FIRST QUARTER 2001 UPDATE STATUS REPORT
DP 793
4035 PARK BLVD.
OAKLAND, CALIFORNIA

FOR

DESERT PETROLUEM INC.

BY

-WEGE-
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April 3, 2001

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Mr. John Rutherford
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April 3, 2001

Dear Mr. Rutherford:

The following report documents the First Quarter 2001 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

STATION PROPERTY

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

BACKYARD SEWER LATERAL ROUTE

Assessments performed along the sewer lateral as it leaves the site and routes through the residential area towards Brighton Avenue show the subsurface to 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.

BRIGHTON AVENUE

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

3.0 COLLECTION AND ANALYSIS OF GROUNDWATER SAMPLES, MARCH 8, 2001

The first quarter sampling occurred on March 8, 2001. 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 March 8, 2001.

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. Kiff Analytical LLC (DHS certified #2236) Laboratories analyzed all water samples for concentrations of TPH-G, BTEX, and MTBE using EPA method 8260B (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 MTBE in wells RS-5, RS-7 and recovery trench T1. The November 24, 1998 was the first occurrence of MTBE and was associated with the upgradient wells MW-1 and RS-2. This suggests an offsite source for the MTBE. 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 March 21, 2001 71,001 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 March 8, 2001. 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. As shown on Figure 4A, a cone of influence has

developed that extends out to offsite well RS-8. This influence can also be see by comparing the groundwater elevation charts generated for each well. These charts show a increase in groundwater elevation for wells MW1 (1.03'), RS-2 (3.77'), RS-6 (5.18'), RS-7 (0.1'), and RS-9 (1.4') while the pumping well, RS-5, decreased in groundwater elevation by 10.34', and RS-8 decreased by 3.26' and RS-10 decreased by 0.36'. Table 1 shows the groundwater elevations for the wells during the assessment of this site.

The current flow direction is west northwest. The hydraulic gradient averages 0.09 feet/linear foot downgradient of RS-10 outside the influence of pumping from RS-5, 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 March 8, 2001 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 25 mg/l at T1, to below laboratory lower detection limits of 50 ug/L in wells MW1, R1 and RS3 respectively. Benzene concentrations ranged from a maximum of 4.4 mg/L in T1 to below the laboratory lower detection limits (0.5 ug/L) at wells MW1, RS2, RS6, RS10, R1 and R3.

Analysis results for Oxygenant Methyl-t-Butyl Ether (MTBE) was below the laboratory lower detection limit (0.5 ug/L) in wells MW1, RS2, RS6, RS8. RS9, RS10, R1, R2 and R3. Pumping well RS5 contained 2.6 ug/L MTBE, Trench well T1 contained 26 ug/l MTBE and well RS7 contained 17 ug/L. 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 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. As of March 21, 2001, 60,779 gallons of contaminated groundwater have been removed from the trench and processed through two, in series, activated carbon water scrubs discharging 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 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 March 21, 2001. On March 21, 2001 during site inspection it was determined that the pump was not able to lift groundwater from the well and discharge through the water carbon units. The pump was brought back to the WEGE shop for inspection. Inspection and cleaning of the pump determined that the pump was no longer capable of pumping water and a new pump was ordered. From February 15 through March 14, 2001 22,758 gallons of gasoline contaminated groundwater was recovered from RS-5 and treated through carbon before being discharged to the sewer.

The pumping from RS-5 has lowered the groundwater at this well by at least 10.35 feet, when compared to the previous water measurements. And has created a cone of influence out to offsite wells RS-8 and RS-10, see Figure 4A. Also 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) which should aid in the biodegradation of the hydrocarbon plume, see Table 4.

7.0 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 50 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 50 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.

8.0 SUMMARY

Since the installation and weekly purging of the receptor trench (T1) TPHg concentrations in down gradient wells RS-7 and RS-9 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.

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.

9.0 RECOMMENDATIONS

- Continue the weekly four hour purge of T1.
- Replace the pump in RS-5 and set the pump rate at 2 gpm.
- 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 once nutrient augmentation commences.

10.0 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.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	3/8/01	229.5	12.30	217.2		<50	<0.5	<0.5	< 0.5	< 0.5	< 0.5	**

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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	3/8/01	227.39	6.62	220.77		< 50	<0.5	<0.5	<0.5	<0.5	<0.5	**

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	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	3/8/01	227.61	27.72	199.89		11000	360	260	140	1500	2.6	**

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	5/20/97	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	3/8/01	227.22	10.10	217.12		2200	<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)	
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	22000	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	3/8/01	195.99	3.94	192.05		12000	3300	260	480	850	17	**

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	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-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 **

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-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 **

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	
RECOVERY 1	3/8/01	227.69	13.72	213.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	**
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	3	*
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	3	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	
RECOVERY 2	3/8/01	227.28	11.15	216.13	2300	640	8.6	61	170	<2	**

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	
RECOVERY 3	3/8/01	227.25	6.54	220.71		<50	<0.5	<0.5	<0.5	<0.5	<0.5	**
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	**

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 2	3/8/01	195.3									
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 3	3/8/01	202.38		202.38							
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								
T 4	3/8/01	197.48									
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								
LF-1	3/8/01	226.59									

ND BELOW LABORATORY DETECTION LIMITS
TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
* MTBE results confirmed by EPA Method 8260 (GC/MS)
** SAMPLES ANALYZED USING EPA METHOD 8260B
*** 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	0.00					
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	31950	0.00					
F1 (PSP No. 1)	10/5/00		1124153	334	32833	0.02					
F1 (PSP No. 1)	10/12/00		1124660	507	32457	0.05					
F1 (PSP No. 1)	10/19/00		1125904.3	1244	34077	0.12					
F1 (PSP No. 1)	10/26/00		1127167	1263	33720	0.13					
F1 (PSP No. 1)	11/9/00		1128367.2	1200	35278	0.06					
F1 (PSP No. 1)	11/16/00		1129779.5	1412	35132	0.14					
F1 (PSP No. 1)	11/22/00		1130940.5	1161	36439	0.13					
F1 (PSP No. 1)	12/1/00		1134147	3207	38339	0.25					

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
F1 (PSP No. 1)	12/7/00		1134289	142	36581	0.02	<1	<1	<1	<2	<2
F1 (PSP No. 1)	12/14/00		1134431	142	38481	0.01					
F1 (PSP No. 1)	12/21/00		1134573	142	36723	0.01					
F1 (PSP No. 1)	12/28/00		1134714.8	142	38622	0.01					
F1 (PSP No. 1)	1/11/01		1134714.8	0	36723	0.00					
F1 (PSP No. 1)	1/18/01		1135243.8	529	39151	0.05					
F1 (PSP No. 1)	1/25/01		1136144	900	37623	0.09					
F1 (PSP No. 1)	2/8/01		1136659	515	39666	0.03					<2
F1 (PSP No. 1)	2/15/01		1137441.4	782	38405	0.08					
F1 (PSP No. 1)	2/22/01		1141123.6	3682	43349	0.37					
F1 (PSP No. 1)	3/1/01		1150736.5	9613	48018	0.95					
F1 (PSP No. 1)	3/8/01		1158901.1	8165	51513	0.81	<1	<1	<1	<2	
F1 (PSP No. 1)	3/14/01		1162321.2	3420	51438	0.40					
F1 (PSP No. 1)	3/21/01		1162321.4	0	51513	0.00					

< 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.

TABLE 3
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	GALLONS PURGED T1	ACCUMULATED GALLONS REMOVED FROM TRENCH GALLONS	EPA METHOD 8020 TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L
WEGE	8/9/99			6.47	200	200						
WEGE	8/10/99			5.02	1730	1930						
WEGE	8/11/99			7.89	960	2890						
WEGE	8/12/99			8.12	800	3690						
WEGE	8/13/99			8.87	600	4290						
WEGE	9/2/99			2.2	3600	7890	40000	7200	5000	950	8100	53
WEGE	9/16/99			2.27	5131	13021						
WEGE	9/23/99			4.26	3351	16372						
WEGE	9/30/99			4.69	2786	19158						
WEGE	10/7/99			4.78	293	19451						
WEGE	1/25/00				0	19451						
WEGE	1/26/00				94	19545						
WEGE	1/28/00		1098330.0		0	19545						
WEGE	2/23/00		1102560.0		4230	23775	35000	2900	5700	720	6600	<0.5
WEGE	2/29/00		1109680.0	2.22	7120	30895						
WEGE	3/23/00		1109720.0		40	30935		1020	6500	1010	5090	
WEGE	5/4/00		1110780.0		1060	31995						
WEGE	5/12/00		1111700.0	2.19	920	32915						
WEGE	5/18/00		1113359.0	2.18	1659	34574						
WEGE	5/25/00		1113840.0		481	35055						
WEGE	5/31/00		1115111.0	2.15	1271	36326						
WEGE	6/16/00		1115823.0		712	37038						
WEGE	6/28/00		1116293.0	2.22	470	37508						
WEGE	6/30/00		1116303.0		10	37518	30000	3400	3200	950	4600	<5
WEGE	7/5/00		1116313.0		10	37528						
WEGE	7/6/00		1116313.0		0	37528						
WEGE	7/13/00		1117816.0		1503	39031						
WEGE	7/20/00		1118892.0	2.29	1076	40107						
WEGE	7/27/00		1118892.0	2.21	0	40107						
WEGE	8/3/00		1120336.0	2.9	1444	41551						
WEGE	8/10/00		1121041.0	2.75	705	42256	8900	1600	760	260	870	<5
WEGE	8/17/00		1121041.0	2.73	0	42256						
WEGE	8/24/00		1121860.0	2.75	819	43075						

TABLE 3
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	GALLONS PURGED T1	ACCUMULATED GALLONS REMOVED FROM TRENCH GALLONS	EPA METHOD 8020 TPHg ug/L	BENZENE ug/L	TOLUENE ug/L	ETHYL-BENZENE ug/L	XYLENES ug/L	MTBE ug/L
WEGE	8/30/00		1122720.0	2.75	860	43935						
WEGE	9/7/00		1123270.0	2.78	550	44485						
WEGE	9/14/00		1123810.0	2.79	540	45025						
WEGE	9/21/00		1123810.0		0	45025						
WEGE	10/5/00		1124253.0	2.81	443	45468						
WEGE	10/12/00		1124660.0	2.4	407	45875						
WEGE	10/19/00		1125904.3		1244	47119						
WEGE	10/26/00		1127167.0	2.22	1263	48382						
WEGE	11/9/00		1128367.2	2.87	1200	49582						
WEGE	11/16/00		1129779.5		1412	50995	4000	1300	92	80	290	<0.5
WEGE	11/22/00		1130940.5	2.72	1161	52156						
WEGE	12/1/00		1132147.0	2.21	1207	53362						
WEGE	12/7/00		1132147.0	2.21	0	53362						
WEGE	12/14/00		1132823.0	2.55	676	54038						
WEGE	12/21/00		1134087.4	2.3	1264	55302						
WEGE	12/28/00		1134714.8	2.32	627	55930						
WEGE	1/11/01		1134714.8	2.32	0	55930						
WEGE	1/18/01		1135243.8	2.3	529	56459						
WEGE	1/25/01		1136144.0	2.46	900	57359						
WEGE	2/8/01		1136659.0	2.3	515	57874						
WEGE	2/15/01		1137441.4	2.38	782	58656						
WEGE	2/22/01	1140664.5	1141123.6	2	459	59116						
WEGE	3/1/01	1150033.2	1150736.5	2.18	703	59819						
WEGE	3/8/01	1158270.7	1158901.1	2.18	630	60449	25000	4400	3400	770	3200	26
WEGE	3/14/01	1161991.1	1162321.2	2.49	330	60779						
WEGE	3/21/01	1162321.4	1162321.4	2.49	0	60779						

r 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

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

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

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DEPTH TO GROUND WATER (FEET)	FIELD MEASUREMENTS: GROUND WATER ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DISSOLVED OXYGEN O2 (MG/L)	FIELD MEASUREMENTS: SULFATE SO4 (MG/L)	FIELD MEASUREMENTS: NITRATE NO3 (MG/L)	FIELD MEASUREMENTS: FERROUS IRON FE2 (MG/L)	FIELD MEASUREMENTS: TEMPERATURE (F)	FIELD MEASUREMENTS: pH	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: TOTAL PETROLEUM HYDROCARBONS GASOLINE (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: CARBON DI OXIDE CO2 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: METHANE CH4 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
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	229.5	12.30	217.2	4.9				67.6	7.33	<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
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					
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
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
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					
RS-9	8/26/99	195.63	7.46	188.17	2.1	7	0	0.59	73.5	6.95	17					
	9/2/99	195.63	7.61	188.02					70.9	6.98		0.25	0.0021	10000	<1	<0.5
	3/8/01	195.63	4.93	190.7	8.1				62.7	6.89	<0.05					
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					
RECOVERY 1***	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
RECOVERY 2***	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
RECOVERY 3***	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
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					
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

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

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

ID#	DATE SAMPLED	WELL CASING ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DEPTH TO GROUND WATER (FEET)	FIELD MEASUREMENTS: GROUND WATER ELEVATION (FEET AMSL)	FIELD MEASUREMENTS: DISSOLVED OXYGEN O2 (MG/L)	FIELD MEASUREMENTS: SULFATE SO4 (MG/L)	FIELD MEASUREMENTS: NITRATE NO3 (MG/L)	FIELD MEASUREMENTS: FERROUS IRON FE2 (MG/L)	FIELD MEASUREMENTS: TEMPERATURE (F)	FIELD MEASUREMENTS: pH	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: TOTAL PETROLEUM HYDROCARBONS GASOLINE (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: CARBON DI OXIDE CO2 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: METHANE CH4 (MG/L)	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: AEROBIC HYDROCARBON DEGRADING BACTERIA CFU/ML	CERTIFIED LABORATORY RESULTS DISSOLVED IN WATER: ORTHO-PHOSPHATE PO4 (MG/L)	AMMONIA as NITROGEN N (MG/L)
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

***	NEW ELEVATION SURVEY	MG/L	milligrams per liter (ppm)	NA	Not Analyzed
nm	NOT MEASURED	F	degrees Fahrenheit	<	below laboratory lower detection limits.
CAR	CAR PARKED OVER WELL, NO ACCESS	CFU/ML	colony forming units per milliliter		

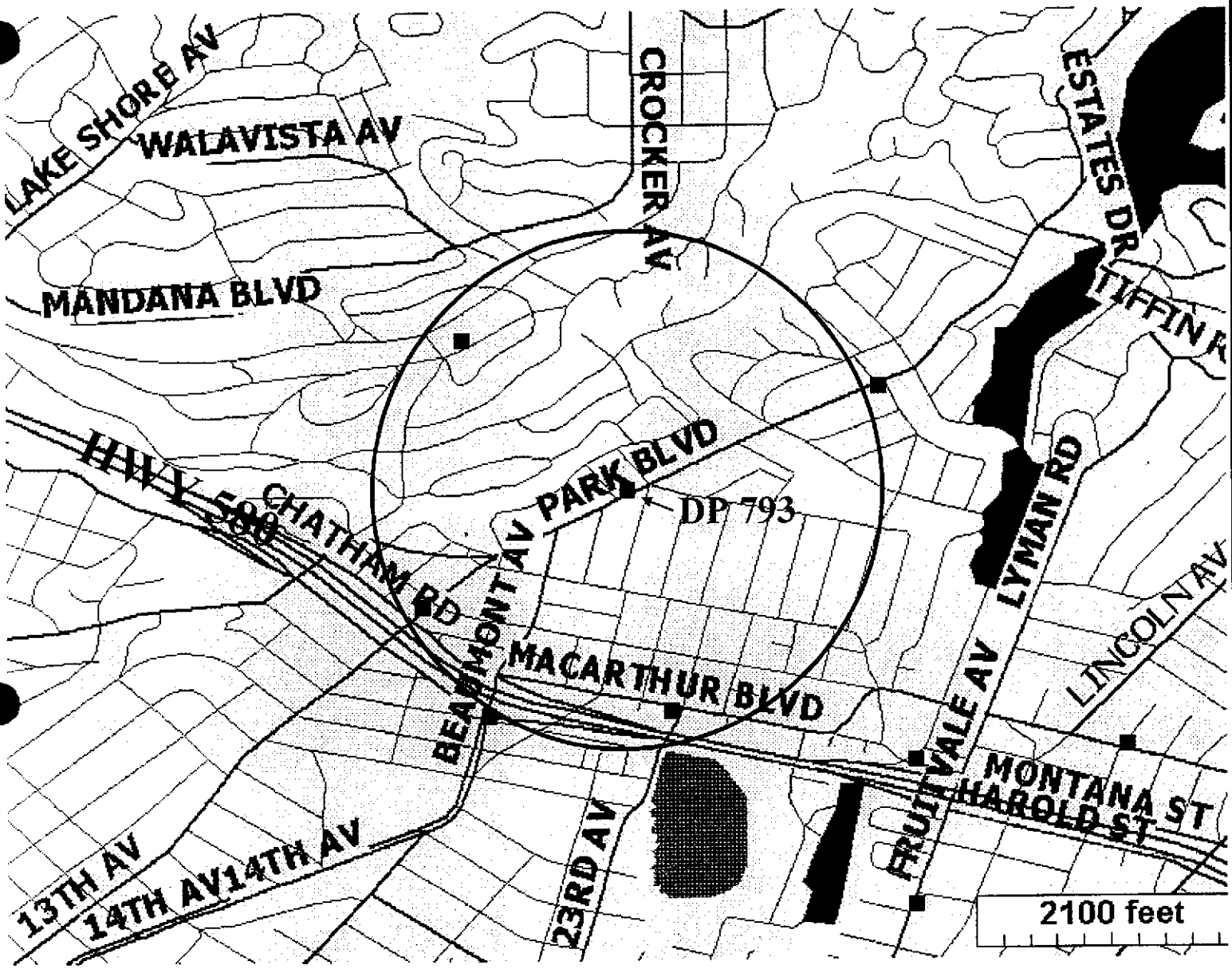


FIGURE 1
GEOTRACKER
AREA WELL & LUST MAP
DP 793
4035 PARK BLVD.
OAKLAND, CA

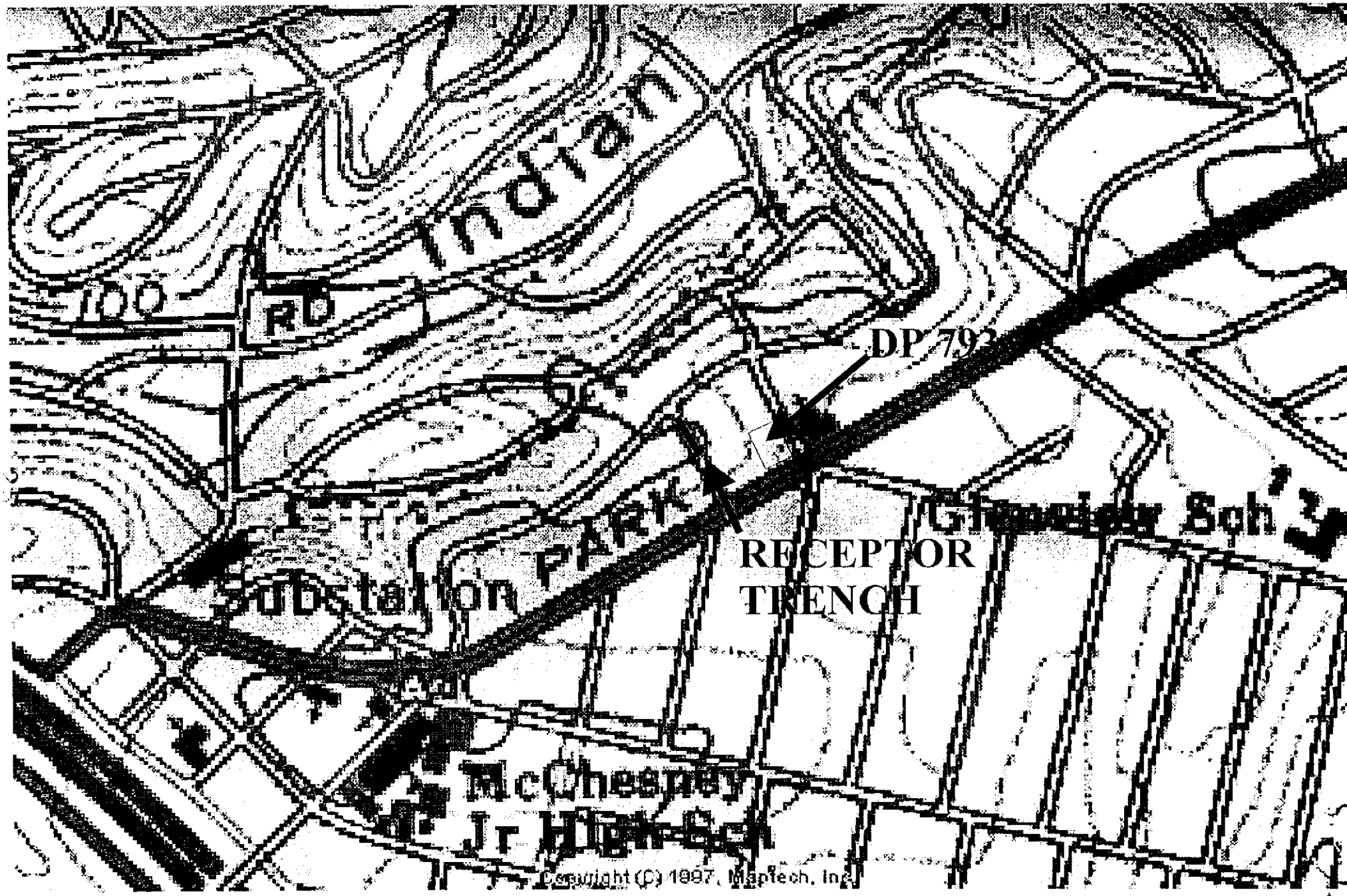


FIGURE 2
PORTION OF OAKLAND EAST 7.5 MINUTE USGS TOPOGRAPHIC MAP

NORT

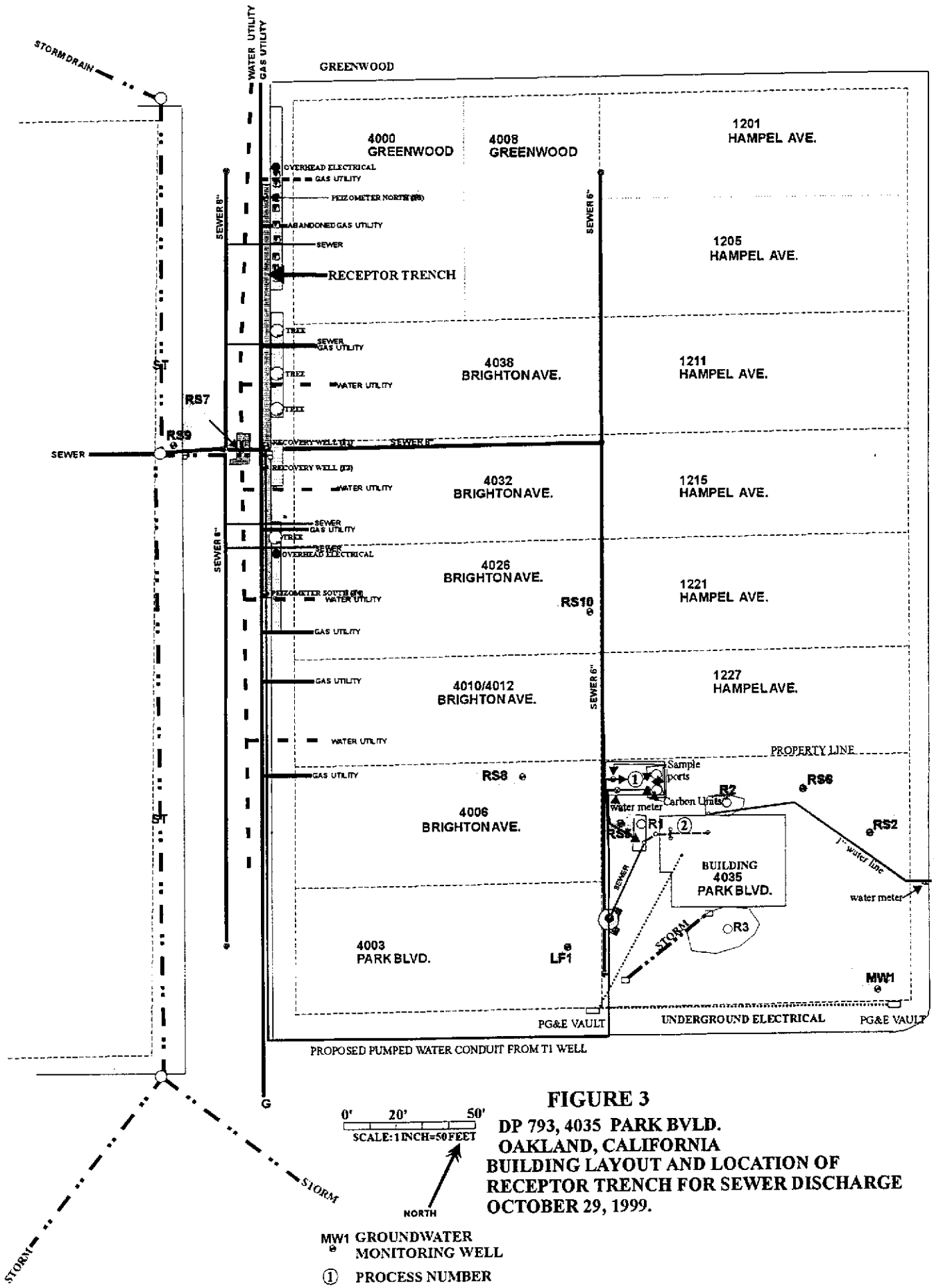


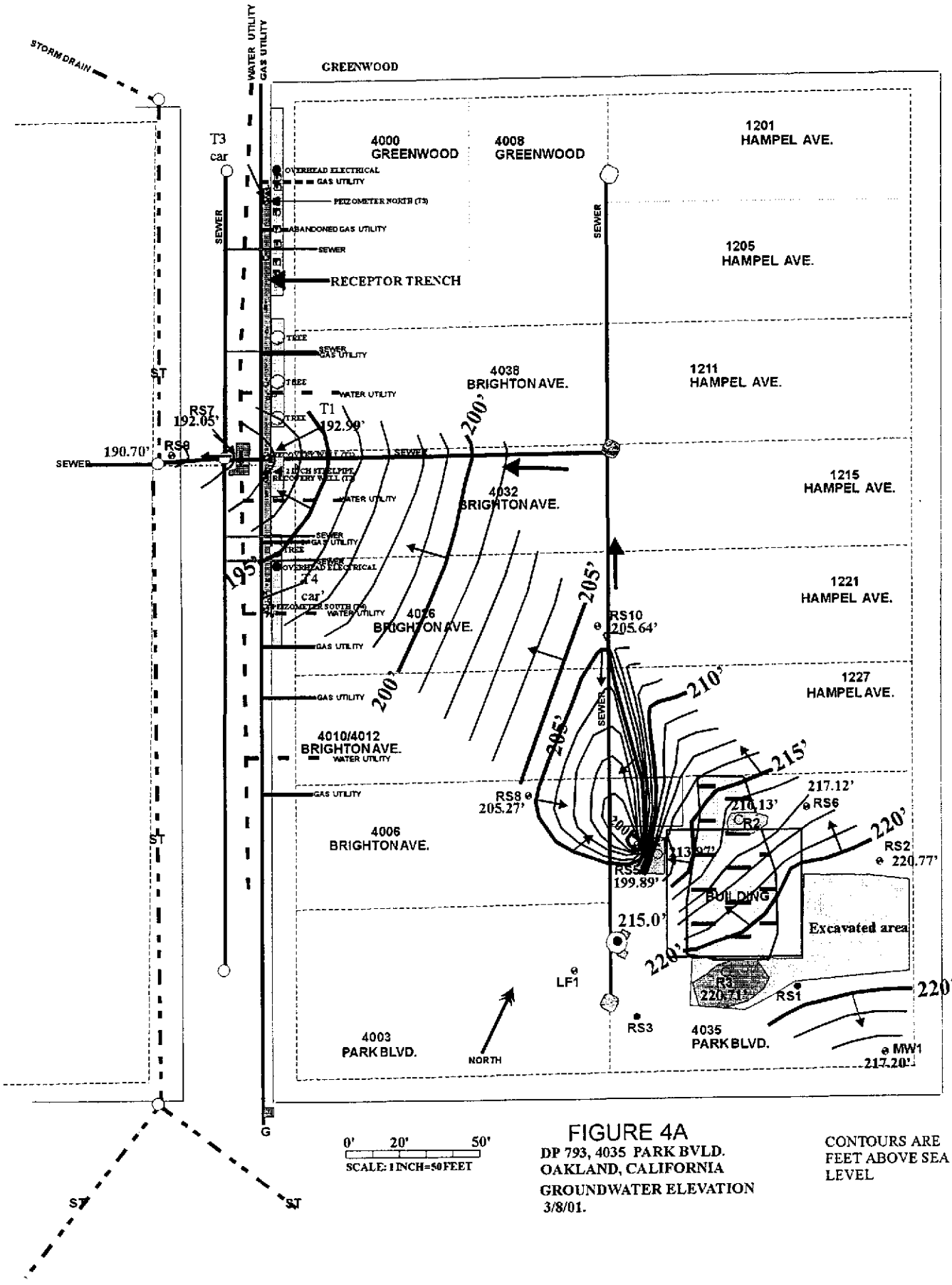
FIGURE 3

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



0' 20' 50'

SCALE: 1 INCH=50 FEET

FIGURE 4A

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION
3/8/01.

CONTOURS ARE FEET ABOVE SEA LEVEL

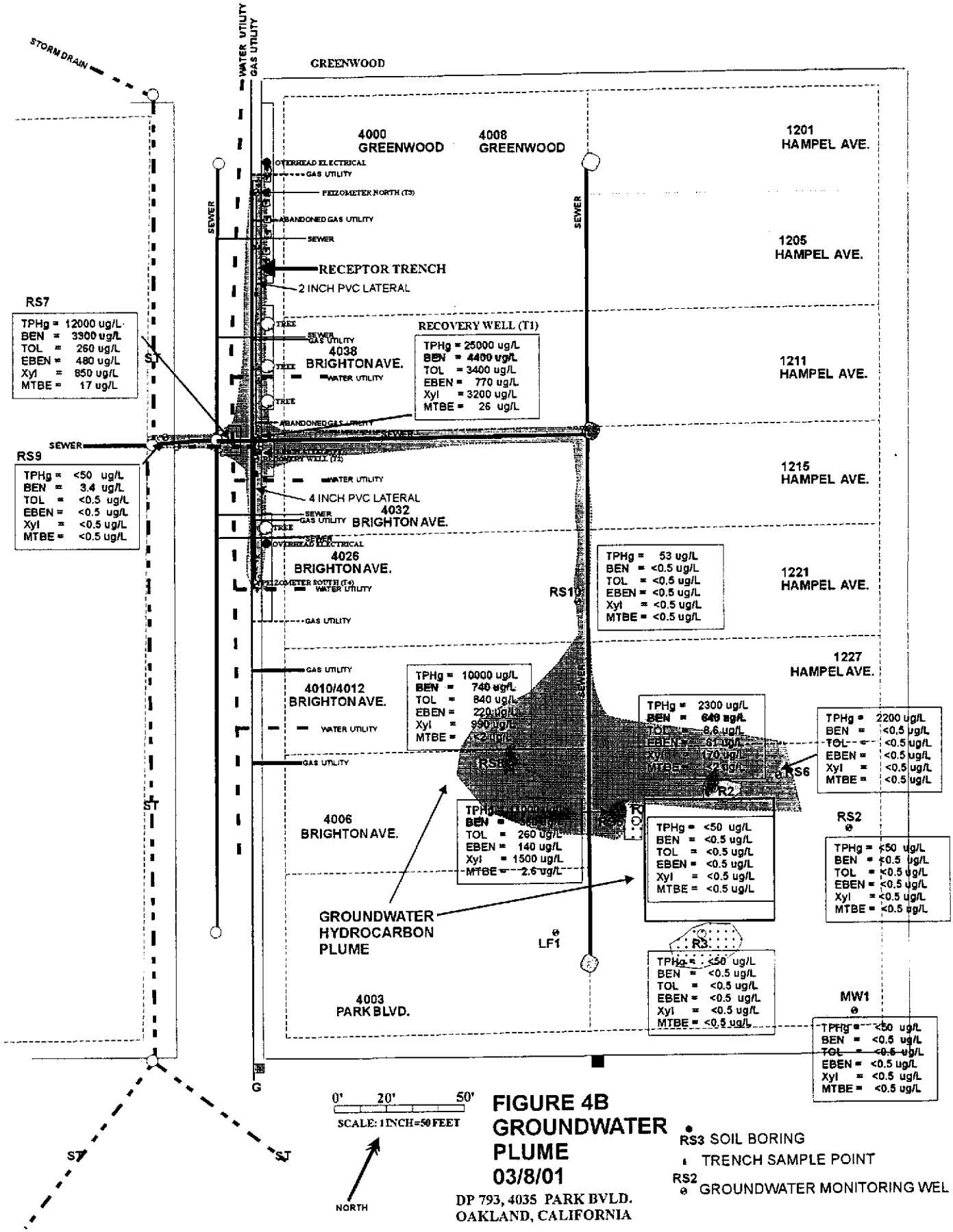


FIGURE 4B
GROUNDWATER PLUME
03/8/01

DP 793, 4035 PARK BVLD.
OAKLAND, CALIFORNIA

RS3 SOIL BORING
TRENCH SAMPLE POINT
RS2 GROUNDWATER MONITORING WEL

APPENDIX A
METHODS AND PROCEDURES, QA/QC

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDIXES

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-01	TIME 950
WELL MW1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	12.3 DTB 18.32	
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
954	1 Bailer	65.9	7.89	.23
956	2 gal	67.4	7.34	.22
958	1	67.6	7.33	.22
		6		

FINAL VOLUME PURGED	3 gal
TIME SAMPLED	959
SAMPLE ID.	MW1
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor
O_2 = 4.9	

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1005
WELL R52	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 6.3 DTB 18.3		
FLUID ELEVATION		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1006	1 Bailer	64.2	7.20	.141
1010	20 gal	65.2	7.26	.61
1012	1	65.7	7.21	.63
1014	1	65.6	7.21	.63

FINAL VOLUME PURGED	22 gal
TIME SAMPLED	1014
SAMPLE ID.	R52
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No odor

2 bailers

WESTERN GEO-ENGINEERS
1386 EAST BEAMER
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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-01	TIME 0900
WELL RS 5	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	27.72 DTB	
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
0905	1 Bailer	59.7	7.46	5.36
	gal			

FINAL VOLUME PURGED	gal
TIME SAMPLED	0905
SAMPLE ID.	RS5
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear Strong Odor
	DO_2 after removing pump 3.9 mg/L
	DO_2 @ 1300 3.1

1158270.7

3 of 3

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1018
WELL RS 6	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	10.10 DTB	34.02
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1020	1 Bailer	63.2	7.38	.45
1027	35 gal	65.9	7.40	.55
1029	1	67.1	7.29	.53
1031	1	67.4	7.27	.51
1033	1	67.5	7.27	.51

FINAL VOLUME PURGED	38 gal
TIME SAMPLED	1033
SAMPLE ID.	RS 6
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer CLEAR No Odor

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

SITE OP 793	DATE 3-8-1	TIME 1130
WELL RS7	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	3.94 DTB 7.00	
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1131	1 Bailer	60.9	6.91	.41
1133	6 gal	60.7	7.05	.33
1135	1	60.7	6.91	.32
1137	1	60.8	6.90	.32

FINAL VOLUME PURGED	8 gal
TIME SAMPLED	1137
SAMPLE ID.	RS7
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Black Bact Strong Odor

WESTERN GEO-ENGINEERS
1580 EAST HERMER
WOODLAND, CALIFORNIA 95695
(916) 668-5300, FAX (916) 662-0273

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1200
WELL RS8	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	9.40 DTB	14.4
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1201	1 Bailer	63.4	7.04	.25
1204	3 gal	63.3	6.96	.27
1209	1	63.3	6.97	.28

FINAL VOLUME PURGED	4 gal
TIME SAMPLED	1210
SAMPLE ID.	RS8
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy Slight Odor
$DO_2 = 2.2$	

DO_2 X339 2.2V

2/01

WESTERN GEO-ENGINEERS
1388 EAST BEAMER
WOODLAND, CALIFORNIA 95695
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WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1140
WELL RS9	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	4.93 DTB 12.3	
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1141	1 Bailer	62.8	7.05	.40
1143	6 gal	61.6	7.30	.18
1145	1	62.5	7.04	.17
1147	1	62.6	6.90	.17
1149	1	62.7	6.89	.17

FINAL VOLUME PURGED	9 gal
TIME SAMPLED	1150
SAMPLE ID.	RS9
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Cloudy Slight Odor
$DO_2 = 8.1$	

2 Ab.

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

SITE OP 793	DATE 3-8-1	TIME 1214
WELL RS10	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 2.82	DTB 9.6	
FLUID ELEVATION		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1214	1 Bailer	61.8	6.60	.17
1220	3 gal	61.4	6.26	.16
1221	1	61.5	6.19	.16
1223	1	61.5	6.16	.16

FINAL VOLUME PURGED	gal
TIME SAMPLED 1224	
SAMPLE ID. RS 10	
SAMPLE CONTAINERS 2/40cc VOAs	
ANALYSIS TO BE RUN TPHg BTEX/MTBE	
LABORATORY NSE	
NOTES: 1ST Bailer Cloudy	Slight Odor
DO_2 = 3.5	

2 to 1

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1051
WELL R1	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	13.72 DTB	16.92
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1053	1 Bailer	63.1	7.72	.12
1156	12 gal	63.3	7.42	.10
1158	1	63.4	7.40	.10

FINAL VOLUME PURGED	13 gal
TIME SAMPLED	1200
SAMPLE ID.	R1
SAMPLE CONTAINERS	2/40cc VOAs
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1037
WELL R2	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER	11.15 DTB 16.8	
FLUID ELEVATION		
BAILER TYPE	Disposable Bailer	
PUMP	David Pittman	

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1038	1 Bailer	64.6	7.35	.43
1041	16 gal	64.0	7.23	.41
1044	1	64.3	7.20	.41
1047	1	64.4	7.21	.41

FINAL VOLUME PURGED	18 gal
TIME SAMPLED	1048
SAMPLE ID.	R2
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Black Bact Same VOA

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

WELL SAMPLING DATA SHEET

SITE OP 793	DATE 3-8-1	TIME 1108
WELL R3	SAMPLED BY. BROADWAY	
WELL ELEVATION		
PRODUCT THICKNESS		
DEPTH TO WATER 6.54	DTB 11.74	
FLUID ELEVATION		
BAILER TYPE Disposable Bailer		
PUMP David Pittman		

WELL PURGING RECORD

TIME	VOLUME REMOVED	TEMP. F°	pH	COND. X1000
1110	1 Bailer	64.2	6.20	.56
1114	13 gal	65.2	6.63	.56
1116	1	65.5	6.72	.56
1118	1	65.4	6.80	.56
1120	1	65.4	6.82	.56

FINAL VOLUME PURGED	16 gal
TIME SAMPLED	1120
SAMPLE ID.	R3
SAMPLE CONTAINERS	2/40cc VOA's
ANALYSIS TO BE RUN	TPHg BTEX/MTBE
LABORATORY	NSE
NOTES:	1ST Bailer Clear No Odor

Nachtmann Analytical Laboratory, Inc.

720 Olive Drive • Davis, CA 95616 • (530) 758-5850 • Fax (530) 758-5870
Mailing Address: P.O. Box 1025 • Davis, CA 95617

CHAIN OF CUSTODY REPORT

CLIENT: Wester Geo Engineers

ADDRESS: 1386 E. Beamer St
Woodland, CA 95776

PHONE: 530-666-5300

PROJECT NAME/SITE: DP793 98th Park Blvd, Oakland

SAMPLER: Broadway

DATE: 3/8/01

REPORT TO: George Conver

BILLING TO: WEGE

TURNAROUND TIME: 1

8 HR.				
24 HR.		48 HR.		72 HR.
5 DAY		10 DAY		15 DAY

PO#/BILLING REFERENCE:

SAMPLE ID#/ STATION	SAMPLE DESCRIPTION	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	ANALYSIS REQUESTED: EPA 624	REMARKS	SAMPLE NUMBER
Sewer Discharge	WATER	2	VOA	1:30 3/8/01	✓		

RELINQUISHED BY: [signature] DATE: 3-12-01 TIME: 1310 RECEIVED BY: [signature] 3/12/01

RELINQUISHED BY: DATE: TIME: RECEIVED BY:

RELINQUISHED BY: DATE: TIME: RECEIVED IN LAB BY:

TRAVEL TIME:

ON SITE TIME:

OTHER:

WERE SAMPLES:	YES	NO
PRESERVED?		
IN GOOD CONDITION?		

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: 1385 E. Beamer St Woodland CA 95776	FAX No.: 530-662-0273
Project Number:	P.O. No.:
Email Address: wege@mother.com	☒ .pdf ☐ .xls ☐ .doc ☐ other
Project Name/Location: DP 793 Park Blvd Oakland	Sampler Signature: [signature]

Sample Designation	Sampling Date	Sampling Time	Container (Type/Amount): 40 ml VOA	Container: SLEEVE	Method Preserved: HCl	Method Preserved: HNO_3	Method Preserved: ICE	Method Preserved: 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/(1 wk)	For Lab Use Only
MW1	3/12/01	9:59	2		✓		✓							✓									✓	
RS2		10:14	2		✓		✓							✓									✓	
RS5		9:05	2		✓		✓							✓									✓	
RS6		10:33	2		✓		✓							✓									✓	
RS7		11:37	2		✓		✓							✓									✓	
RS8		12:10	2		✓		✓							✓									✓	
RS9		11:50	2		✓		✓							✓									✓	
RS10		12:24	2		✓		✓							✓									✓	
R1		12:00	2		✓		✓							✓									✓	
R2		10:48	2		✓		✓							✓									✓	

TAT key: 12 hr = Results by 9 a.m. of the next bus. day; 24 hr = Results by 5 p.m. of the next bus. day; 48 hr = Results by 5 p.m. of the 2nd bus. day; 72 hr = Results by 5 p.m. of the 3rd bus. day; 1 wk = Results by 5 p.m. of the 5th bus. day

Relinquished by:	Date	Time	Received by:	Remarks:
[signature]	3/12/01	1315		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	031201	1315	[signature] / Kiff Analytical	

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

COC.fh8 (5/00)

KIFF ANALYTICAL LLC

720 Olive Drive, Suite D
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.: 530-668-5300
Company/Address: Western Geo-Engineers	FAX No.:
Project Number:	P.O. No.:
Email Address: ☐.pdf ☐.xls ☐.doc ☐other	
Project Name/Location: DP793	Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container (Type/Amount) 40 ml VOA	SLEEVE				Method Preserved HCl	HNO_3	ICE	NONE		Matrix WATER/SOIL		Analysis Request BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH Gas/BTEX (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) TOTAL (X) W.E.T. (X)				TAT 12 hr/24 hr/48 hr/72 hr/1 wk	For Lab Use Only 12 hr = Results by 9 a.m. of the next bus. day; 24 hr = Results by 5 p.m. of the next bus. day; 48 hr = Results by 5 p.m. of the 2nd bus. day; 72 hr = Results by 5 p.m. of the 3rd bus. day; 1 wk = Results by 5 p.m. of the 5th bus. day
R3	3/8/01	11:20	2					✓		✓									✓												1	
TB	"	"	2					✓		✓									✓												1	

Relinquished by:	Date 3/12/01	Time 1715	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 03201	Time 1315	Received by Laboratory:	Bill to:

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

COC.fh8 (5/00)

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 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 1-11-2001 REASON FOR SITE VISIT weekly pump T1 + 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 Can pushed over T1 & T2 so could not access

ELECTRIC METER _____ WATER METER 1134714.8

SAMPLED _____ SITE MONITORED BY Cruzen

	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 _____

CONDITION OF COMPOUND COMMENTS _____

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

FORMER DESERT PETROLEUM SITE DP 793

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

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

DATE 1-18-01 REASON FOR SITE VISIT weekly [illegible]

	TRENCH WELL T1					TRENCH WELL T2					TRENCH WELL T3					TRENCH WELL T4				
TIME	PID	DTW	pH	TEMP	COND	PID	DTW	pH	TEMP	COND	PID	DTW	pH	TEMP	COND	PID	DTW	pH	TEMP	COND
2:20							2.83													
2:40							2.52													
2:55							2.76													
3:18							2.66													
3:45							2.71										4.58			
4:07							2.90													
4:18							3.32													

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 Start T2 well @ 2:20pm [illegible] @ 2:50 [illegible] [illegible]
Shutdown = 4 pm

ELECTRIC METER

WATER METER 1134714.8 start
1135243.8 end 4:20

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

SAMPLE No

SITE MONITORED BY Carrillo

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 1.2 PSI #2 0.0 PSI

FILTER INSPECTION AND COMMENTS

[illegible] #1 029403
#2 033549

WATER PHASE CARBON UNITS INSPECTION COMMENTS good

CONDITION OF COMPOUND COMMENTS good [illegible]

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 1-25-01 REASON FOR SITE VISIT Pump Trench

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP	COND
13.00					
16.00					

TRENCH WELL T2					
PID	DTW	pH	TEMP	COND	
ERROR	2.46				
	3.24				

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 2 inches water in containment

ELECTRIC METER —

WATER METER 1136144.0

SAMPLE? NO

SITE MONITORED BY Broadway

WASTEWATER

	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ___ GALLONS/____ MINUTES GALLONS PURGED_____
T2 FLOW RATE 6 GALLONS/ 1 MINUTES GALLONS PURGED_____

PRESSURE WATER CARBONS #1_____ PSI #2 14 PSI

FILTER INSPECTION AND COMMENTS 0

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 2-8-01

REASON FOR SITE VISIT weekly pump + inspect

TIME	TRENCH WELL T1 PID	DTW	pH	TEMP	COND
1400		2.30			

TRENCH WELL T2 PID	DTW	pH	TEMP	COND
	2.42			

TRENCH WELL T3 PID	DTW	pH	TEMP	COND
	9.62			

TRENCH WELL T4 PID	DTW	pH	TEMP	COND
	4.48			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
MW1	13.47			
RS2	10.52			
RS5	17.05			
RS6	14.81			
RS7	4.02			
RS8	6.18			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	7.00			
RS10	2.30			
R1	13.62			
R2	14.04			
R3	10.3			

COMMENTS Tried to put pump in RS5 but hose not heavy enough - 12or available

ELECTRIC METER ____

WATER METER 1136659.0

SAMPLE sewer discharge

SITE MONITORED BY Broadway

	WASTEWATER INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE ____ GALLONS/____ MINUTES
T2 FLOW RATE 3 GALLONS/ 1 MINUTES

GALLONS PURGED ____
GALLONS PURGED ____

PRESSURE WATER CARBONS #1 1.1 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 OP 793

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

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

DATE 2-15-01 REASON FOR SITE VISIT Pump Trench

TRENCH WELL T1					
TIME	PID	DTW	pH	TEMP	COND
0830					
1230					

TRENCH WELL T2				
PID	DTW	pH	TEMP	COND
	2.38			
	3.02			

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	12.25			
RS2	9.19			
RS5	15.89			
RS6	23.55			
RS7	4.05			
RS8	5.42			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	5.49			
RS10	2.3			
R1	12.78			
R2	13.09			
R3	7.78			

COMMENTS hard set 4" pump in RS5 @ 35' using PVC and camlock joints added 25' of romex to pump wire

ELECTRIC METER 12685 WATER METER 1137441.4 (Before RS#5)

SAMPLED — 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 .8 PSI #2____ PSI
T2 FLOW RATE 3.5 GALLONS/ 1 MINUTES GALLONS PURGED_____

FILTER INSPECTION AND COMMENTS —

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS Clean - City chopped down vegitation

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

Set pump To 1.5gpm Thru carbons

START DTW 15.89
1505 21.45
1520 15.60

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 2-22-01 REASON FOR SITE VISIT Pump & Inspect

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
10 00	0	3			
14 00		3.74			

TRENCH WELL T2

PID	DTW	pH	TEMP	COND
	2.95			

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	—			
RS2	9.74			
RS5	19.29	11:00	15.87	15:00
RS6	10.90			
RS7	3.62			
RS8	4.16			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	—			
RS10	8.5			
R1	10.37			
R2	11.62			
R3	7.68			

COMMENTS pump removale from RS5 very difficult - Heavy, slippery, and awckward

ELECTRIC METER 12793

WATER METER 1140664.3 (10:00)
1141128.6 (15:00)

SAMPLES —

SITE MONITORED BY Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 8 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 3-1-1 REASON FOR SITE VISIT pump & inspect

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
1300		2.18			
1700		2.95			

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				
RS2	6.55			
RS5	2.5 90			
RS6	9.95			
RS7	3.51			
RS8	9.55			

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	4.81			
RS10				
R1	14.57			
R2	11.87			
R3	6.72			

COMMENTS some slime on pipe in well RS5 - got sample

ELECTRIC METER 12913

1150736.5
WATER METER 1150033.2

SAMPLES SLIM ON Pump

SITE MONITORED BY BROADWAY

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE 4 GALLONS/ 1 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 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 3-8-1 REASON FOR SITE VISIT Pump T1 & 4/4/4

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
		2.18			
		2.92			

3.10a

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	12.3		4.90a	
RS2	2.13			
RS5	14.52			
RS6	10.10			
RS7	9.24			
RS8	9.90		2.20a	

1.9

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	4.93		8.10a	
RS10	2.82		3.50a	
R1	13.22			
R2	4.13			
R3	2.59			

COMMENTS Checked dissolved Oxygens - Draining Poly tank through carbon To sewer

ELECTRIC METER 13016 WATER METER 1158901.1 1158270.7

SAMPLED 4/4/4 + sewer SITE MONITORED BY Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

T1 FLOW RATE 4 GALLONS/ 1 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

T1 = 630.4 4/4/4

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 SETTLERS TANK AND 2 IN SERIES CARBON WATER SCRUB UNITS
PEAK HOURLY DISCHARGE 2 GPM. DAILY 2880 GALLONS

DATE 3-14-01 REASON FOR SITE VISIT Pump Trench & Maint

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
1500		2.49			
1800		3.02			

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	11.47			
RS2	19.17			
RS5	19.32	1860		
RS6	10.45			
RS7	[illegible]			
RS8	[illegible]			

23.12

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9	—			
RS10	—			
R1	14.84			
R2	11.42			
R3				

COMMENTS Flow was only .5 gals min

ELECTRIC METER 13193

WATER METER 1161991.4 1162821.2

SAMPLES None

SITE MONITORED BY Broadway

WASTEWATER	INFLUENT	EFFLUENT
TIME		
pH		
Conductivity		
Temperature		
PID		

WATER TREATMENT

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

PRESSURE WATER CARBONS #1 46 PSI #2 ___ PSI

FILTER INSPECTION AND COMMENTS —

WATER PHASE CARBON UNITS INSPECTION COMMENTS OK

CONDITION OF COMPOUND COMMENTS Cleaned

T_1 = 329.8 gls

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 DF 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 3-21-01 REASON FOR SITE VISIT Weekly pump & Inspect

TRENCH WELL T1

TIME	PID	DTW	pH	TEMP	COND
		2.51			

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	11.07			
RS2	7.58			
RS5	15.13			
RS6	10.6			
RS7				
RS8				

DEPTH TO WATER

WELL	DTW	TIME	DTW	TIME
RS9				
RS10				
R1	13.9			
R2	11.46			
R3	7.49			

COMMENTS Pump is not creating enough push to run - Taking back to shop

ELECTRIC METER

WATER METER 623214

SAMPLES

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

T1: 0.0

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 C.

LABORATORY REPORTS

KIFF ANALYTICAL LLC

Report Number : 19539
Date : 3/28/2001

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

Subject : 12 Water Samples
Project Name : DP793 Park Blvd Oakland
Project Number :

Dear Mr. Converse,

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

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

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 19539
Date : 3/28/2001

Project Name : **DP793 Park Blvd Oakland**
Project Number :

Sample : **MW1** Matrix : Water Lab Number : 19539-01
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/17/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/17/2001
4-Bromofluorobenzene (Surr)	98.5		% Recovery	EPA 8260B	3/17/2001

Sample : **RS2** Matrix : Water Lab Number : 19539-02
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/16/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/16/2001
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	3/16/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	3/16/2001

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 19539
Date : 3/28/2001

Project Name : **DP793 Park Blvd Oakland**
Project Number :

Sample : **R1** Matrix : Water Lab Number : 19539-09
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/17/2001
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	3/17/2001
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	3/17/2001

Sample : **R2** Matrix : Water Lab Number : 19539-10
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**640**	2.0	ug/L	EPA 8260B	3/17/2001
Toluene	**8.6**	2.0	ug/L	EPA 8260B	3/17/2001
Ethylbenzene	**61**	2.0	ug/L	EPA 8260B	3/17/2001
Total Xylenes	**170**	2.0	ug/L	EPA 8260B	3/17/2001
Methyl-t-butyl ether (MTBE)	**< 2.0**	2.0	ug/L	EPA 8260B	3/17/2001
TPH as Gasoline	**2300**	200	ug/L	EPA 8260B	3/17/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/17/2001
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	3/17/2001

Approved By: Joel Kiff

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

KIFF ANALYTICAL LLC

Report Number : 19539
Date : 3/28/2001

Project Name : **DP793 Park Blvd Oakland**
Project Number :

Sample : **R3** Matrix : Water Lab Number : 19539-11
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/21/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/21/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/21/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/21/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/21/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/21/2001
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	3/21/2001
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	3/21/2001

Sample : **T1** Matrix : Water Lab Number : 19539-12
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**4400**	10	ug/L	EPA 8260B	3/22/2001
Toluene	**3400**	10	ug/L	EPA 8260B	3/22/2001
Ethylbenzene	**770**	10	ug/L	EPA 8260B	3/22/2001
Total Xylenes	**3200**	10	ug/L	EPA 8260B	3/22/2001
Methyl-t-butyl ether (MTBE)	**26**	10	ug/L	EPA 8260B	3/22/2001
TPH as Gasoline	**25000**	1000	ug/L	EPA 8260B	3/22/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/22/2001
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	3/22/2001

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 19539
Date : 3/28/2001

Project Name : **DP793 Park Blvd Oakland**
Project Number :

Sample : **RS5** Matrix : Water Lab Number : 19539-03
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**360**	2.0	ug/L	EPA 8260B	3/20/2001
Toluene	**260**	2.0	ug/L	EPA 8260B	3/20/2001
Ethylbenzene	**140**	2.0	ug/L	EPA 8260B	3/20/2001
Total Xylenes	**1500**	2.0	ug/L	EPA 8260B	3/20/2001
Methyl-t-butyl ether (MTBE)	**2.6**	2.0	ug/L	EPA 8260B	3/22/2001
TPH as Gasoline	**11000**	200	ug/L	EPA 8260B	3/20/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/20/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	3/20/2001

Sample : **RS6** Matrix : Water Lab Number : 19539-04
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
TPH as Gasoline	**2200**	50	ug/L	EPA 8260B	3/17/2001
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	3/17/2001
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	3/17/2001

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KIFF ANALYTICAL LLC

Report Number : 19539
Date : 3/28/2001

Project Name : **DP793 Park Blvd Oakland**
Project Number :

Sample : **RS7** Matrix : Water Lab Number : 19539-05
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**3300**	10	ug/L	EPA 8260B	3/19/2001
Toluene	**260**	10	ug/L	EPA 8260B	3/19/2001
Ethylbenzene	**480**	10	ug/L	EPA 8260B	3/19/2001
Total Xylenes	**850**	10	ug/L	EPA 8260B	3/19/2001
Methyl-t-butyl ether (MTBE)	**17**	10	ug/L	EPA 8260B	3/19/2001
TPH as Gasoline	**12000**	1000	ug/L	EPA 8260B	3/19/2001
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	3/19/2001
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	3/19/2001

Sample : **RS8** Matrix : Water Lab Number : 19539-06
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**740**	2.0	ug/L	EPA 8260B	3/22/2001
Toluene	**840**	2.0	ug/L	EPA 8260B	3/22/2001
Ethylbenzene	**220**	2.0	ug/L	EPA 8260B	3/22/2001
Total Xylenes	**990**	2.0	ug/L	EPA 8260B	3/22/2001
Methyl-t-butyl ether (MTBE)	**< 2.0**	2.0	ug/L	EPA 8260B	3/22/2001
TPH as Gasoline	**10000**	200	ug/L	EPA 8260B	3/22/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	3/22/2001
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	3/22/2001

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Report Number : 19539
Date : 3/28/2001

Project Name : **DP793 Park Blvd Oakland**
Project Number :

Sample : **RS9** Matrix : Water Lab Number : 19539-07
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**3.4**	2.0	ug/L	EPA 8260B	3/17/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/27/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/27/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/27/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/27/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	3/27/2001
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	3/27/2001
4-Bromofluorobenzene (Surr)	95.9		% Recovery	EPA 8260B	3/27/2001

Sample : **RS10** Matrix : Water Lab Number : 19539-08
Sample Date :3/8/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	3/17/2001
TPH as Gasoline	**53**	50	ug/L	EPA 8260B	3/17/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	3/17/2001
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	3/17/2001

Joel Kiff

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

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Lab: 530.297.4800
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Lab No. 19539 Page 1 of 2

Chain-of-Custody Record and Analysis Request

Project Manager: George Converse	Phone No.: 530-668-5300
Company/Address: 1396 E. Beamer St. Woodland CA 95776	FAX No.: 530-662-0273
Project Number: / P.O. No.:	Email Address: wege@mother.com ☑.pdf ☐.xls ☐.doc ☐other
Project Name/Location: DP 793 Park Blvd Oakland	Sampler Signature: Steph Broadway

Sample Designation	Sampling Date	Sampling Time	Container (Type/Amount) 40 ml VOA	SLEEVE	Method Preserved 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/1 wk	For Lab Use Only
MW1	3/8/01	9:59	2		✓		✓							✓									✓	-01
R52		10:14	2		✓		✓							✓									✓	-02
R55		9:05	2		✓		✓							✓									✓	-03
R56		10:33	2		✓		✓							✓									✓	-04
R57		11:37	2		✓		✓							✓									✓	-05
R58		12:10	2		✓		✓							✓									✓	-06
R59		11:50	2		✓		✓							✓									✓	-07
R510		12:24	2		✓		✓							✓									✓	-08
R1		12:00	2		✓		✓							✓									✓	-09
R2		10:48	2		✓		✓							✓									✓	-10

Relinquished by:	Date	Time	Received by:	Remarks:
Steph Broadway	3/12/01	1315		
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date	Time	Received by Laboratory:	Bill to:
	031201	1315	Michelle Woodward / Kiff Analytical	

12 hr = Results by 9 a.m. of the next bus. day
24 hr = Results by 5 p.m. of the next bus. day
48 hr = Results by 5 p.m. of the 2nd bus. day
72 hr = Results by 5 p.m. of the 3rd bus. day
1 wk = Results by 5 p.m. of the 5th bus. day

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

COC.fh8 (5/00)

KIFF ANALYTICAL LLC

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Davis, CA 95616
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Fax: 530.297.4803

Lab No. 19539 Page 2 of 2

Chain-of-Custody Record and Analysis Request

Project Manager: George Converse	Phone No.: 530-668-5300
Company/Address: Westerngeo-Engineers	FAX No.:
Project Number: / P.O. No.:	Email Address: ☐.pdf ☐.xls ☐.doc ☐other
Project Name/Location: OP793	Sampler Signature: Kyle Broadway

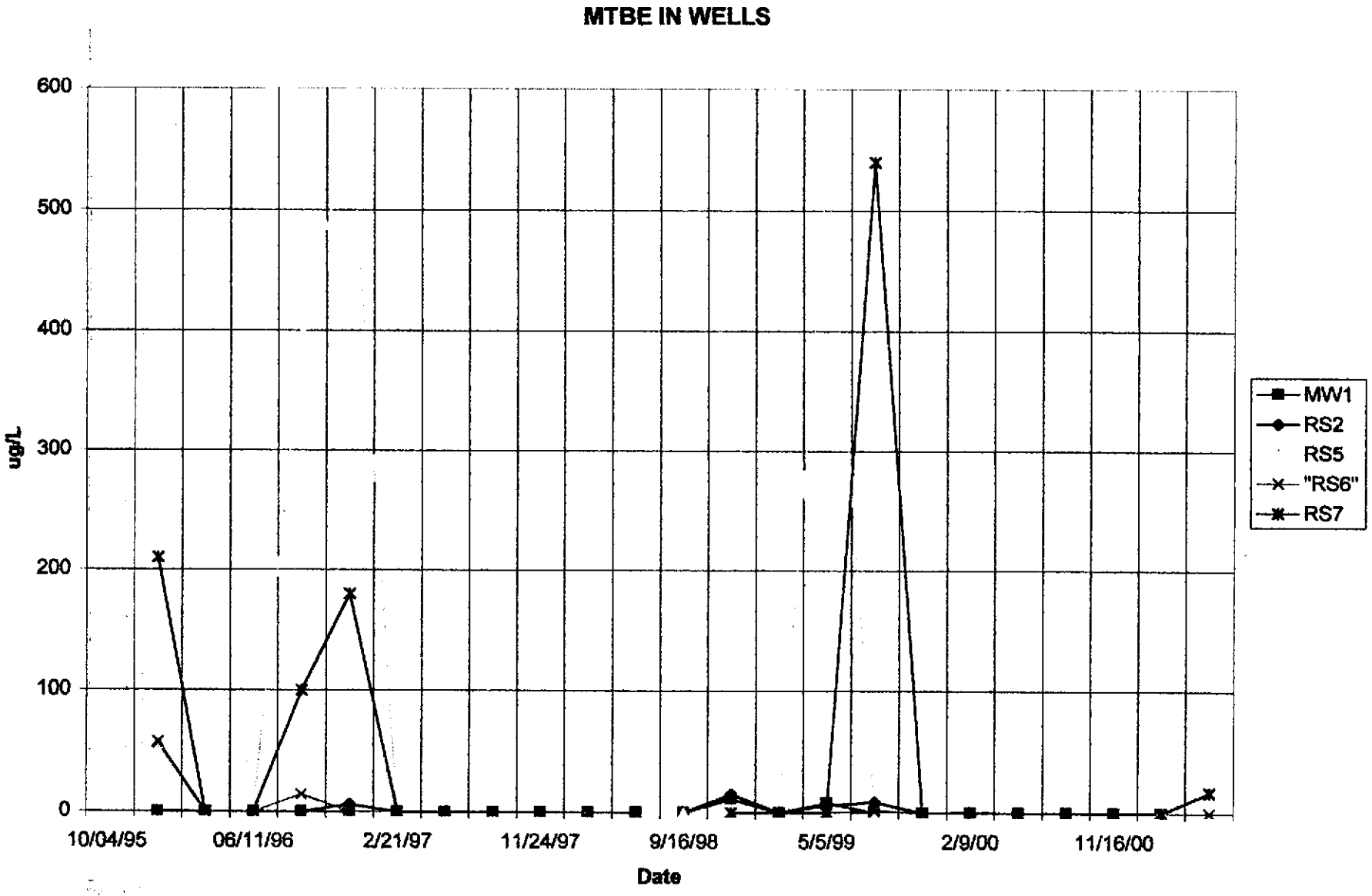
Sample Designation	Sampling Date	Sampling Time	Container (Type/Amount) 40 ml VOA	SLEEVE	Method Preserved HCl	HNO_3	ICE	NONE	Matrix WATER/SOIL	BTEX (8021B)	BTEX/TPH Gas/MTBE (8021B/M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas/BTEX/MTBE (8260B)	5 Oxygenates/TPH Gas/BTEX (8260B)	7 Oxygenates/TPH 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/1 wk	For Lab Use Only
R3	3/8/01	14:20	2		✓		✓							✓									✓	-11
T31	3/8/01	13:30	2		✓		✓							✓									✓	-12

TAT: 12 hr = Results by 9 a.m. of the next bus. day; 24 hr = Results by 5 p.m. of the next bus. day; 48 hr = Results by 5 p.m. of the 2nd bus. day; 72 hr = Results by 5 p.m. of the 3rd bus. day; 1 wk = Results by 5 p.m. of the 5th bus. day

	Date	Time		
Relinquished by: Kyle Broadway	3/12/01	1315	Received by:	Remarks:
Relinquished by:	Date	Time	Received by:	
Relinquished by:	Date 03/12/01	Time 1315	Received by Laboratory: Michelle Woodward / Kiff Analytical	Bill to:

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

COC.fh8 (5/00)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MW1
RS2
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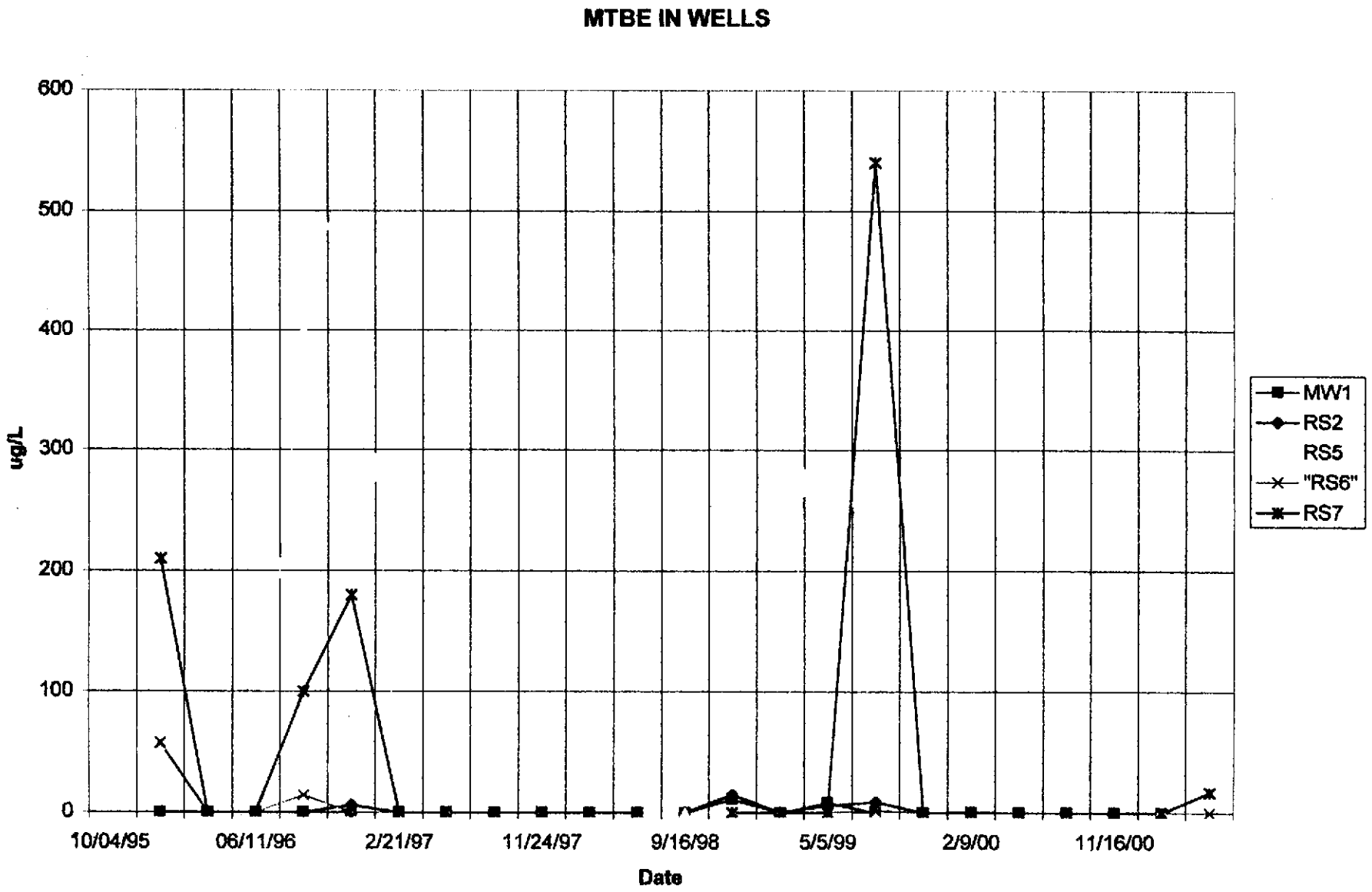
RS7


MTBE IN WELLS
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RS5
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