 1	< 0.5 *
MW-1	2/25/98	232.57	6.41	226.16		< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5 *
MW-1	7/8/98	232.57	7.28	225.29		< 50	< 0.5	< 0.5	< 0.5	< 1	< 1 *
MW-1	9/16/98	232.57	10.96	221.61		< 50	< 0.5	< 0.5	< 0.5	< 1	< 1 *
MW-1	11/24/98	232.57	12.24	220.33		52	2.3	5.2	< 0.5	5.4	11 *
MW-1	2/23/99	232.57	7.14	225.43		< 50	< 0.5	5	< 0.5	< 1	< 0.5
MW-1	5/5/99	232.57	7.00	225.57		< 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 Groundwater Elevation



RS-1/MW-1 TPHg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09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
Date
TPHg
BENZENE

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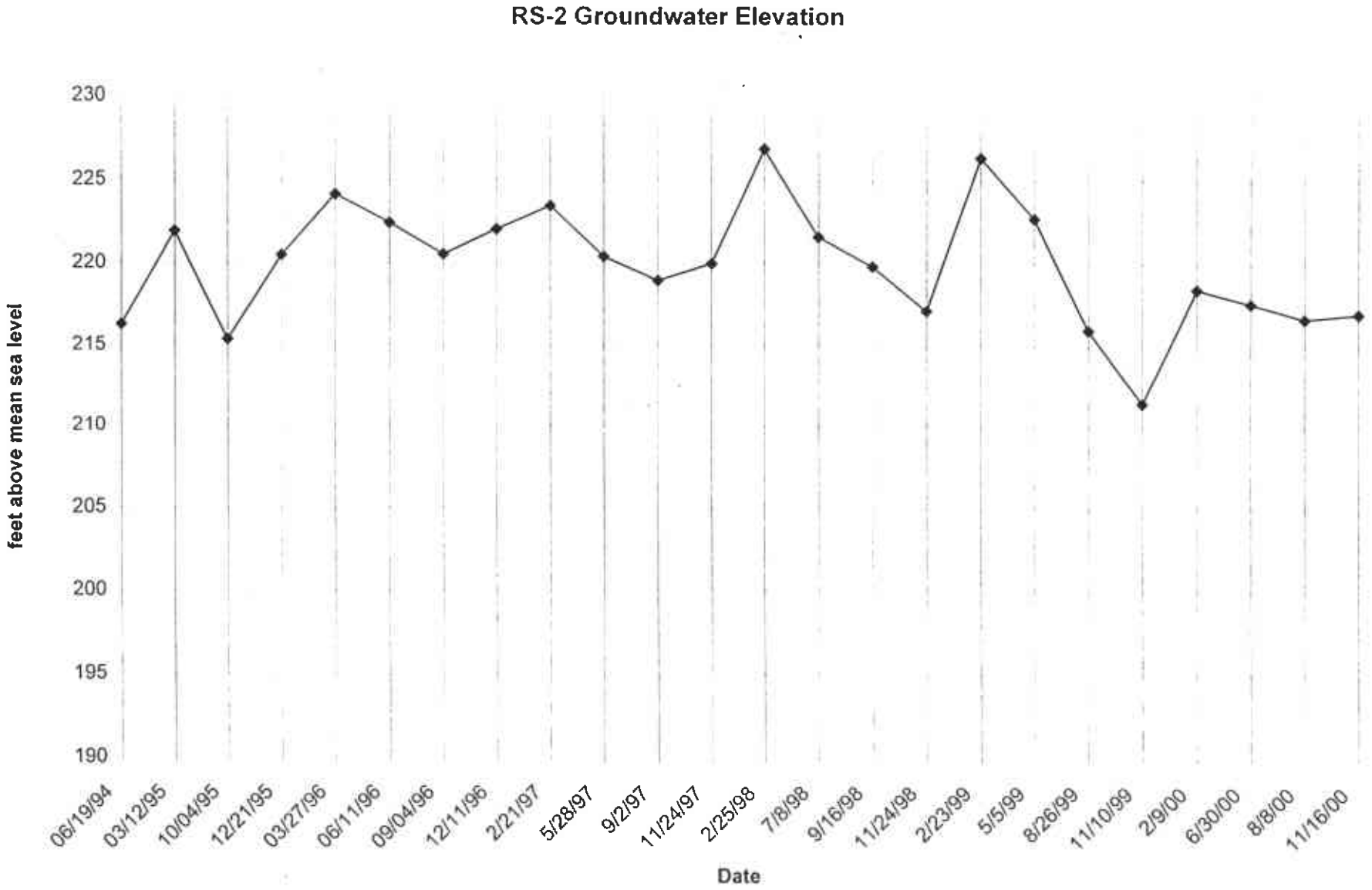
ID#	(All concentrations in parts per billion [ug/L, ppb]) (AMSL = Above mean sea level) DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	DEPTH TO GROUND WATER (FEET)	GROUND WATER ELEVATION (FEET AMSL)		TPH-G (UG/L)	BENZENE (UG/L)	TOLUENE (UG/L)	ETHYL-BENZENE (UG/L)	XYLENES (UG/L)	MTBE (UG/L)	
RS-2	06/19/94	227.19	10.89	216.3		140	9.2	34	4.3	24.0		
RS-2	03/12/95	227.19	5.26	221.93		ND	ND	ND	ND	ND		
RS-2	10/04/95	230.43	15.05	215.38		ND	ND	ND	ND	ND		
RS-2	12/21/95	230.43	9.95	220.48		< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
RS-2	03/27/96	230.43	6.28	224.15		< 50	< 0.5	< 0.5	< 0.5	< 2	< 50	
RS-2	06/11/96	230.43	8.00	222.43		< 50	1.2	2.8	< 0.5	< 2	< 50	
RS-2	09/04/96	230.43	9.89	220.54		< 50	< 0.5	< 0.5	< 0.5	< 2	< 5	
RS-2	12/11/96	230.43	8.38	222.05		< 50	< 0.5	< 0.5	< 0.5	< 1	6	
RS-2	2/21/97	230.43	6.96	223.47		< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	5/28/97	230.43	10.02	220.41		< 50	3	3	< 0.5	< 1	< 0.5	*
RS-2	9/2/97	230.43	11.46	218.97		< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	11/24/97	230.43	10.43	220		< 50	< 0.5	1	< 0.5	3	< 0.5	*
RS-2	2/25/98	230.43	3.57	226.86		< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	*
RS-2	7/8/98	230.43	8.83	221.6		< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
RS-2	9/16/98	230.43	10.60	219.83		< 50	< 0.5	< 0.5	< 0.5	< 1	< 1	*
RS-2	11/24/98	230.43	13.27	217.16		140	2.8	19	2.6	3.3	15	*
RS-2	2/23/99	230.43	4.06	226.37		< 50	< 0.5	< 0.5	< 0.5	< 1	< 0.5	
RS-2	5/5/99	230.43	7.70	222.73		< 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	217.6		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		< 50	<0.5	<0.5	<0.5	< 1	<0.5	


RS-2 Groundwater Elevation
feet above mean sea level
230
225
220
215
210
205
200
195
190
06/19/94
03/12/95
10/04/95
12/21/95
03/27/96
06/11/96
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
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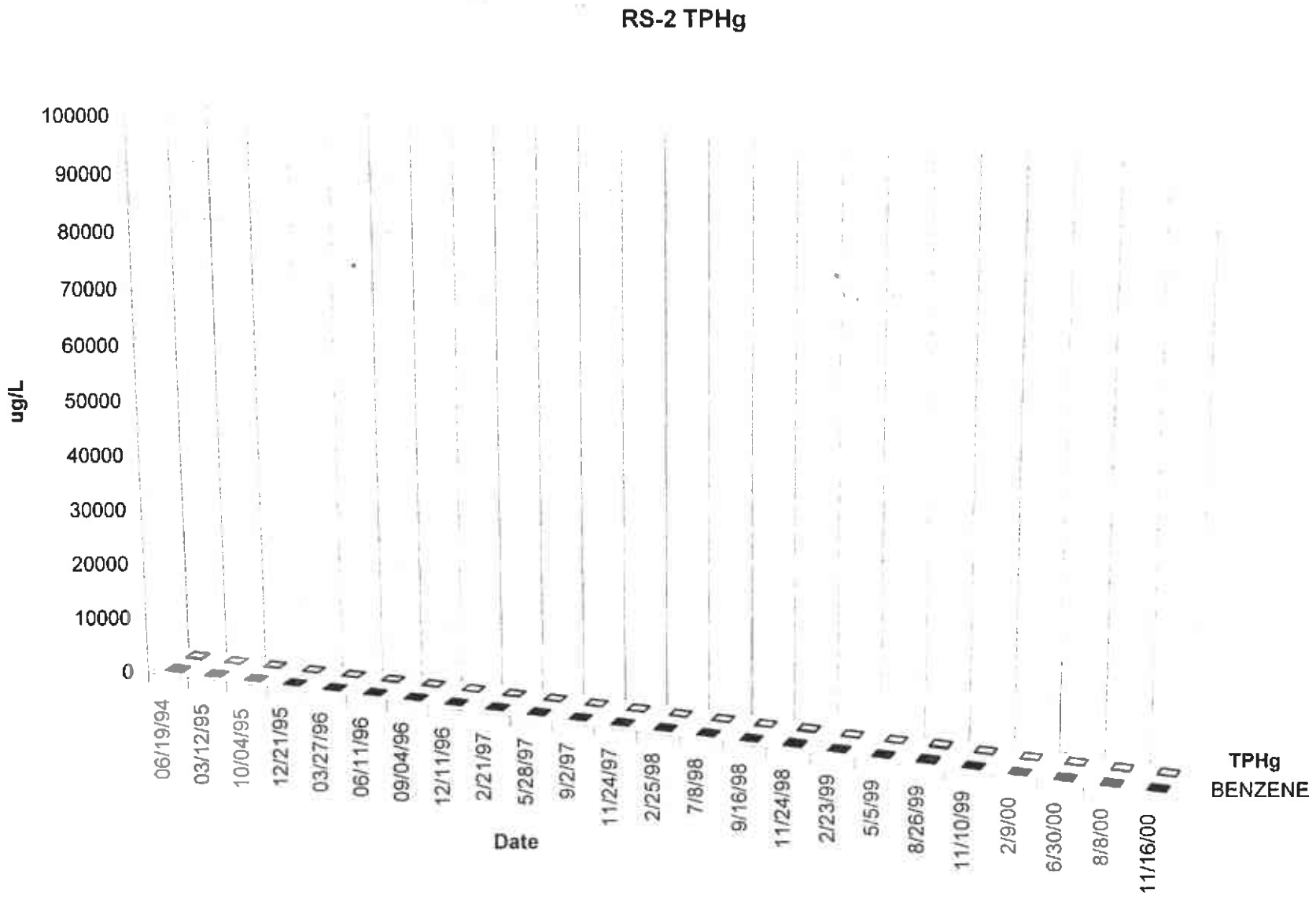
RS-2 TPHg
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12/21/95
03/27/96
06/11/96
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

TABLE 1
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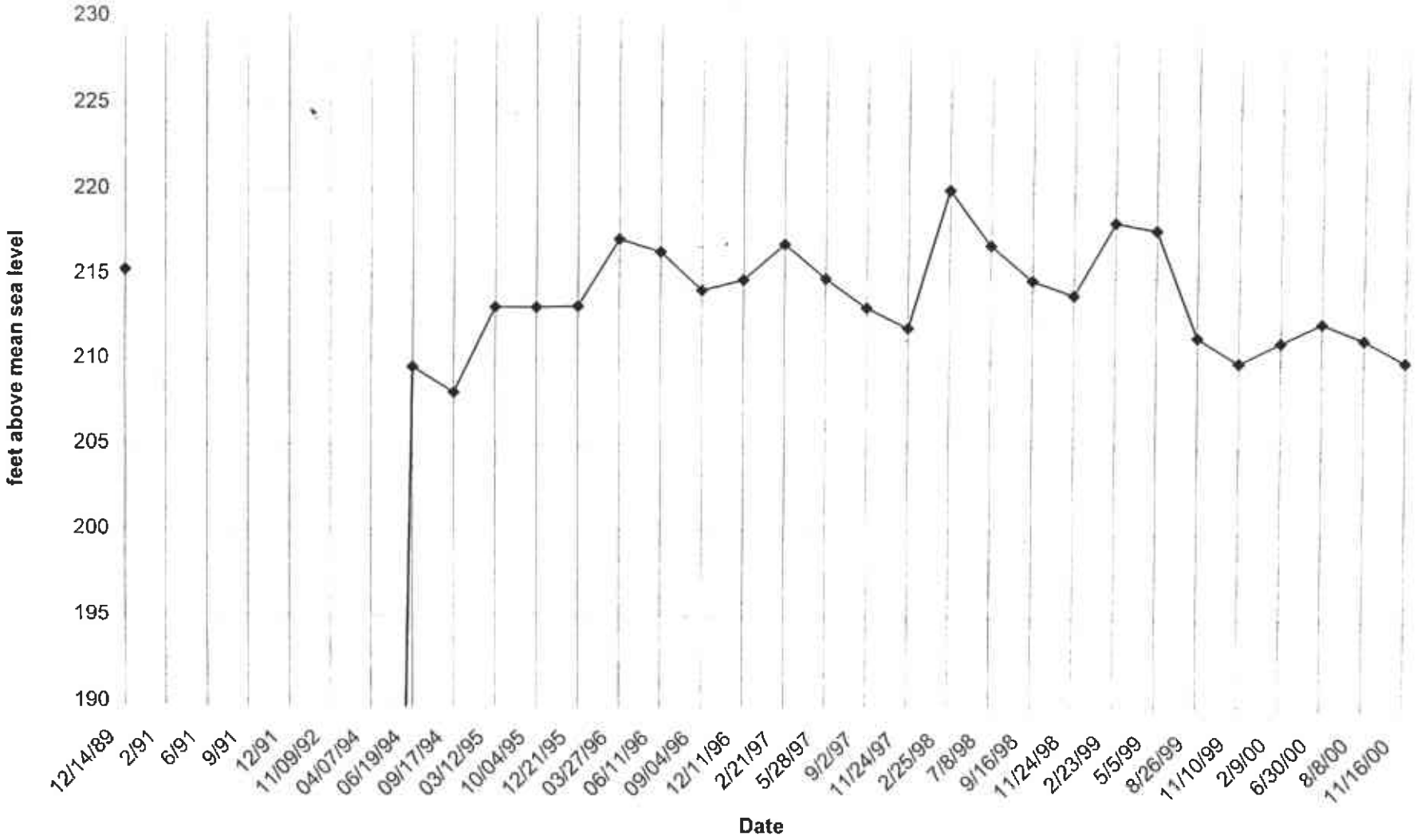
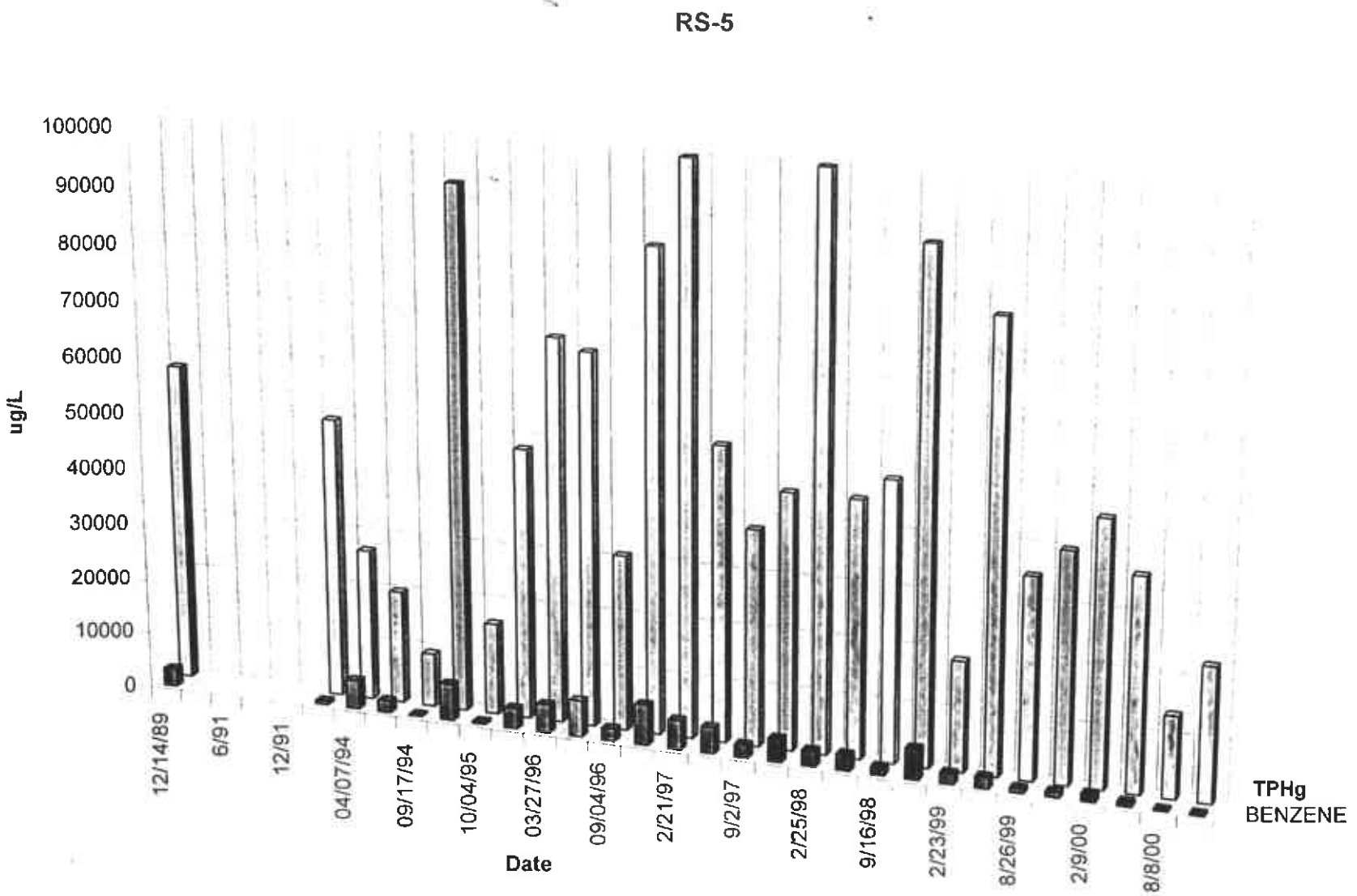
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

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)	
RS-5	12/14/89	241.26	25.97	215.29		57000	3100	4300	670	3400		
RS-5	2/91		FLOATING PRODUCT									
RS-5	6/91		FLOATING PRODUCT									
RS-5	9/91		FLOATING PRODUCT									
RS-5	12/91		FLOATING PRODUCT									
RS-5	11/09/92	98.99	20.73	78.26		50000	650	4800	1100	15000		
RS-5	04/07/94	98.99	18.16	80.83		27000	5000	8700	550	2800		
RS-5	06/19/94	227.65	18.11	209.54		20000	2100	5300	470	2500		
RS-5	09/17/94	227.65	19.63	208.02		9300	230	340	110	700		
RS-5	03/12/95	227.65	14.54	213.11		93000	6400	2000	19000	10000		
RS-5	10/04/95	230.64	17.53	213.11		16000	420	2100	320	1800		
RS-5	12/21/95	230.64	17.47	213.17		48000	3500	9200	840	4800	56	
RS-5	03/27/96	230.64	13.51	217.13		68000	4900	18000	1700	11000	< 3000	
RS-5	06/11/96	230.64	14.25	216.39		66000	6300	20000	2100	12000	< 3000	
RS-5	09/04/96	230.64	16.50	214.14		31000	2100	11000	1100	6800	400	
RS-5	12/11/96	230.64	15.88	214.76		85000	7000	21000	1800	8900	570	
RS-5	2/21/97	230.64	13.76	216.88	sh	100000	5000	22000	1700	7300	<0.5	*
RS-5	5/28/97	230.64	15.77	214.87		52000	4500	19000	2100	10000	<0.5	*
RS-5	9/2/97	230.64	17.47	213.17		38000	2200	9400	1300	5800	<0.5	
RS-5	11/24/97	230.64	18.67	211.97		45000	4000	16000	1900	9700	<0.5	*
RS-5	2/25/98	230.64	10.53	220.11		160000	2700	31000	5300	28000	<0.5	*
RS-5	7/8/98	230.64	13.75	216.89		45000	2800	12000	2000	8500	<10	*
RS-5	9/16/98	230.64	15.80	214.84		49000	1400	7500	1700	8600	<5	*
RS-5	11/24/98	230.64	16.64	214		89000	5300	15000	2800	13000	<10	
RS-5	2/23/99	230.64	12.36	218.28		19000	1900	11000	2500	4800	<25	*
RS-5	5/5/99	230.64	12.78	217.86		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 Groundwater Elevation

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20000
10000
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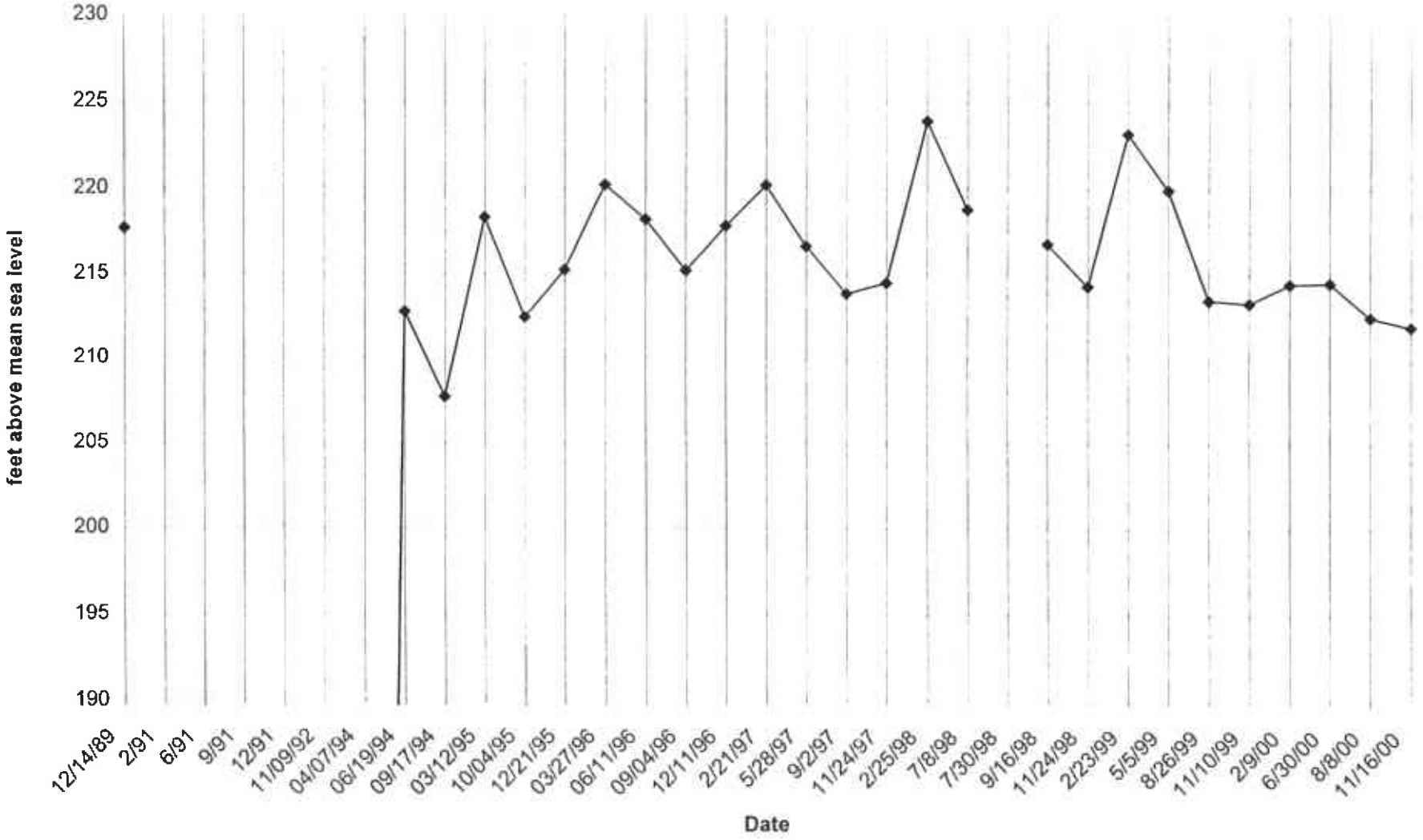
04/07/94
09/17/94
10/04/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
9/16/98
2/23/99
8/26/99
2/9/00
8/8/00
Date
TPHg
BENZENE

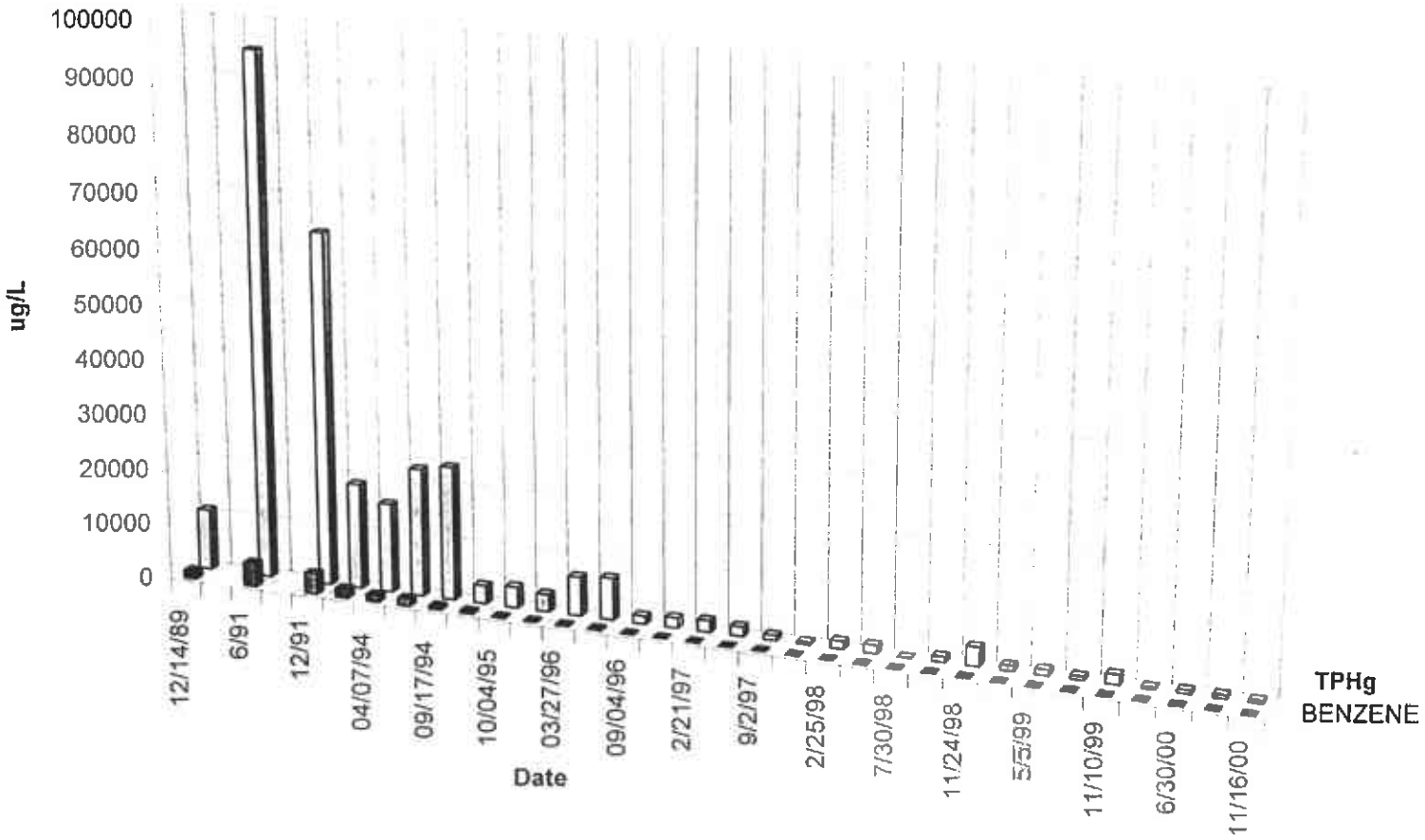
TABLE 1
GROUNDWATER ELEVATIONS AND CERTIFIED ANALYTICAL LABAORATAORY RESULTS FROM WATER SAMPLES
DESERT PETROLEUM, INC. SITE #793
4035 PARK BOULEVARD, OAKLAND, CALIFORNIA

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)
RS-6	12/14/89	240.23	22.52	217.71		11000	1400	1700	160	860	
RS-6	2/91		FLOATING PRODUCT								
RS-6	6/91					95000	4200	4200	650	3700	
RS-6	9/91		FLOATING PRODUCT								
RS-6	12/91					64000	3700	2300	730	4100	
RS-6	11/09/92	99.27	19.43	79.84		19000	1600	710	500	1600	
RS-6	04/07/94	99.27	14.42	84.85		16000	1200	1300	290	1100	
RS-6	06/19/94	227.22	14.45	212.77		23000	1300	2200	590	2200	
RS-6	09/17/94	227.22	19.52	207.7		24000	630	790	250	1100	
RS-6	03/12/95	227.22	8.90	218.32		3200	450	13	82	230	
RS-6	10/04/95	230.22	17.78	212.44		3700	170	250	38	290	
RS-6	12/21/95	230.22	14.98	215.24		3100	120	30	16	150	58
RS-6	03/27/96	230.22	10.00	220.22		6900	180	440	79	360	< 300
RS-6	06/11/96	230.22	12.00	218.22		7400	220	150	30	100	<1000
RS-6	09/04/96	230.22	15.00	215.22		1400	68	2.6	7.7	9.2	14
RS-6	12/11/96	230.22	12.36	217.86		1800	39	16	10	18	< 0.5
RS-6	2/21/97	230.22	10.00	220.22		2100	71	85	25	40	< 0.5 *
RS-6	5/28/97	230.22	13.56	216.66		1700	34	12	11	16	< 0.5 *
RS-6	9/2/97	230.22	16.35	213.87		940	34	71	9	55	< 0.5 *
RS-6	11/24/97	230.22	15.72	214.5		490	9	6	1	7	< 0.5 *
RS-6	2/25/98	230.22	6.26	223.96		1400	22	47	5	52	< 0.5 *
RS-6**	7/8/98	230.22	11.41	218.81		1500	83	9	84	2	<10 *
RS-6	7/30/98	230.22				<50	<0.5	<0.5	<0.5	<1	
RS-6	9/16/98	230.22	13.42	216.8		990	23	<0.5	<0.5	<1	<1 *
RS-6	11/24/98	230.22	15.91	214.31		3400	5.3	<0.5	<0.5	14	<0.5
RS-6	2/23/99	230.22	7.00	223.22		1000	3.4	3.2	1.6	7.3	<0.5
RS-6	5/5/99	230.22	10.29	219.93		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 Groundwater Elevation



RS-6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90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
12/14/89
6/91
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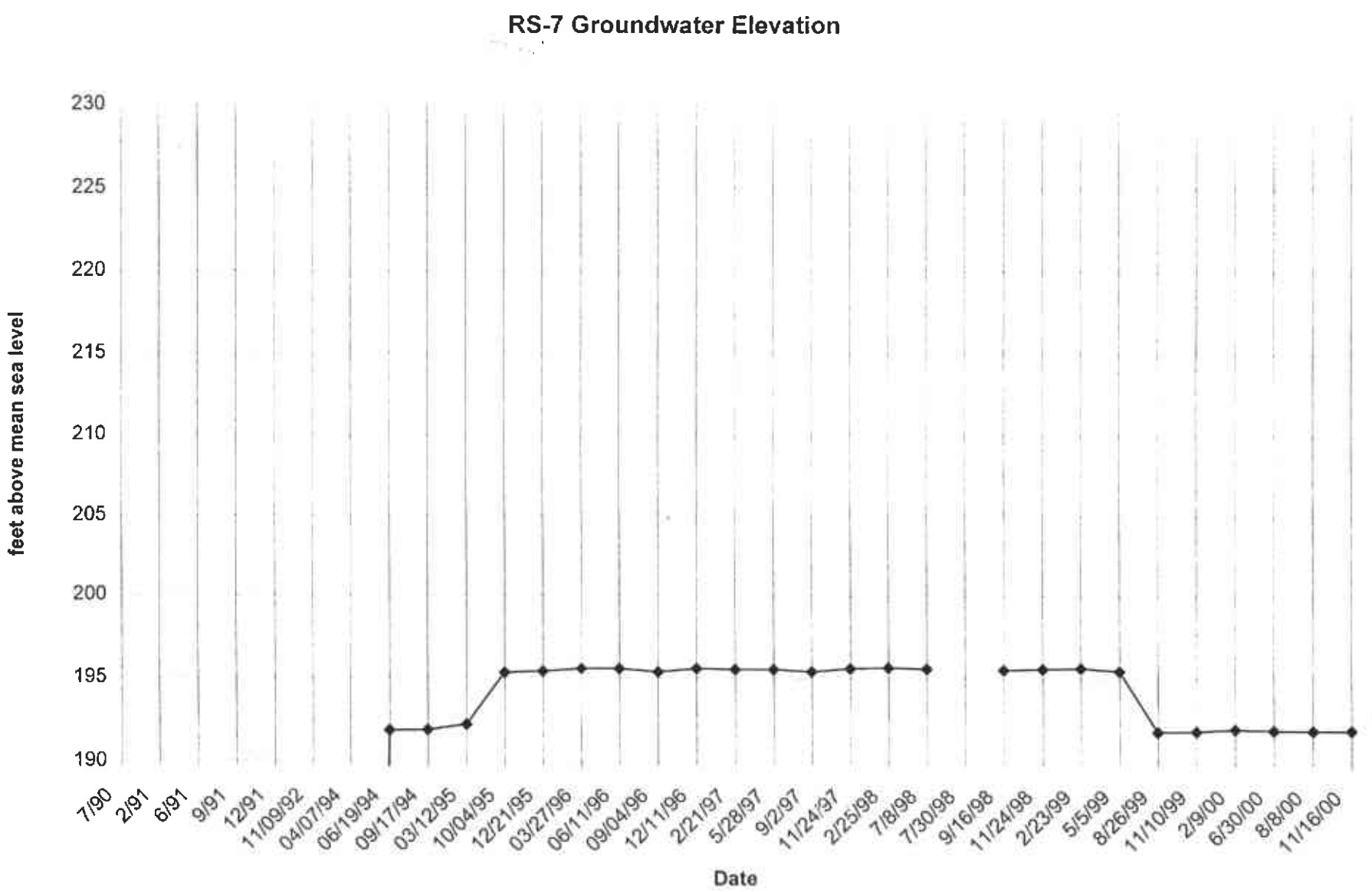
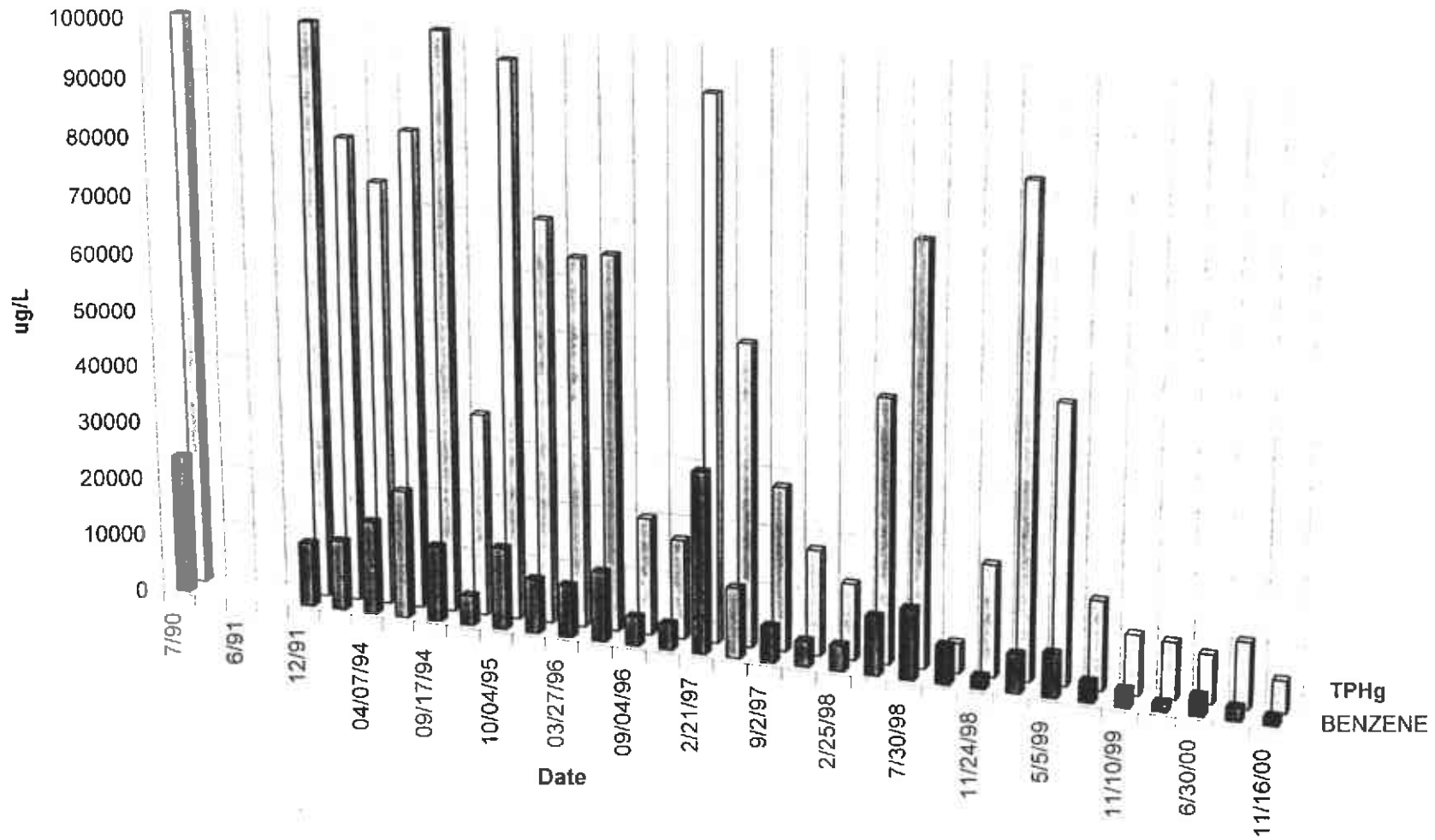
04/07/94
09/17/94
10/04/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
7/30/98
11/24/98
5/5/99
11/10/99
6/30/00
11/16/00
Date
TPHg
BENZENE

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)	
RS-7	7/90					5600000	24000	210000	50000	740000		
RS-7	2/91		FLOATING PRODUCT									
RS-7	6/91		FLOATING PRODUCT									
RS-7	9/91		FLOATING PRODUCT									
RS-7	12/91					270000	11000	32000	2000	13000		
RS-7	11/09/92	67.88	4.62	63.26		81000	12000	16000	1900	13000		
RS-7	04/07/94	67.88	4.03	63.85		74000	16000	16000	1400	8500		
RS-7	06/19/94	195.92	4.07	191.85		83000	22000	19000	1500	9500		
RS-7	09/17/94	195.92	4.05	191.87		270000	13000	15000	2100	1100		
RS-7	03/12/95	195.92	3.72	192.2		35000	5100	560	6300	3600		
RS-7	10/04/95	199.35	4.03	195.32		96000	14000	14000	1300	7000		
RS-7	12/21/95	199.35	3.95	195.4		70000	9300	12000	860	5600	210	
RS-7	03/27/96	199.35	3.80	195.55		64000	8900	14000	1100	8300	< 3000	
RS-7	06/11/96	199.35	3.79	195.56		65000	12000	17000	1600	9700	<5000	
RS-7	09/04/96	199.35	3.99	195.36		20000	4900	2100	670	4400	100	
RS-7	12/11/96	199.35	3.78	195.57		17000	4400	7500	570	4600	180	
RS-7	2/21/97	199.35	3.82	195.53		93000	31000	47000	3800	23000	<0.5	*
RS-7	5/28/97	199.35	3.82	195.53		52000	12000	8200	2000	11000	<0.5	*
RS-7	9/2/97	199.35	3.96	195.39		28000	6100	2800	950	3800	<50	
RS-7	11/24/97	199.35	3.76	195.59		18000	4300	5900	600	2900	<0.5	*
RS-7	2/25/98	199.35	3.70	195.65		13000	4300	7100	1100	5800	<0.5	*
RS-7**	7/8/98	199.35	3.76	195.59		45000	10000	3400	2000	8000	<10	*
RS-7	7/30/98	199.35				72000	12000	2100	2000	9100		
RS-7	9/16/98	199.35	3.83	195.52		5000	6500	160	<2.5	500	<5	*
RS-7	11/24/98	199.35	3.77	195.58		19000	2100	1100	500	2100	<0.5	
RS-7	2/23/99	199.35	3.70	195.65		83000	6500	9900	1200	7000	<10	
RS-7	5/5/99	199.35	3.88	195.47		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 Groundwater Elevation
feet above mean sea level
230
225
220
215
210
205
200
195
190
7/90
2/91
6/91
9/91
12/91
11/09/92
04/07/94
06/19/94
09/17/94
03/12/95
10/04/95
12/21/95
03/27/96
06/11/96
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
7/30/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date

RS-7


ug/L
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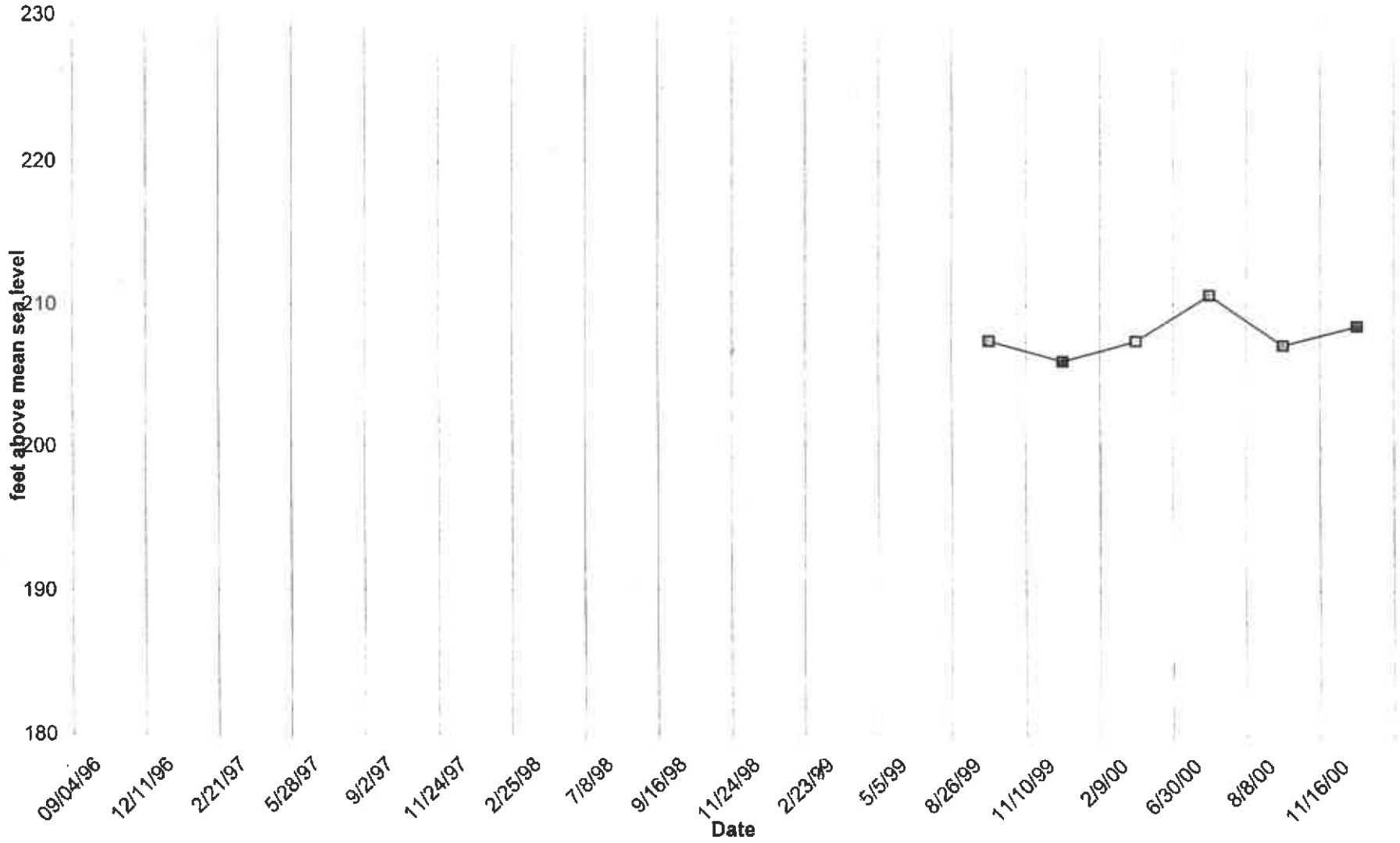
80000
70000
60000
50000
40000
30000
20000
10000
0
7/90
6/91
12/91
04/07/94
09/17/94
10/04/95
03/27/96
09/04/96
2/21/97
9/2/97
2/25/98
7/30/98
11/24/98
5/5/99
11/10/99
6/30/00
11/16/00
Date
TPHg
BENZENE

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)	
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-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-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-8 Groundwater Elevation



RS-8

160000
150000
140000
130000
120000
110000
100000
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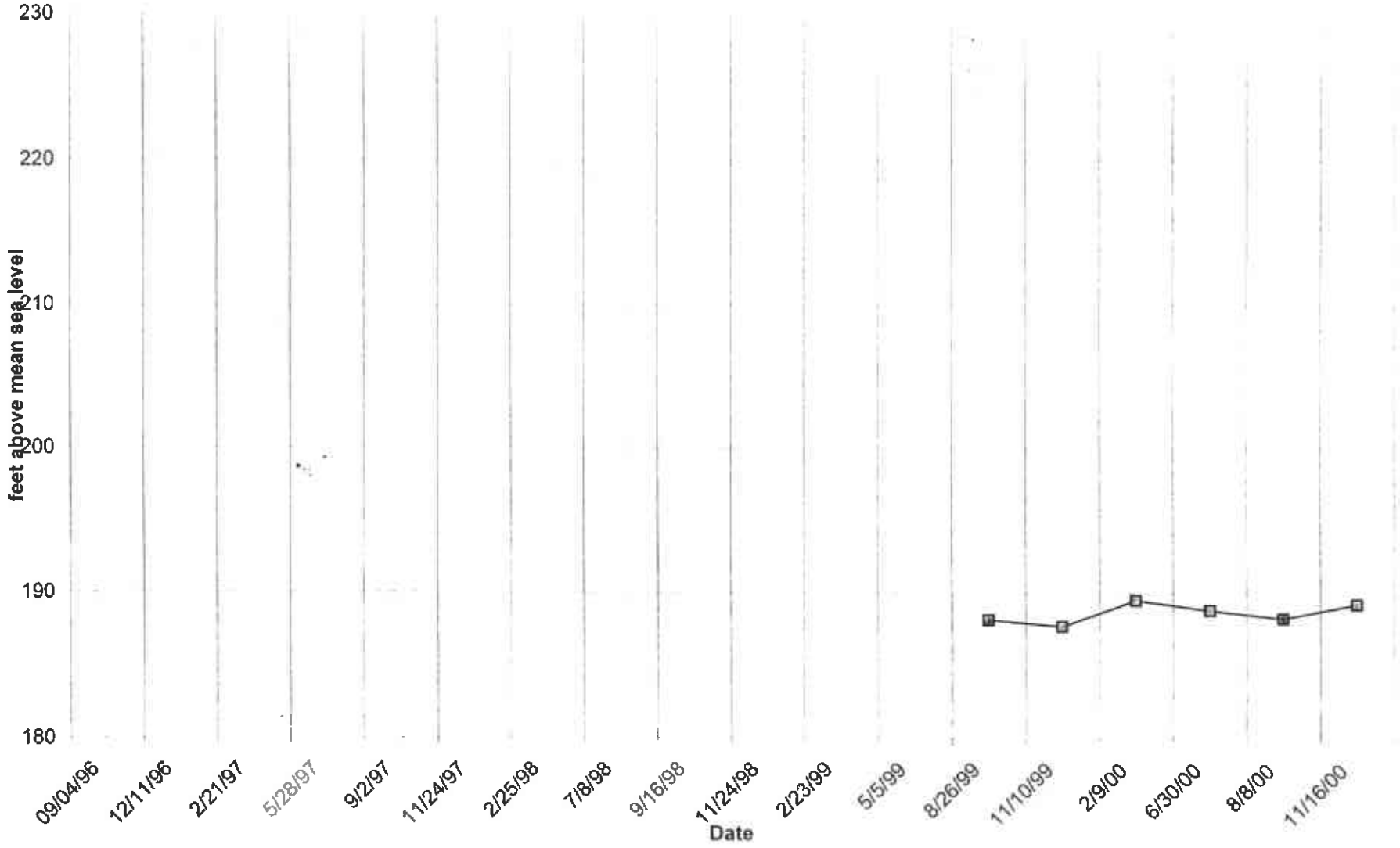
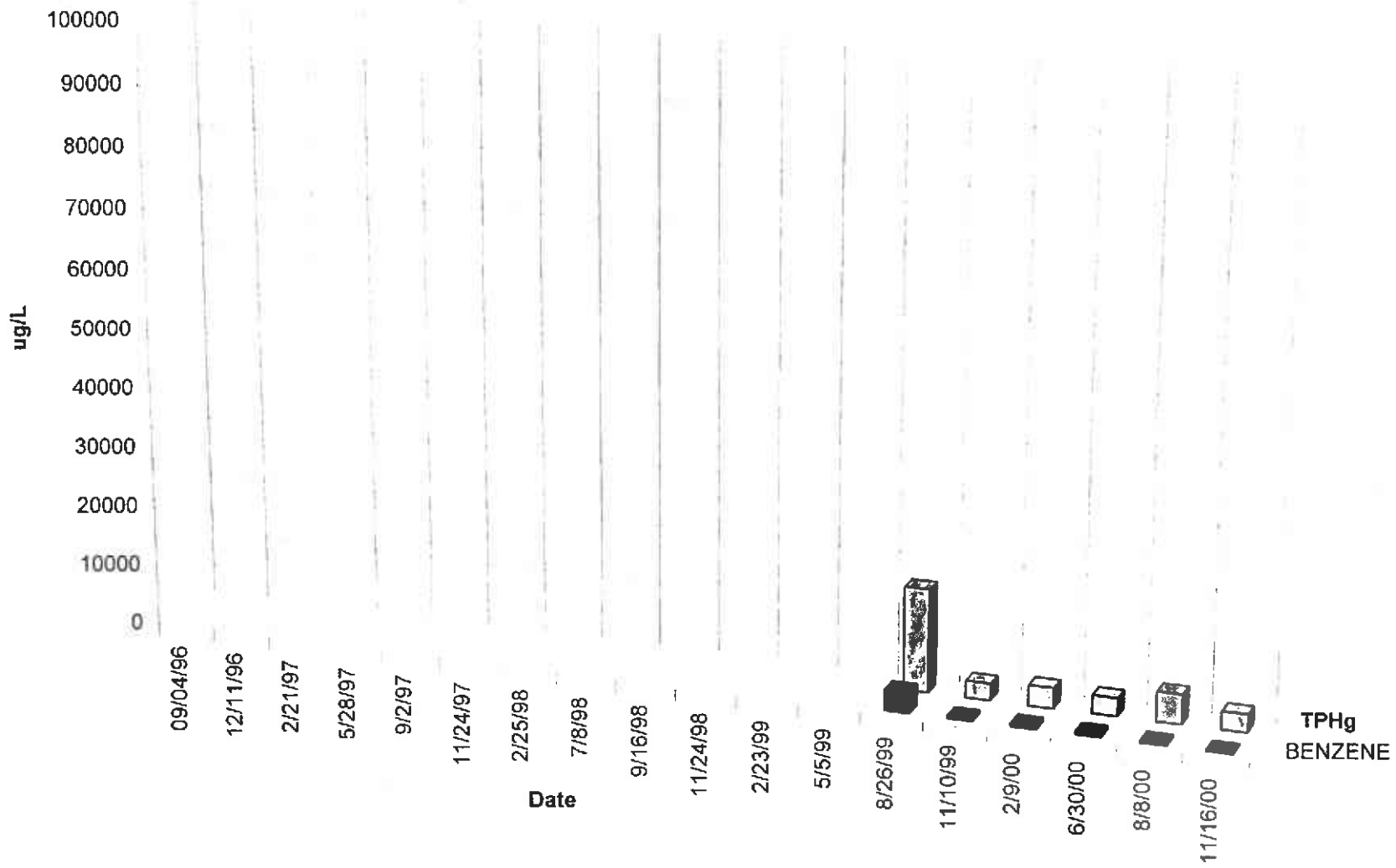
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

RS-9 Groundwater Elevation



RS-9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60000
50000
40000
30000
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10000
0
ug/L
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12/11/96
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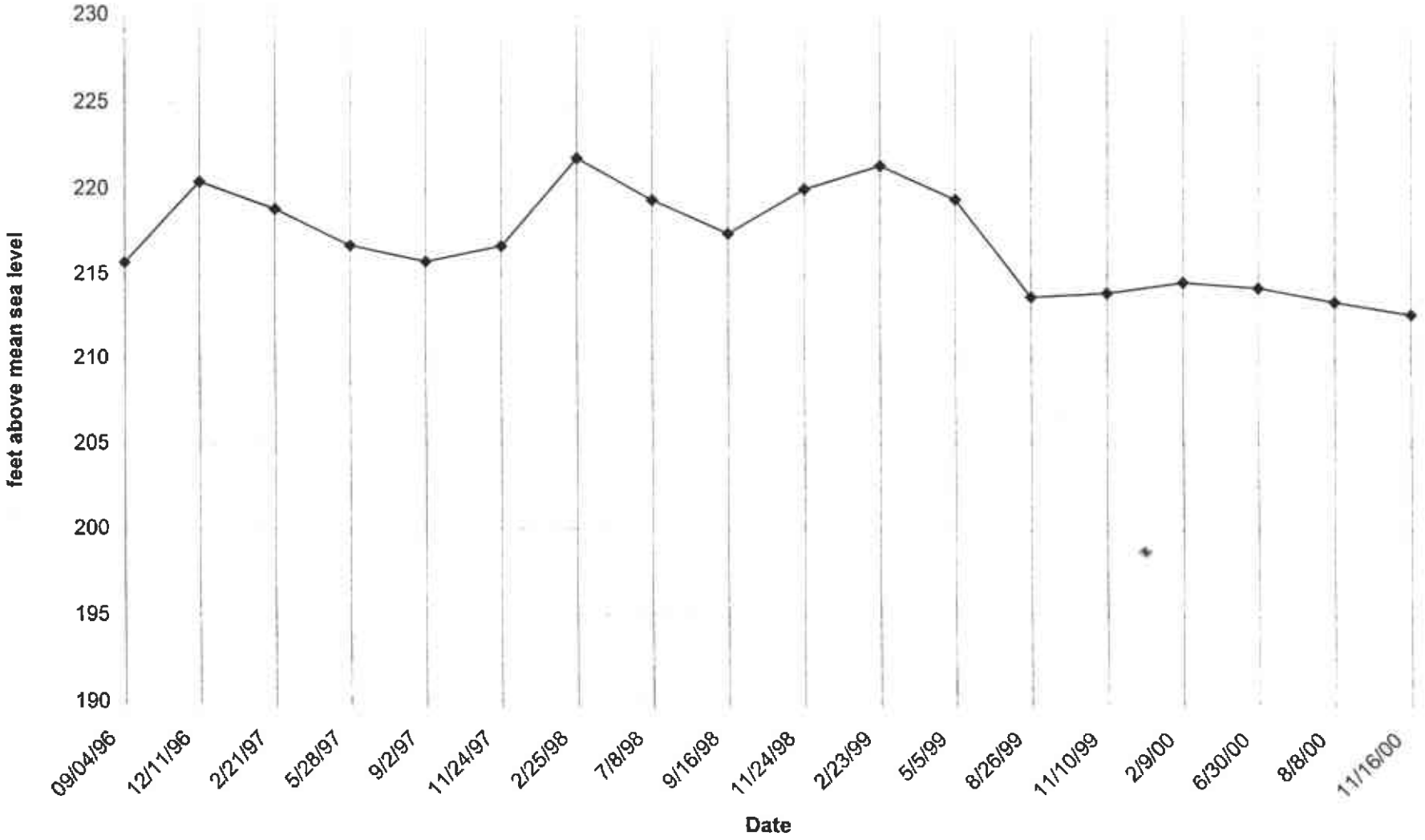
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

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)
RECOVERY 1	09/04/96	230.73	15.00	215.73		1800	1100	3	29	< 10	< 30
RECOVERY 1	12/11/96	230.73	10.30	220.43		<50	<0.5	< 0.5	< 0.5	< 1	4
RECOVERY 1	2/21/97	230.73	11.88	218.85		2500	670	9	3	13	<0.5
RECOVERY 1	5/28/97	230.73	14.03	216.7		24000	4300	36	2000	370	<0.5
RECOVERY 1	9/2/97	230.73	14.98	215.75		4400	320	6	340	72	20
RECOVERY 1	11/24/97	230.73	14.06	216.67		100	39	1	18	10	<0.5
RECOVERY 1	2/25/98	230.73	8.93	221.8		1200	400	8	13	150	<0.5
RECOVERY 1	7/8/98	230.73	11.36	219.37		68	14	< 0.5	< 0.5	< 1	<1
RECOVERY 1	9/16/98	230.73	13.30	217.43		16000	3400	92	< 0.5	410	<1
RECOVERY 1	11/24/98	230.73	10.72	220.01		340	19	1.6	35	9.7	<0.5
RECOVERY 1	2/23/99	230.73	9.34	221.39		60	16	0.6	5.6	1.2	<0.5
RECOVERY 1	5/5/99	230.73	11.30	219.43		1300	290	3	150	1	15
RECOVERY 1***	8/26/99	227.69	13.97	213.72		6500	630	<0.5	1300	<1	<1
RECOVERY 1	11/10/99	227.69	13.73	213.96		480	12	4	22	9	<0.5
RECOVERY 1	2/9/00	227.69	13.10	214.59		<50	8	<0.5	1	<1	<0.5
RECOVERY 1	6/30/00	227.69	13.42	214.27		2600	350	35	1900	220	<0.5
RECOVERY 1	8/8/00	227.69	14.25	213.44		10000	910	76	2100	390	<0.5
RECOVERY 1	11/16/00	227.69	15.00	212.69		1600	120	11	290	69	<0.5

R-1 Groundwater Elevation



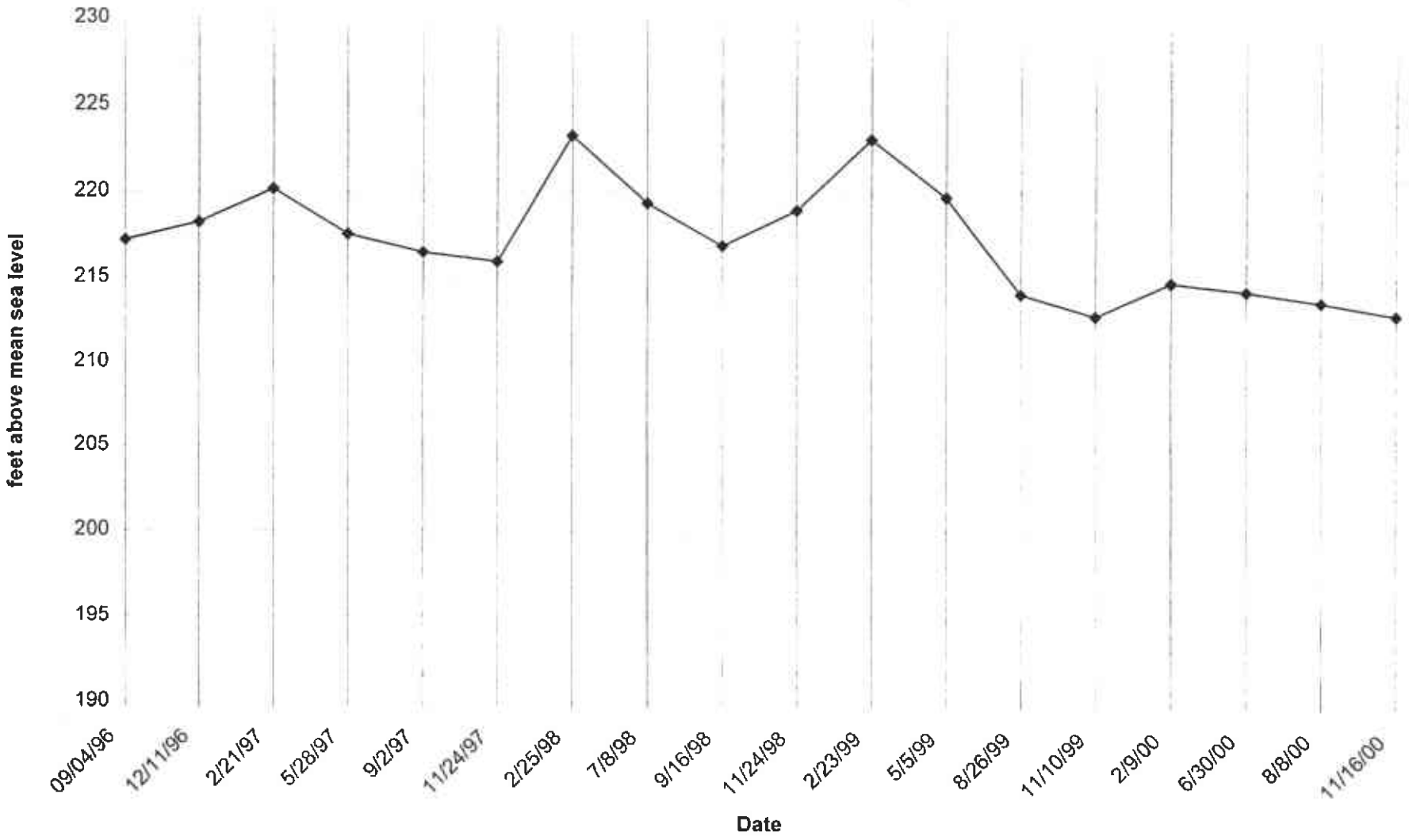
R-1

100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

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)	
RECOVERY 2	09/04/96	230.68	13.44	217.24		14000	7600	<10	170	190	<100	
RECOVERY 2	12/11/96	230.68	12.42	218.26		488	300	1	< 0.5	30	16	
RECOVERY 2	2/21/97	230.68	10.50	220.18		5700	2100	5	2	10	1	*
RECOVERY 2	5/28/97	230.68	13.10	217.58		36000	14000	63	260	220	<0.5	*
RECOVERY 2	9/2/97	230.68	14.16	216.52		30000	12000	330	1000	790	47	
RECOVERY 2	11/24/97	230.68	14.71	215.97		41000	15000	830	1500	4200	<0.5	*
RECOVERY 2	2/25/98	230.68	7.39	223.29		800	400	<0.5	<0.5	15	<0.5	*
RECOVERY 2	7/8/98	230.68	11.27	219.41		290	31	< 0.5	1	< 1	2	*
RECOVERY 2	9/16/98	230.68	13.73	216.95		6600	11000	24	<0.5	35	<1	*
RECOVERY 2	11/24/98	230.68	11.67	219.01		6100	<0.5	36	<0.5	21	<0.5	
RECOVERY 2	2/23/99	230.68	7.55	223.13		1100	310	1	2	26	<0.5	
RECOVERY 2	5/5/99	230.68	10.89	219.79		11000	5300	7	36	7	8	
RECOVERY 2***	8/26/99	227.28	13.14	214.14		6700	940	33	190	240	<1	*
RECOVERY 2	11/10/99	227.28	14.42	212.86		5100	2600	160	1800	8100	<0.5	*
RECOVERY 2	2/9/00	227.28	12.45	214.83		4700	1400	110	130	340	<0.5	
RECOVERY 2	6/30/00	227.28	12.94	214.34		7100	3200	110	300	480	<0.5	
RECOVERY 2	8/8/00	227.28	13.58	213.7		30000	13000	250	1000	2700	<0.5	
RECOVERY 2	11/16/00	227.28	14.33	212.95		44000	17000	230	790	3600	<0.5	

R-2 Groundwater Elevation



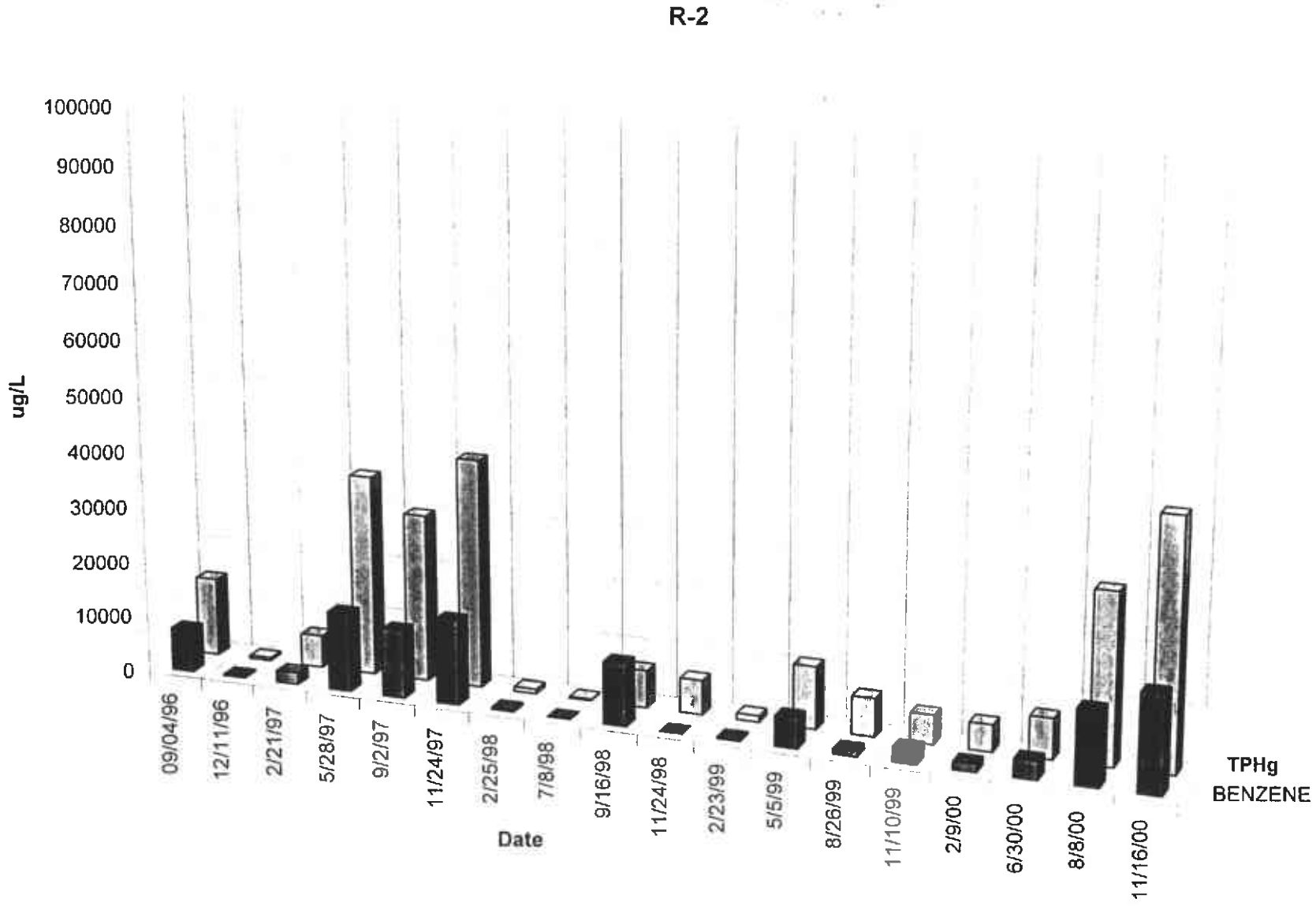
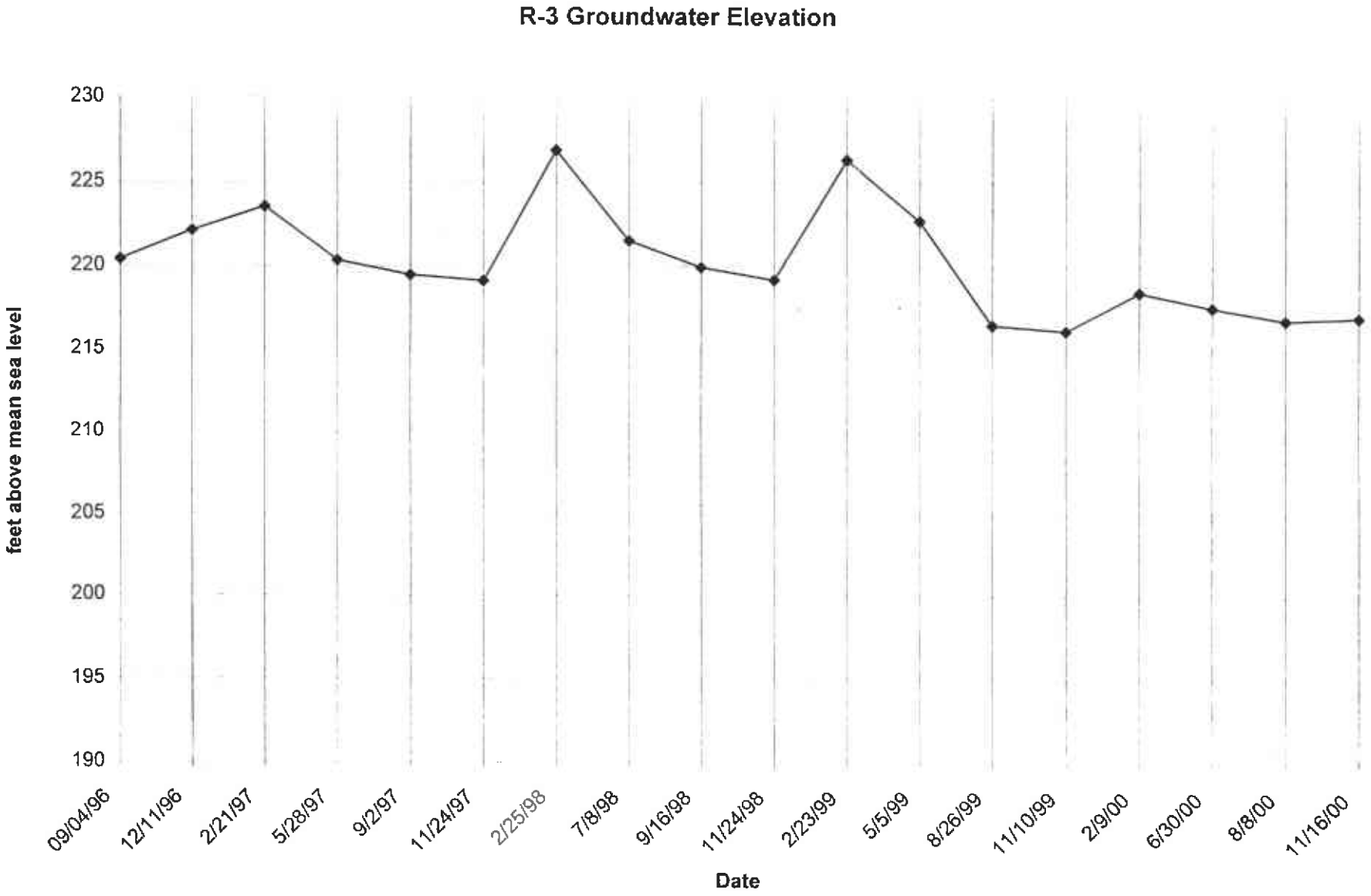

R-2
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

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)	
RECOVERY 3	09/04/96	230.32	9.90	220.42		<50	<0.5	<0.5	<0.5	<2	<5	
RECOVERY 3	12/11/96	230.32	8.18	222.14		<50	<0.5	<0.5	<0.5	<1	5	
RECOVERY 3	2/21/97	230.32	6.76	223.56		340	35	59	8	54	<0.5	*
RECOVERY 3	5/28/97	230.32	9.98	220.34		<50	<0.5	<0.5	<0.5	<1	<0.5	*
RECOVERY 3	9/2/97	230.32	10.86	219.46		<50	4	<0.5	<0.5	<1	<0.5	*
RECOVERY 3	11/24/97	230.32	11.20	219.12	not enough water to sample. No sample							
RECOVERY 3	2/25/98	230.32	3.42	226.9		<50	<0.5	<0.5	<0.5	<1	<0.5	*
RECOVERY 3	7/8/98	230.32	8.78	221.54		140	<0.5	<0.5	4	24	<1	*
RECOVERY 3	9/16/98	230.32	10.38	219.94		<50	<0.5	<0.5	<0.5	<1	<1	*
RECOVERY 3	11/24/98	230.32	11.12	219.2	not enough water to sample. No sample							
RECOVERY 3	2/23/99	230.32	3.95	226.37		<50	<0.5	<0.5	<0.5	<1	<0.5	*
RECOVERY 3	5/5/99	230.32	7.58	222.74		80	9	<0.5	<0.5	<1	6	
RECOVERY 3***	8/26/99	227.25	10.76	216.49		<50	2	<0.5	<0.5	<1	1	*
RECOVERY 3	11/10/99	227.25	11.09	216.16		140	3	4	1	11	<0.5	
RECOVERY 3	2/9/00	227.25	8.76	218.49		<50	2	<0.5	<0.5	<1	<0.5	
RECOVERY 3	6/30/00	227.25	9.67	217.58		<50	0.7	<0.5	1	1	<0.5	
RECOVERY 3	8/8/00	227.25	10.44	216.81		72	<0.5	<0.5	<0.5	<1	<0.5	
RECOVERY 3	11/16/00	227.25	10.26	216.99		110	4	1	<0.5	3	<0.5	


R-3 Groundwater Elevation
feet above mean sea level
230
225
220
215
210
205
200
195
190
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date

R-3

100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

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)
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

100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
ug/L
09/04/96
12/11/96
2/21/97
5/28/97
9/2/97
11/24/97
2/25/98
7/8/98
9/16/98
11/24/98
2/23/99
5/5/99
8/26/99
11/10/99
2/9/00
6/30/00
8/8/00
11/16/00
Date
TPHg
BENZENE

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)
T 2***	8/26/99	195.3	CAR								
T 2	11/10/99	195.3	CAR								
T 2	2/9/00	195.3	CAR								
T 2	6/30/00	195.3	CAR								
T 2	8/8/00	195.3	CAR								
T 2	11/16/00	195.3	CAR								
T 3***	8/26/99	202.38	CAR								
T 3	11/10/99	202.38	CAR								
T 3	2/9/00	202.38	CAR								
T 3	6/30/00	202.38	CAR								
T 3	8/8/00	202.38	9.80	192.58							
T 3	11/16/00	202.38	10.63	191.75							
T 4***	8/26/99	197.48	CAR								
T 4	11/10/99	197.48	CAR								
T 4	2/9/00	197.48	CAR								
T 4	6/30/00	197.48	CAR								
T 4	8/8/00	197.48	4.77	192.71							
T 4	11/16/00	197.48	CAR								
LF-1***	8/26/99	226.59	CAR								
LF-1	11/10/99	226.59	CAR								
LF-1	2/9/00	226.59	CAR								
LF-1	6/30/00	226.59	CAR								
LF-1	8/8/00	226.59	CAR								
LF-1	11/16/00	226.59	CAR								

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

TABLE 2
WASTEWATER DISHCARGE 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
BAKER TANK	1/25/00	314110		0	0	0					
BAKER TANK	1/26/00	315050		940	940	1	<1	<1	<1	<1	<50
BAKER TANK	1/28/00	321120	1098330	6070	7010	2					
BAKER TANK	2/2/00		1102560	4230	11240	1					
BAKER TANK	2/3/00		1107482.2	4922	16162	3	<1	<1	<1	<1	<50
BAKER TANK	2/7/00		1107482.2	0	16162	0					
BAKER TANK AND 1/4LY SAMPLES	2/9/00		1109680	2198	18360	1	EPA METHOD 624				239.2
F1 (PSP No. 1)	3/23/00		1109720	40	18400	0	<1	<1	<1	<2	<5
F1 (PSP No. 1)	5/4/00		1110780	1060	19460	0					
F1 (PSP No. 1)	5/12/00		1111700	920	20380	0					
F1 (PSP No. 1)	5/16/00		1113359	1659	22039	0					
F1 (PSP No. 1)	5/25/00		1113840	481	22520	0					
F1 (PSP No. 1)	5/31/00		1115111	1271	23791	0					
F1 (PSP No. 1)	6/16/00		1115823	712	24503	0					
F1 (PSP No. 1)	6/26/00		1116293	470	24973	0					
F1 (PSP No. 1)	6/30/00		1116303	10	24983	0	EPA METHOD 624				200.7
F1 (PSP No. 1)	7/5/00		1116313	10	24993	0	<1	<1	<1	<2	<2
F1 (PSP No. 1)	7/13/00		1117816	1503	26496	0					
F1 (PSP No. 1)	7/20/00		1118892	1076	27572	0					
F1 (PSP No. 1)	7/27/00		1118892	0	27572	0					
F1 (PSP No. 1)	8/3/00		1120336	1444	29016	0					
F1 (PSP No. 1)	8/10/00		1121041	705	29721	0					
F1 (PSP No. 1)	8/17/00		1121041	0	29721	0					
F1 (PSP No. 1)	8/24/00		1121860	819	30540	0	EPA METHOD 624				200.7
F1 (PSP No. 1)	8/30/00		1122720	860	31400	0	<1	<2	<1	<2	<2
F1 (PSP No. 1)	9/7/00		1123270	550	31950	0					
F1 (PSP No. 1)	9/14/00		1123819	549	32499	0					
F1 (PSP No. 1)	9/21/00		1123819	0	31950	0					
F1 (PSP No. 1)	10/5/00		1124153	334	32833	0					
F1 (PSP No. 1)	10/12/00		1124660	507	32457	0					
F1 (PSP No. 1)	10/19/00		1125904.3	1244	34077	0					
F1 (PSP No. 1)	10/26/00		1127167	1263	33720	0					
F1 (PSP No. 1)	11/9/00		1128367.2	1200	35278	0					
F1 (PSP No. 1)	11/16/00		1129779.5	1412	35132	0					
F1 (PSP No. 1)	11/22/00		1130940.5	1161	36439	0					

< 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
WATER DISCHARGED TO SEWER IS FROM WEEKLY PURGEING OF T1 AND PURGED WATER FROM 1/4LY SAMPLING.

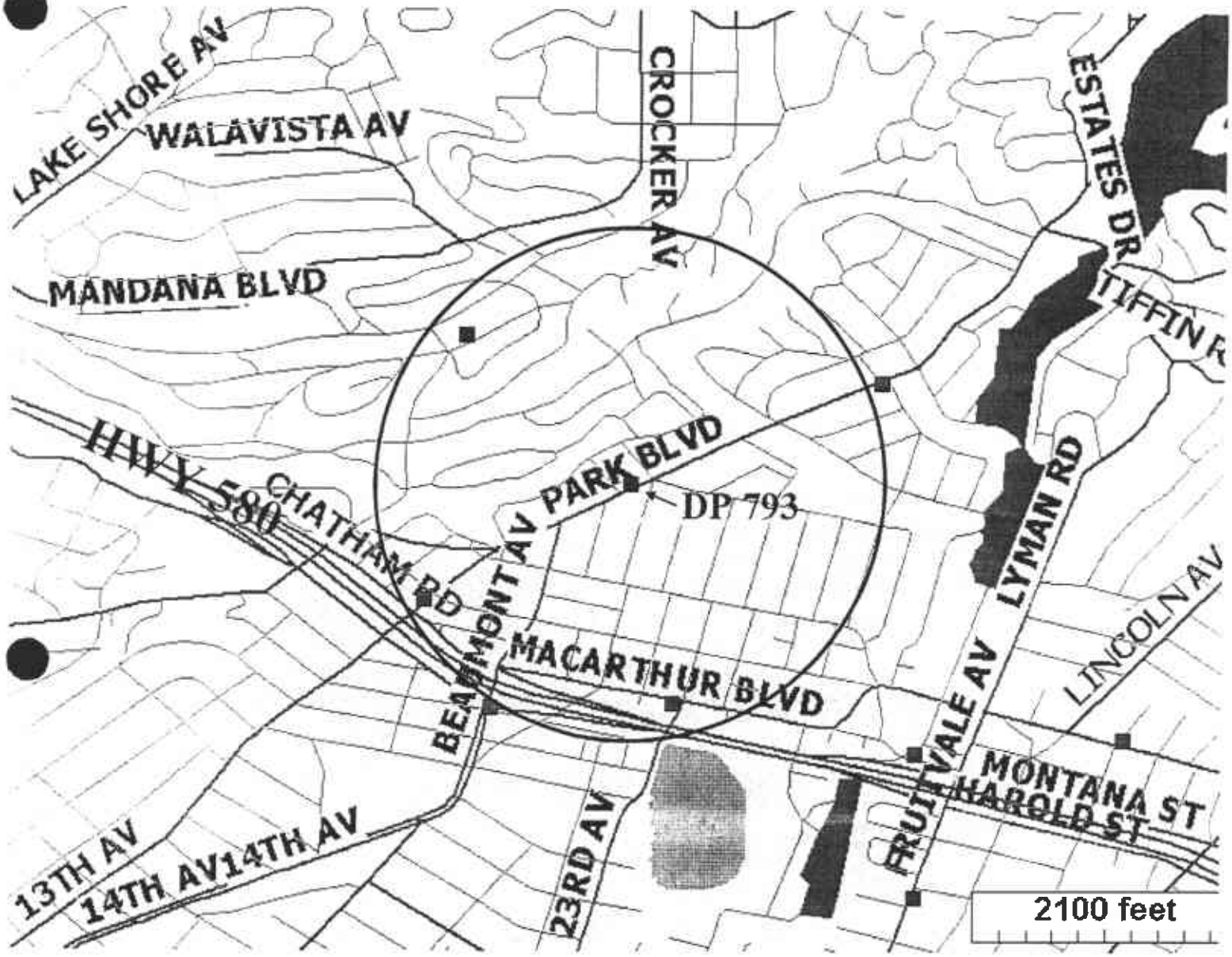


FIGURE 1
GEOTRACKER
AREA WELL & LUST MAP
DP 793
4035 PARK BLVD.
OAKLAND, CA

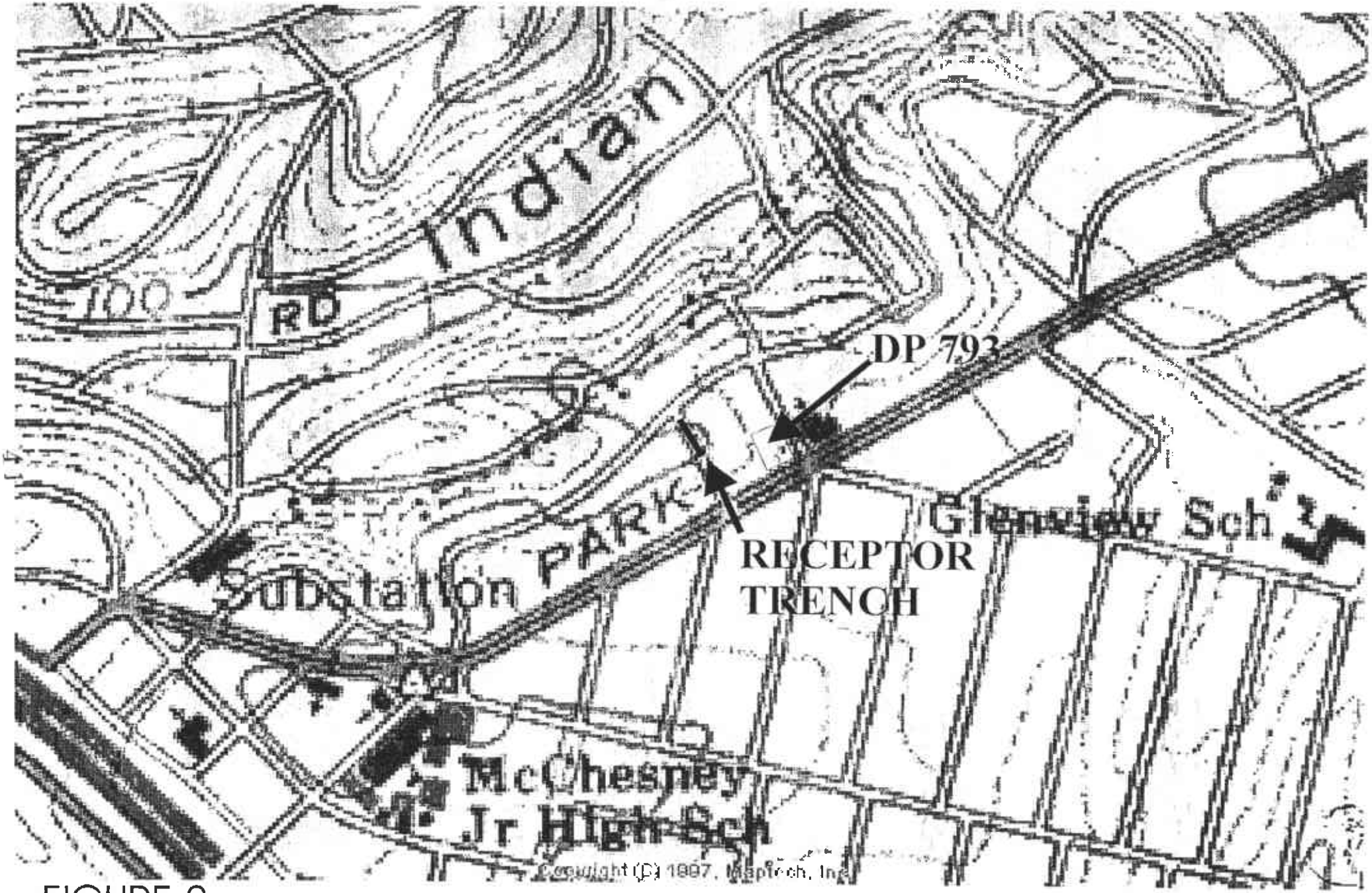
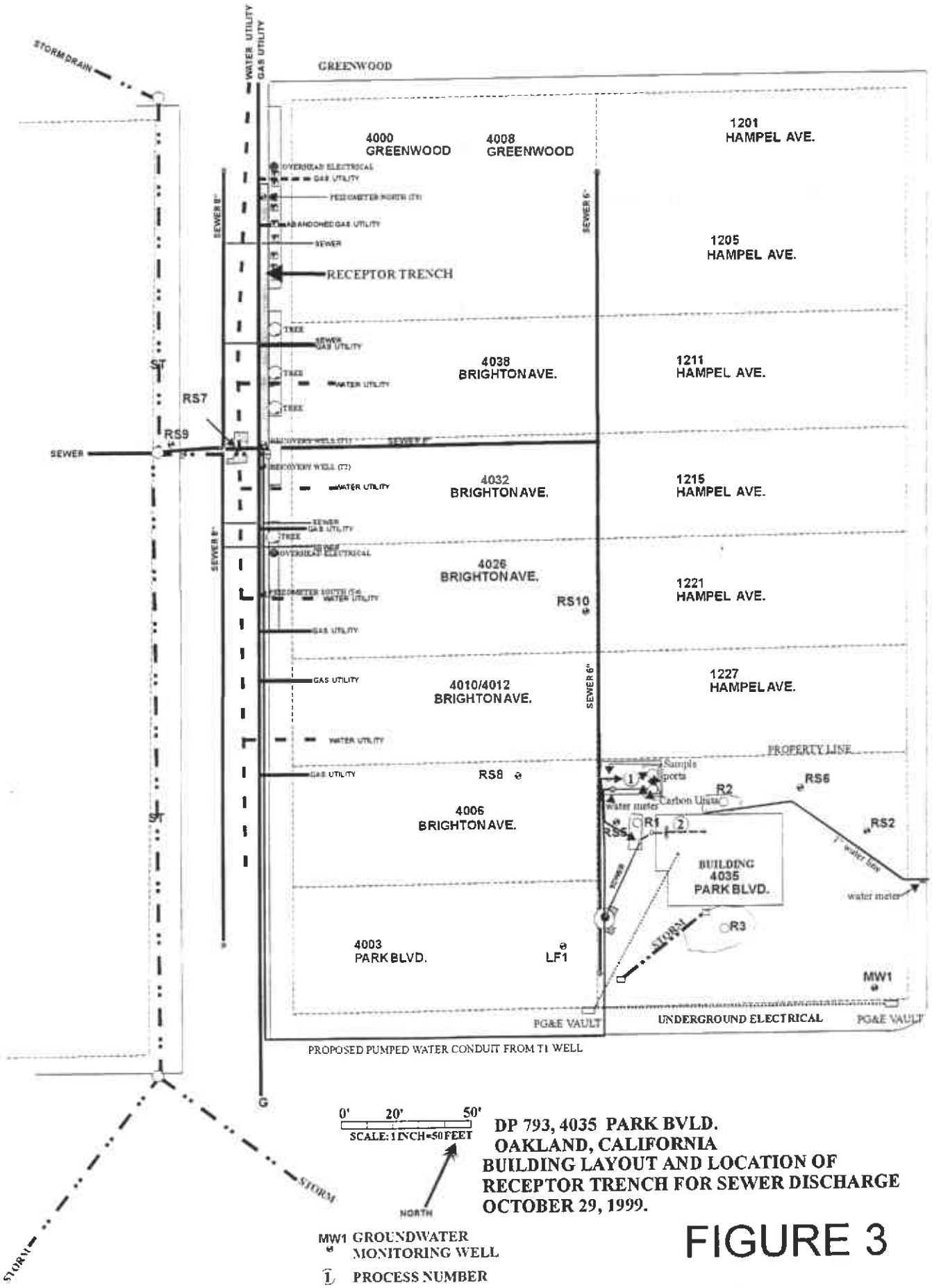


FIGURE 2

PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP



DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
BUILDING LAYOUT AND LOCATION OF RECEPTOR TRENCH FOR SEWER DISCHARGE
OCTOBER 29, 1999.

MW1 GROUNDWATER MONITORING WELL

1 PROCESS NUMBER

WATER METER

FIGURE 3

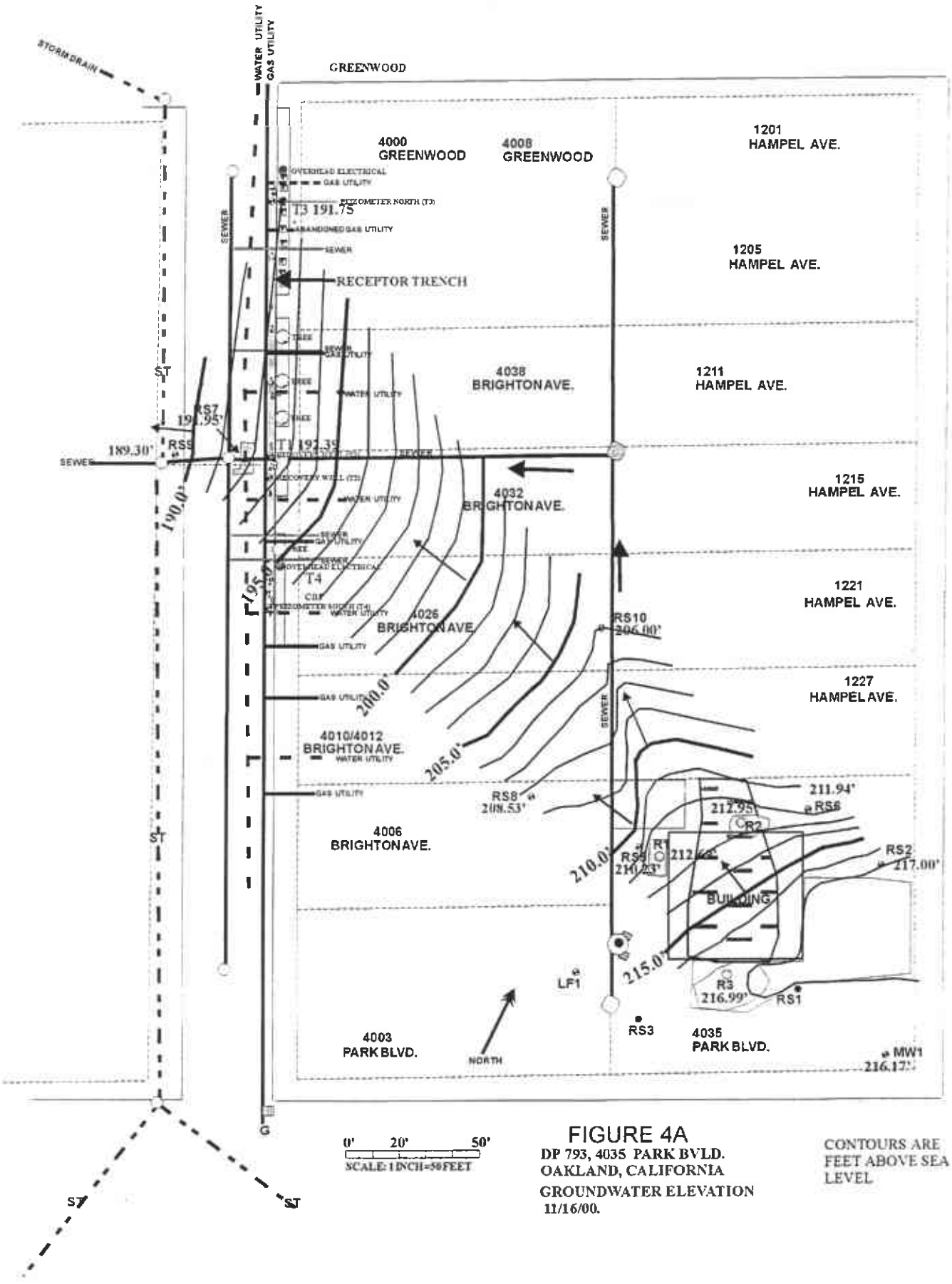


FIGURE 4A
DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION
11/16/00.

CONTOURS ARE FEET ABOVE SEA LEVEL

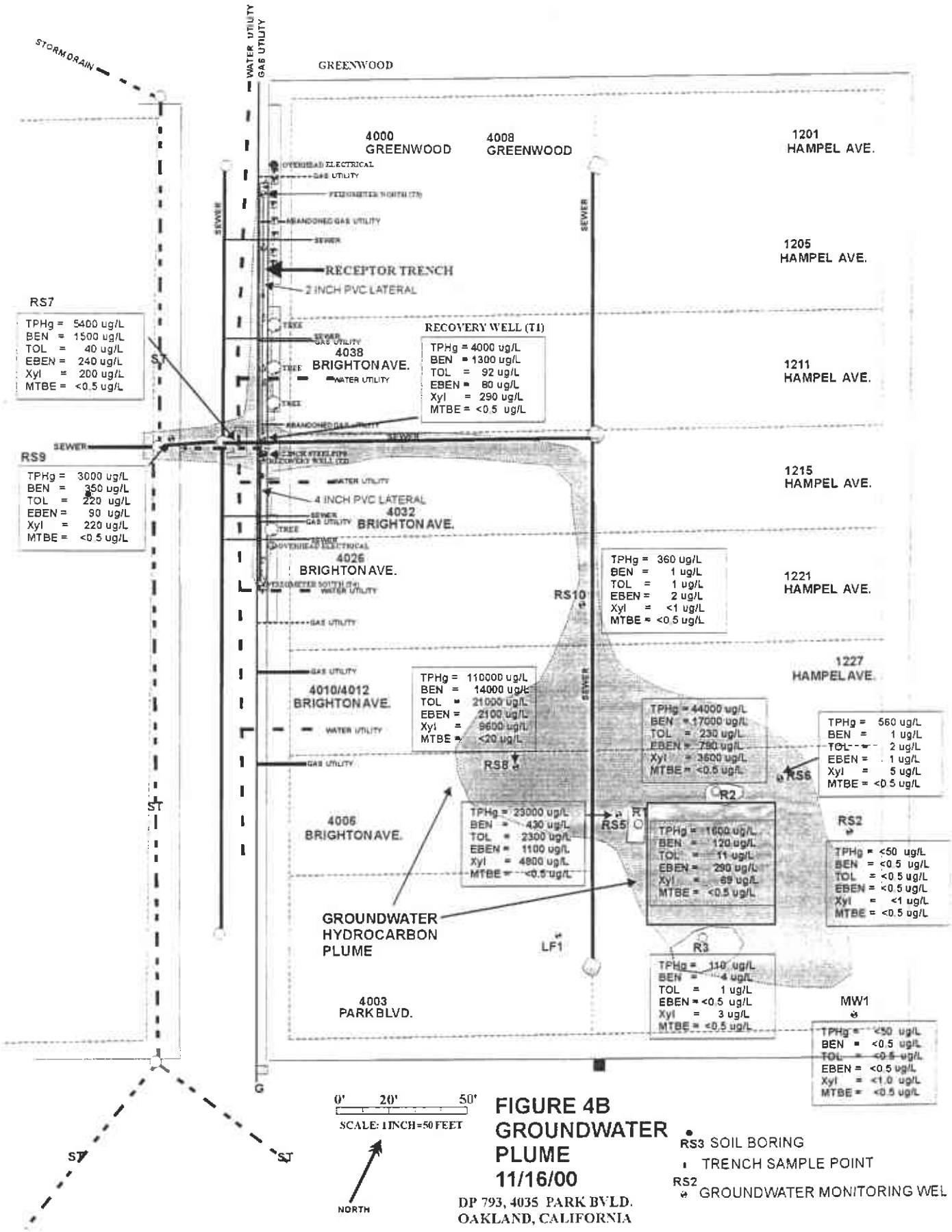


FIGURE 4B
GROUNDWATER PLUME
11/16/00

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA

APPENDIX A

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 4øC 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) are also noted on the COC form. Each person relinquishing custody of the sample set signs the COC form indicating the date and time of the transfer to the recipient. A copy of the COC follows the samples or their extracts throughout the laboratory to aid the analyst in identifying the samples and to assure analysis within holding times.

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

WESTERN GEO-ENGINEERS
1388 EAST HEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 735
WELL MW 1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	13.33 DTB	18.32
FLUID ELEVATION	216.17'	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
7:39	1 Bailer	57.3	7.64	.19
7:42	2 gal	63.3	7.95	.25
7:44	1	65.1	7.95	.25

FINAL VOLUME PURGED	3 gal
TIME SAMPLED	746
SAMPLE ID.	MW 1
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Color

WESTERN GEO-ENGINEERS
1388 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 950
WELL RS2	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	10.39 DTB 18.40	
FLUID ELEVATION	217.0'	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
951	1 Bailer	57.4	6.80	.42
953	12 gal	62.2	7.68	.45
758	1	63.9	7.97	.47
800	1	64.8	7.96	.47

FINAL VOLUME PURGED	14 gal
TIME SAMPLED	802
SAMPLE ID.	RS2
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy No Odor

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WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 845
WELL RS 5	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 17.38	DTB 39.20	
FLUID ELEVATION 210.23'		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD				
TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
846	1 Bailer	56.4	6.01	.35
903	40 gal	60.3	6.88	.45
905	1	61.2	7.02	.41
907	1	61.5	7.02	.37
909	1	61.9	7.03	.37

FINAL VOLUME PURGED	43 gal
TIME SAMPLED	910
SAMPLE ID.	RS 5
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1st Bailer Clear Strong Odor

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 810
WELL RS 6	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	1528 DTB 34.02	
FLUID ELEVATION	211.94'	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD				
TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
812	1 Bailer	55.5	6.18	.42
819	25 gal	61.1	6.50	.58
826	1	63.1	6.36	.61
828	1	62.9	6.34	.60

FINAL VOLUME PURGED	27 gal
TIME SAMPLED	829
SAMPLE ID.	RS 6
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

WESTERN GEO-ENGINEERS
1588 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 1024
WELL RS7	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 4.04	DTB 7.0	
FLUID ELEVATION 191.95'		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1026	1 Bailer	75.6	6.88	1.04
1028	6 gal	74.9	6.68	.97
1029	1	73.2	6.89	.89
1031	1	73.1	6.61	.86
1033	1	73.0	6.62	.81
1034	1	71.2	6.62	.78
1035	1	71.0	6.63	.78

FINAL VOLUME PURGED	11 gal
TIME SAMPLED	1036
SAMPLE ID.	RS7
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear. Some Odor

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 942
WELL RS8	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 6.14	DTB 14.4	
FLUID ELEVATION 208.53'		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
945	1 Bailer	70.0	6.66	.98
948	4 gal	64.5	6.98	.65
949	1	62.5	6.60	.54
950	1	61.5	6.68	.51
951	1	61.3	6.66	.50

FINAL VOLUME PURGED	7 gal
TIME SAMPLED	952
SAMPLE ID.	RS8
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Some Odor

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 1010
WELL R9	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	6.33 DTB 12.3	
FLUID ELEVATION	189.30'	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1011	1 Bailer	61.0	5.69	.58
1014	3 gal	65.6	6.48	.77
1016	1	73.7	6.68	.76
1018	1	73.6	6.66	.74

FINAL VOLUME PURGED	5 gal
TIME SAMPLED	1019
SAMPLE ID.	R59
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Slight Same Odor

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WOODLAND, CALIFORNIA 95695
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WELL SAMPLING DATA SHEET

SITE 0P 793	DATE 11-16-00	TIME 956
WELL RS 16	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 2.46 DTB 9.6		
FLUID ELEVATION 206.00'		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
958	1 Bailer	56.5	5.98	.30
1002	4 gal	59.5	5.68	.24
1003	1	61.0	5.66	.24
1004	1	61.2	5.68	.24

FINAL VOLUME PURGED 6 gal

TIME SAMPLED 1005

SAMPLE ID. RS 10

SAMPLE CONTAINERS 2/40cc VOA s

ANALYSIS TO BE RUN TPHg BTEX/MTBE

LABORATORY NSE

NOTES: 1ST Bailer Clear Slight odor

2b1

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1588 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 9:10
WELL R1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	15— DTB 16.92	
FLUID ELEVATION	212.69'	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD				
TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
912	1 Bailer	57.5	7.03	.28
915	10 gal	59.8	7.83	.29
916	1 "	61.0	7.82	.35
918	1	61.3	7.83	.34

FINAL VOLUME PURGED	12 gal
TIME SAMPLED	920
SAMPLE ID.	R1
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Strong Odor

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 833
WELL R2	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	14.33 DTB 16.8	
FLUID ELEVATION	212.95	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
835	1 Bailer	57.6	6.19	.50
837	10 gal	60.0	6.86	.52
838	1	62.1	7.03	.53
839	1	62.9	7.03	.53

FINAL VOLUME PURGED	12 gal
TIME SAMPLED	840
SAMPLE ID.	R2
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Strong Odor

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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 925
WELL R3	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	10.26 DTB 11.74	
FLUID ELEVATION	216.99'	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
927	1 Bailer	80.7	6.31	.50
928	2 gal	66.4	6.60	.56
929	1	68.7	6.63	.62
930	1	68.9	6.68	.65
931	1	69.1	6.69	.65

FINAL VOLUME PURGED	5 gal
TIME SAMPLED	932
SAMPLE ID.	R3
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear STINKY

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME 1040
WELL T1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	2.72 DTB 14.2	
FLUID ELEVATION	192.39	
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1041	1 Bailer	76.2	6.89	.86
	gal			

FINAL VOLUME PURGED	gal
TIME SAMPLED	1042
SAMPLE ID.	T1
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Slight odor

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1388 EAST BEAMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 11-16-00	TIME
WELL T2	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	DTB 14.6	
FLUID ELEVATION		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

T3
10.63 DTW
141.75 elev

T4 car

WELL PURGING RECORD				
TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
	1 Bailer			
	gal			
	CAR			

FINAL VOLUME PURGED	gal
TIME SAMPLED	
SAMPLE ID. T2	
SAMPLE CONTAINERS 2/40cc VOA's	
ANALYSIS TO BE RUN TPHg BTEX/MTBE	
LABORATORY NSE	
NOTES: 1ST Bailer	

David Pittman Well Purge

Post Office Box 90, Goodyears Bar, CA 95944-0090
530/289-3133

DATE 111600 INVOICE 0105

DP

SITE NAME #793 OAKLAND CUSTOMER WESTERN GEO ENG

ADDRESS
CITY/STATE
PHONE

WELL	#	DESCRIPTION OF WORK PERFORMED
RS	7	6 GALLONS PURGED
MW	1	7
RS	7	12
RS	6	25
R	2	10
RS	5	40
RS	9	3
RS	10	4
RS	8	4
R	1	10
R	3	2

	HOURS	MINUTES
ARRIVAL TIME	6	45
DEPARTURE TIME	12	00
TOTAL TIME AT SITE	5	15

@ $45.00 PER HOUR TOTAL LABOR $ 236.25

TRAVEL TIME FROM NEWARK TO OAK TO GV
4 HOURS @ $45.00 PER HOUR TOTAL TRAVEL $ 180.00

170 MILES @ $.40 PER MILE TOTAL MILEAGE $ 68.00

INVOICE TOTAL = $ 484.25

To Celura 11/30/00

APPENDIX B.

RECEPTOR TRENCH WEEKLY PURGING FIELD NOTES

FORMER DESERT PETROLEUM SITE DP 793

4035 PARK BLVD
OAKLAND, CALIFORNIA 94602
WASTE WATER DISCHARGE PERMIT NUMBER 5M03550 I

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

DATE 9-21-00 REASON FOR SITE VISIT Inspect & MAINT.

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP	COND

TRENCH WELL T2				
PID	DTW	pH	TEMP	COND

TRENCH WELL T3				
PID	DTW	pH	TEMP	COND

TRENCH WELL T4				
PID	DTW	pH	TEMP	COND

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1				
RS2				
RS5				
RS6				
RS7				
RS8				

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9				
RS10				
R1				
R2				
R3				

COMMENTS Setup Temporary Containment area under Tank & carbons

ELECTRIC METER WATER METER

SAMPLES SITE MONITORED BY Broadway

WASTEWATER

	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/_____MINUTES GALLONS PURGED_____ PRESSURE WATER CARBONS #1_____PSI #2_____ PSI
T2 FLOW RATE ___ GALLONS/_____MINUTES GALLONS PURGED_____

FILTER INSPECTION AND COMMENTS _____

WATER PHASE CARBON UNITS INSPECTION COMMENTS _____

CONDITION OF COMPOUND COMMENTS Pile of branches and leaves behind Building

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

FORMER DESERT PETROLEUM SITE DP 793

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

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

DATE 10-5-00 REASON FOR SITE VISIT Weekly Pump Insp Maint

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP	COND
1450		2.81			
1710		3.14			

TRENCH WELL T2				
PID	DTW	pH	TEMP	COND

TRENCH WELL T3				
PID	DTW	pH	TEMP	COND

TRENCH WELL T4				
PID	DTW	pH	TEMP	COND

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1				
RS2				
RS5				
RS6				
RS7				
RS8				

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9				
RS10				
R1				
R2				
R3				

COMMENTS: Set up New Pump and Hose - direct connect to carbon - Need quick connects

ELECTRIC METER ...1...

WATER METER 1124253 1124253 5?

SAMPLES None

SITE MONITORED BY Boundary

WASTEWATER		
	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 _____ PSI #2 1.0 PSI

FILTER INSPECTION AND COMMENTS ~~OK~~

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS Clean

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

FORMER DESERT PETROLEUM SITE DP 793

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

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

DATE 10-12-00 REASON FOR SITE VISIT weekly purge T1

Start pump 2:35 / 1512

TIME	TRENCH WELL T1 PID	DTW	pH	TEMP	COND
1350		2.40			
[illegible]	[illegible]	2.75			
15:20		2.60			
1535		2.68			
1605		2.82			

TRENCH WELL T2 PID	DTW	pH	TEMP	COND

TRENCH WELL T3 PID	DTW	pH	TEMP	COND

TRENCH WELL T4 PID	DTW	pH	TEMP	COND

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1				
RS2				
RS5				
RS6				
RS7				
RS8				

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9				
RS10				
R1				
R2				
R3				

COMMENTS Set up hose, [illegible] & pump. Start pumping 2:35 [illegible] [illegible] 2:45 @ 4.5 gpm

ELECTRIC METER

WATER METER 11241.53 start 11246600

SAMPLED

SITE MONITORED BY Connie

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 2.8 PSI, #2 0 PSI,

FILTER INSPECTION AND COMMENTS ____

WATER PHASE CARBON UNITS INSPECTION COMMENTS good no signs of rust/wear

CONDITION OF COMPOUND COMMENTS 2nd Containment good

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

FORMER DESERT PETROLEUM SITE DP 793

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

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

DATE 10-19-00

REASON FOR SITE VISIT Weekly pump & MAINTANANCE

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
1300					

TRENCH WELL T2

PID	DTW	pH	TEMP	COND
	2.57			

TRENCH WELL T3

PID	DTW	pH	TEMP	COND
	CAP			

TRENCH WELL T4

PID	DTW	pH	TEMP	COND
	5.57			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1	13.17			
RS7	13.15			
RS5	19.43			
RS6	12.53			
RS7	4.17			
RS8	8.42			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	5.11			
RS10	2.25			
R1	15.17			
R2	14.84			
R3	11.09			

COMMENTS

ELECTRIC METER —

WATER METER 11259043

SAMPLES

SITE MONITORED BY S Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1_____PSI #2 1.0 PSI

FILTER INSPECTION AND COMMENTS —

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS Clean

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

FORMER DESERT PETROLEUM SITE DP 793

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

WASTE WATER PRE TREATMENT: SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM DAILY 2880 GALLONS

DATE 10-26-00 REASON FOR SITE VISIT Weekly Pump & Inspect

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
8:30		2.22			

TRENCH WELL T2

PID	DTW	pH	TEMP	COND
	CAR			

TRENCH WELL T3

PID	DTW	pH	TEMP	COND
	CAR			

TRENCH WELL T4

PID	DTW	pH	TEMP	COND
	CAR			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1	10.59		10.59	
RS2	9.71			
RS5	15.08			
RS6	12.62			
RS7	4.09			
RS8	3.98			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	6.75			
RS10	7.56			
R1	13.37			
R2	12.89			
R3	9.67			

COMMENTS

ELECTRIC METER —

WATER METER 1127167.0

SAMPLED

SITE MONITORED BY Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 ___ PSI #2 1.2 PSI

FILTER INSPECTION AND COMMENTS OK

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS Clean

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

FORMER DESERT PETROLEUM SITE DP 793

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

WASTE WATER PRE TREATMENT: SEDIMENT SETTLING TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 7 GPM DAILY 2880 GALLONS

DATE 11-9-00 REASON FOR SITE VISIT Weekly Pump & Maintanance

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
1315		2.49			

TRENCH WELL T2

PID	DTW	pH	TEMP	COND

TRENCH WELL T3

PID	DTW	pH	TEMP	COND
	CAR			

TRENCH WELL T4

PID	DTW	pH	TEMP	COND
	CAR			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1	12.88			
RS2	10.16			
RS5	17.17			
RS6	13.04			
RS7	9.04			
MW8	6.18			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	2.04			
RS10	2.20			
R1	14.99			
R2	14.58			
R3	10.16			

COMMENTS Grass and weeds starting to grow

ELECTRIC METER —

WATER METER 1128367.2

SAMPLED

SITE MONITORED BY Broadway

WASTEWATER

	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/____ MINUTES GALLONS PURGED_____

T2 FLOW RATE ___ GALLONS/____ MINUTES GALLONS PURGED_____

PRESSURE WATER CARBONS #1____PSI #2____PSI

FILTER INSPECTION AND COMMENTS —

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS Clean

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

FORMER DESERT PETROLEUM SITE DP 793

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

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

DATE 11-16-00 REASON FOR SITE VISIT 4/4/y & pump

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND

TRENCH WELL T2

PID	DTW	pH	TEMP	COND

TRENCH WELL T3

PID	DTW	pH	TEMP	COND

TRENCH WELL T4

PID	DTW	pH	TEMP	COND

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1				
RS2				
RS5				
RS6				
RS7				
RS8				

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9				
RS10				
R1				
R2				
R3				

COMMENTS DTW on weekly next

ELECTRIC METER ——— WATER METER 1129779.5

SAMPLED Y/4/y SITE MONITORED BY Broadway

WASTEWATER

	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 19 PSI #2 ___ PSI

FILTER INSPECTION AND COMMENTS ———

WATER PHASE CARBON UNITS INSPECTION COMMENTS ok

CONDITION OF COMPOUND COMMENTS Clean

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

FORMER DESERT PETROLEUM SITE DP 793

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

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

DATE 11-22-00 REASON FOR SITE VISIT Weekly Maintenance

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
0830		2.72			

TRENCH WELL T2

PID	DTW	pH	TEMP	COND
	CAR			

TRENCH WELL T3

PID	DTW	pH	TEMP	COND
	10.63			

TRENCH WELL T4

PID	DTW	pH	TEMP	COND
	CAR			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1	13.33			
RS2	10.39			
RS5	12.38			
RS6	15.28			
RS7	8.07			
RS8	6.14			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	9.42			
RS10	9.46			
R1	15			
R2	14.33			
R3	10.26			

COMMENTS: complainer @ 4038 wants something under truck to catch oil drips that would stain street

ELECTRIC METER

WATER METER 1130940.5

GAUGE

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 .9 PSI #2 ___ PSI

FILTER INSPECTION AND COMMENTS: _____

WATER PHASE CARBON UNITS INSPECTION COMMENTS: OK

CONDITION OF COMPOUND COMMENTS: Clean

Acceptance of water phase carbon units only if completely flooded with water _____ yes _____ no - return to carbon manufacturer
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 manufacturer

APPENDIX C.

LABORATORY REPORTS

North State Environmental Laboratory
CA ELAP # 1753
90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 00-1740
Client: Western Geo-Engineers
Project: DP793 Park Blvd.

Date Reported: 11/29/2000

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 00-1740-01 Client ID: MW1				11/16/2000	WATER
Gasoline	8015M	ND			11/20/2000
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 00-1740-02 Client ID: R1				11/16/2000	WATER
Gasoline	8015M	1600	ug/L		11/20/2000
Benzene	8020	120	ug/L		
Ethylbenzene	8020	290	ug/L		
MTBE	8020	ND			
Toluene	8020	11	ug/L		
Xylenes	8020	69	ug/L		
Sample: 00-1740-03 Client ID: R2				11/16/2000	WATER
Gasoline	8015M	44000	ug/L		11/20/2000
Benzene	8020	17000	ug/L		
Ethylbenzene	8020	790	ug/L		
MTBE	8020	ND			
Toluene	8020	230	ug/L		
Xylenes	8020	3600	ug/L		

*Confirmed by GC/MS method 8260.

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 00-1740
Client: Western Geo-Engineers
Project: DP793 Park Blvd.

Date Reported: 11/29/2000

Gasoline,BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 00-1740-04 Client ID: R3				11/16/2000	WATER
Gasoline	8015M	110	ug/L		11/20/2000
Benzene	8020	4	ug/L		
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	1	ug/L		
Xylenes	8020	3	ug/L		
Sample: 00-1740-05 Client ID: RS2				11/16/2000	WATER
Gasoline	8015M	ND			11/20/2000
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 00-1740-06 Client ID: RS5				11/16/2000	WATER
Gasoline	8015M	23000	ug/L		11/20/2000
Benzene	8020	430	ug/L		
Ethylbenzene	8020	1100	ug/L		
MTBE	8020	*ND			
Toluene	8020	2300	ug/L		
Xylenes	8020	4800	ug/L		

*Confirmed by GC/MS method 8260.

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 00-1740
Client: Western Geo-Engineers
Project: DP793 Park Blvd.

Date Reported: 11/29/2000

Gasoline,BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 00-1740-07 Client ID: RS6				11/16/2000	WATER
Gasoline	8015M	560	ug/L		11/20/2000
Benzene	8020	1	ug/L		
Ethylbenzene	8020	1	ug/L		
MTBE	8020	ND			
Toluene	8020	2	ug/L		
Xylenes	8020	5	ug/L		
Sample: 00-1740-08 Client ID: RS7				11/16/2000	WATER
Gasoline	8015M	5400	ug/L		11/20/2000
Benzene	8020	1500	ug/L		
Ethylbenzene	8020	240	ug/L		
MTBE	8020	ND			
Toluene	8020	40	ug/L		
Xylenes	8020	200	ug/L		
Sample: 00-1740-09 Client ID: RS8				11/16/2000	WATER
Gasoline	8015M	110000	ug/L		11/20/2000
Benzene	8020	14000	ug/L		
Ethylbenzene	8020	2100	ug/L		
MTBE	8020	*ND<20	ug/L		
Toluene	8020	21000	ug/L		
Xylenes	8020	9600	ug/L		

*Confirmed by GC/MS method 8260.

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 00-1740
Client: Western Geo-Engineers
Project: DP793 Park Blvd.

Date Reported: 11/29/2000

Gasoline,BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 00-1740-10 Client ID: RS9				11/16/2000	WATER
Gasoline	8015M	3000	ug/L		11/20/2000
Benzene	8020	350	ug/L		
Ethylbenzene	8020	90	ug/L		
MTBE	8020	ND			
Toluene	8020	220	ug/L		
Xylenes	8020	220	ug/L		
Sample: 00-1740-11 Client ID: RS10				11/16/2000	WATER
Gasoline	8015M	360	ug/L		11/20/2000
Benzene	8020	1	ug/L		
Ethylbenzene	8020	2	ug/L		
MTBE	8020	ND			
Toluene	8020	1	ug/L		
Xylenes	8020	ND			
Sample: 00-1740-12 Client ID: T1				11/16/2000	WATER
Gasoline	8015M	4000	ug/L		11/20/2000
Benzene	8020	1300	ug/L		
Ethylbenzene	8020	80	ug/L		
MTBE	8020	ND			
Toluene	8020	92	ug/L		
Xylenes	8020	290	ug/L		

*Confirmed by GC/MS method 8260.

North State Environmental Laboratory
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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 00-1740
Client: Western Geo-Engineers
Project: DP793 Park Blvd.

Date Reported: 11/29/2000

Gasoline,BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 00-1740-13 Client ID: SEWER DISCHARGE				11/16/2000	WATER
Gasoline	8015M	ND			11/20/2000
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	0.6	ug/L		
Xylenes	8020	ND			

*Confirmed by GC/MS method 8260.

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C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 00-1740
Client: Western Geo-Engineers
Project: DP793 Park Blvd.

Date Reported: 11/29/2000

Gasoline,BTEX and MTBE by Methods 8015M and 8020

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Gasoline	8015M	50	ug/L	ND	116	3
Benzene	8020	0.5	ug/L	ND	95	3
Toluene	8020	0.5	ug/L	ND	92	4
Ethylbenzene	8020	0.5	ug/L	ND	93	3
Xylenes	8020	1.0	ug/L	ND	96	3
MTBE	8020	0.5	ug/L	ND	110	3

ELAP Certificate NO:1753
Reviewed and Approved

John A.Murphy,Laboratory Director

W021 00-1040

North State Environmental Analytical Laboratory

90 South Spruce Avenue, Suite W, South San Francisco, CA 94080
Phone: (650) 266-4563 Fax: (650) 266-4560

Chain of Custody / Request for Analysis
Lab Job No.:_____ Page___ of___

Client: WEGE	Report to: George	Phone: 530 668 5300	Turnaround Time
Mailing Address: Westen Geo Engineers, 1386 E. Beamer St. Woodland, CA 95776	Billing to: WEGE	Fax: 530 662 0273	
		PO# / Billing Reference:	Date: 11-16-00
			Sampler: Broadway

Project / Site Address: DP793 Park Blvd

Analysis Requested: TPHg BTEX MTBE

	Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	Comments / Hazards
1	MW1	H_2O	2 VOA's	HCl	11/14/00 746	
2	R1				920	
3	R2				840	
4	R3				932	
5	RS2				802	
6	RS5				910	
7	RS6				829	
8	RS7				1036	
9	RS8				952	
10	RS9				1019	
11	RS10				1005	
12	T1				1042	
13	Sewer discharge				1100	

				Lab Comments
Relinquished by: Stephen Broadway	Date: 11/16/00	Time: 12:28	Received by: NSE	
Relinquished by:	Date:	Time:	Received by: CAES	
Relinquished by:	Date:	Time:	Received by:	

MTBE IN WELLS