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March 2, 1995
Project No. RC0027.011

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Mr. Dan Lee
United Parcel Service, Inc.
8400 Pardee Drive
Oakland, California 94621

SUBJECT: Results of Groundwater Monitoring, February 1, 1995, United Parcel Service, Inc. Facility, 8400 Pardee Drive, Oakland, California.

Dear Mr. Lee:

This letter report presents the results of the groundwater monitoring and sampling performed on February 1, 1995, at the United Parcel Service, Inc. (UPS) facility referenced above (Figure 1). The scope of work for this project was contained in a previous Geraghty & Miller, Inc. (Geraghty & Miller) document to UPS dated November 9, 1994, and modified at the request of UPS in a Geraghty & Miller letter dated November 21, 1994.

GROUNDWATER SAMPLING PROCEDURES

Groundwater samples were collected from Monitoring Wells MW-1, MW-2, MW-3, and MW-7 on February 1, 1995 (Figure 2). Prior to sampling, depth to water was measured, and each well was checked for the presence of liquid-phase hydrocarbons (LPH). LPH were not observed in any of the monitor wells.

Prior to sampling, each well was purged using a 1-inch diaphragm pump with a new length of polyethylene tubing for each well. Approximately four casing volumes of groundwater were purged from each well or the well was purged dry due to slow recovery. A summary of the field sampling parameters is presented in Table 1. The purged water was placed in 55-gallon drums and stored onsite for proper handling and disposal by UPS.

Following purging, groundwater samples were collected from the wells using a new disposable polyethylene bailer for each well. The groundwater samples were placed into the appropriate U.S. Environmental Protection Agency (USEPA) approved containers, placed on ice, and transported to Sequoia Laboratories, Inc. of Redwood City, California, along with



appropriate chain-of-custody documentation. All groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) by USEPA Method 8015, modified, total petroleum hydrocarbons as diesel (TPH-D) by USEPA Method 8015, modified, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8020. In addition, the sample collected from Monitor Well MW-7 was also analyzed for total oil and grease (USEPA Method 5520F). Copies of the chain-of-custody forms and laboratory reports are attached. A trip blank was also submitted to the laboratory for analysis for quality control purposes. The trip blank was analyzed for TPH-G (USEPA Method 8015, modified) and BTEX (USEPA Method 8020).

RESULTS

Depth-to-water measurements and groundwater elevations for the wells are presented in Table 2. Monitor Well MW-6 was obstructed by a vehicle and no depth-to-water measurement was taken. Based on the groundwater elevations, the direction of shallow groundwater flow in the vicinity of the southern fueling facilities is generally toward the south-southwest (Figure 2).

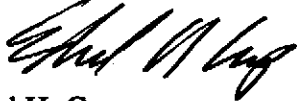
The results of groundwater analyses for the February 1, 1995 sampling event are summarized in Table 3. In the vicinity of the underground storage tanks beneath the southeastern portion of the site, TPH-D was detected at concentrations ranging from 2,100 micrograms per liter ($\mu\text{g/L}$) (Well MW-2) to 10,000 $\mu\text{g/L}$ (Well MW-1). TPH-G was detected at concentrations of 510 $\mu\text{g/L}$ (MW-1) and 810 $\mu\text{g/L}$ (MW-3). BTEX concentrations are summarized in Table 3.

In the vicinity of the underground storage tanks beneath the northeastern portion of the site, TPH-D was detected in samples collected from Monitor Well MW-7 (420 $\mu\text{g/L}$). TPH-G, BTEX and total oil and grease were not detected in the sample collected from Monitor Well MW-7. TPH-G and BTEX were not detected in the trip blank.

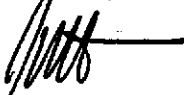


Geraghty & Miller appreciates the opportunity to be of service to UPS. If you have any questions regarding this letter report, please do not hesitate to call.

Sincerely,
GERAGHTY & MILLER, INC.



Edward H. Crump
Engineer/Project Manager



Jeffrey W. Hawkins, R.G.
Senior Geologist



Gary W. Keyes
Principal Engineer/Associate
Richmond, California Officer Manager

- Attachments:
- | | |
|--------------|--|
| Table 1 | Summary of Field Sampling Data |
| Table 2 | Depth-to-Water and Groundwater Elevations |
| Table 3 | Groundwater Analytical Results |
| Figure 1 | Site Location Map |
| Figure 2 | Groundwater Elevation Map (February 1995) |
| Attachment 1 | Copies of Certified Laboratory Analytical Results and Chain-of-Custody Documentation |

cc: Mr. Barney Chan
Alameda County Health Department, Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621



Table 1: Summary of Field Sampling Data
United Parcel Service, Inc.
8400 Pardee Drive, Oakland, California.

Well	Date	Calculated Purge Volume (a) (Gallons)	Actual Purge Volume (Gallons)	FIELD PARAMETERS			Depth to Water (b) (Feet)	Well Depth (b) (Feet)	Casing Diameter (inches)
				pH	SC (μS/cm)	Temperature (°F)			
MW-1	1-Feb-95	33.40	40.0	6.43	1,523	60.6	1.84	14.33	4
MW-2	1-Feb-95	28.00	13.0 (c)	5.50	OR	62.4	4.00	14.40	4
MW-3	1-Feb-95	33.12	35.0	6.33	OR	61.8	2.43	14.61	4
MW-4	1-Feb-95	31.88	NM	NM	NM	NM	2.58	14.65	4
MW-5	1-Feb-95	27.44	NM	NM	NM	NM	3.87	14.42	4
MW-6	1-Feb-95	73.40	NM	NM	NM	NM	NM	NM	6
MW-7	1-Feb-95	4.80	6.0 (c)	7.10	OR	62.8	6.35	16.56	2

- (a) Based on four casing volumes.
- (b) Measured from top of PVC casing.
- (c) Well went dry prior to purging four casing volumes.

NM Not Measured
 SC Specific Conductance
 OR Out of Range
 μS/cm microSiemens per centimeter



Table 2: Depth-to-Water and Groundwater Elevations
 United Parcel Service, Inc.
 8400 Pardee Drive, Oakland, California.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet MSL)	Top of Water Elevation (feet MSL)	Measured Depth of Well (a) (feet)
MW-1	28-Aug-90	3.80	7.43	3.63	14.05
	20-Sep-90	3.99		NM	
	19-Jun-91	3.47		3.96	NM
	23-Jul-91	3.70		3.73	NM
	26-Aug-91	3.92		3.51	NM
	18-Nov-91	4.21		3.22	NM
	3-Feb-92	3.99		3.44	NM
	29-Jun-92	3.38		4.05	NM
	23-Jun-93	2.72		4.71	14.20
	11-Oct-93	3.87		3.56	14.27
	4-Jan-94	3.34		4.09	14.10
	10-May-94	2.14		5.29	NM
	1-Feb-95	1.84		5.59	14.33
MW-2	28-Aug-90	4.98	7.15	2.17	15.35
	20-Sep-90	4.94		2.21	NM
	19-Jun-91	4.66		2.49	NM
	23-Jul-91	4.81		2.34	NM
	26-Aug-91	4.89		2.26	NM
	18-Nov-91	4.93		2.22	NM
	3-Feb-92	4.44		2.71	NM
	29-Jun-92	4.80		2.35	NM
	23-Jun-93	4.38		2.77	14.35
	11-Oct-93	5.20		1.95	14.35
	4-Jan-94	4.56		2.59	14.15
	10-May-94	4.22		2.93	NM
	1-Feb-95	4.00		3.15	14.40
MW-3	28-Aug-90	3.88	7.42	3.54	14.60
	20-Sep-90	3.99		3.43	NM
	19-Jun-91	3.49		3.93	NM
	23-Jul-91	3.71		3.71	NM
	26-Aug-91	3.94		3.48	NM
	18-Nov-91	4.23		3.19	NM
	3-Feb-92	4.01		3.41	NM
	29-Jun-92	3.40		4.02	NM
	23-Jun-93	2.75		4.67	14.50
	11-Oct-93	3.84		3.58	14.45
	4-Jan-94	3.40		4.02	14.33
	10-May-94	2.25		5.17	NM
	1-Feb-95	2.43		4.99	14.61

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Table 2: Depth-to-Water and Groundwater Elevations
 United Parcel Service, Inc.
 8400 Pardee Drive, Oakland, California.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet MSL)	Top of Water Elevation (feet MSL)	Measured Depth of Well (a) (feet)
MW-4	28-Aug-90	3.15	5.71	2.56	14.66
	20-Sep-90	3.19		NM	
	19-Jun-91	2.73		NM	
	23-Jul-91	3.07		NM	
	26-Aug-91	4.32		NM	
	18-Nov-91	4.03		NM	
	3-Feb-92	3.86		NM	
	29-Jun-92	2.94		NM	
	23-Jun-93	2.49		14.54	
	11-Oct-93	4.08		14.45	
	4-Jan-94	3.49		14.37	
	10-May-94	2.73		NM	
	1-Feb-95	2.58		14.65	
MW-5	28-Aug-90	7.46	4.93	-2.53	14.77
	20-Sep-90	3.99		NM	
	19-Jun-91	3.63		NM	
	23-Jul-91	4.37		NM	
	26-Aug-91	4.19		NM	
	18-Nov-91	4.25		NM	
	3-Feb-92	3.53		NM	
	29-Jun-92	3.48		NM	
	23-Jun-93	3.40		14.29	
	11-Oct-93	3.66		14.40	
	4-Jan-94	3.72		14.19	
	10-May-94	4.44		NM	
	1-Feb-95	3.87		14.42	
MW-6	28-Aug-90	7.76	6.27	-1.49	18.10
	20-Sep-90	7.18		NM	
	19-Jun-91	7.71		NM	
	23-Jul-91	7.90		NM	
	26-Aug-91	7.71		NM	
	18-Nov-91	6.99		NM	
	3-Feb-92	7.19		NM	
	29-Jun-92	7.92		NM	
	23-Jun-93	7.53		19.11	
	11-Oct-93	7.60		19.20	
	4-Jan-94	7.27		19.10	
	10-May-94	7.43		NM	
	1-Feb-95	NM		NM	



Table 2: Depth-to-Water and Groundwater Elevations
 United Parcel Service, Inc.
 8400 Pardee Drive, Oakland, California.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet MSL)	Top of Water Elevation (feet MSL)	Measured Depth of Well (a) (feet)
MW-7	4-Jan-94	7.75	(b)	(b)	16.16
	10-May-94	7.44			NM
	1-Feb-95	6.35			16.56
OW-1	23-Jun-93	4.14	(b)	(b)	18.60
	11-Oct-93	NM			NM
	4-Jan-94	NM			NM
	10-May-94	NM			NM
	1-Feb-95	NM			NM

(a) Measured from top of PVC casing.

(b) Well casing elevation unknown.

MSL Mean Sea Level

NM Not Measured



Table 3: Groundwater Analytical Results
 United Parcel Service, Inc.
 8400 Pardee Drive, Oakland, California.

Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (b) (µg/L)	Benzene (c) (µg/L)	Toluene (c) (µg/L)	Ethyl- benzene (c) (µg/L)	Total Xylenes (c) (µg/L)	Total Oil & Grease (mg/L)
MW-1	28-Aug-90	NA	21,000	3.0	1.4	4.0	2.4	NA
	19-Jun-91	NA	7,100	1.7	0.7	0.5	0.9	NA
	23-Jul-91	220	8,700	1.6	1.1	0.5	1.5	NA
	26-Aug-91	NA	2,800	180	120	31	160	NA
	18-Nov-91	NA	6,600	1.1	0.4	0.5	ND(<0.3)	NA
	3-Feb-92	NA	2,200	0.9	ND(<0.3)	0.8	0.7	NA
	29-Jun-92	NA	2,100	0.8	0.4	0.4	0.9	NA
	23-Jun-93	NA	3,200	0.66	ND(<0.5)	0.5	ND(<0.5)	NA
	11-Oct-93	NA	9,600	1.3	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	4-Jan-94	NA	12,000	2.1	0.65	1.3	2.1	NA
	10-May-94	NA	6,400	(e) 0.54	0.53	ND(<0.5)	1.1	NA
	1-Feb-95	510	10,000	(f) ND(<1.0)	ND(<1.0)	1.0	ND(<1.0)	NA
MW-2	28-Aug-90	NA	3,500	0.6	0.4	0.6	0.7	NA
	19-Jun-91	NA	ND(<50)	0.5	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jul-91	ND(<50)	660	0.7	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	26-Aug-91	NA	ND(<50)	0.7	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	18-Nov-91	NA	3,200	0.8	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	3-Feb-92	NA	400	0.7	ND(<0.3)	ND(<0.3)	0.5	NA
	29-Jun-92	NA	250	0.6	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jun-93	NA	11,000	0.55	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	11-Oct-93	NA	1,400	1.2	ND(<0.5)	ND(<0.5)	1.3	NA
	4-Jan-94	NA	3,700	0.72	ND(<0.5)	ND(<0.5)	1.1	NA
	10-May-94	NA	2,300	(e) 0.74	ND(<0.5)	ND(<0.5)	0.7	NA
	1-Feb-95	ND(<100)	2,100	(d) 2.1	ND(<1.0)	ND(<1.0)	ND(<1.0)	NA
MW-3	28-Aug-90	NA	18,000	0.5	0.8	4.3	2.3	NA
	19-Jun-91	NA	1,300	0.4	0.4	1.7	1.4	NA
	23-Jul-91	330	6,800	0.3	ND(<0.3)	1.5	0.5	NA
	26-Aug-91	NA	ND(<50)	13	13	5.8	26	NA
	18-Nov-91	NA	2,500	0.6	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	3-Feb-92	NA	1,100	0.4	ND(<0.3)	1.3	0.6	NA
	29-Jun-92	NA	3,200	ND(<0.3)	ND(<0.3)	1.3	0.3	NA
	23-Jun-93	NA	8,100	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	11-Oct-93	NA	7,100	1.0	ND(<0.5)	1.5	2.4	NA
	4-Jan-94	NA	7,400	ND(<0.5)	ND(<0.5)	1.6	ND(<0.5)	NA
	10-May-94	NA	5,700	(e) ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	1-Feb-95	810	10,000	(f) ND(<1.0)	ND(<1.0)	2.7	4.1	NA
MW-4	28-Aug-90	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	19-Jun-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jul-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	26-Aug-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	18-Nov-91	ND(<50)	60	0.3	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	3-Feb-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	29-Jun-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jun-93	ND(<50)	59	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	11-Oct-93	ND(<50)	90	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	4-Jan-94	ND(<50)	110	(d) ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	10-May-94	ND(<50)	100	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	1-Feb-95	NS	NS	NS	NS	NS	NS	NA



Table 3: Groundwater Analytical Results
 United Parcel Service, Inc.
 8400 Pardee Drive, Oakland, California.

Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (b) (µg/L)	Benzene (c) (µg/L)	Toluene (c) (µg/L)	Ethyl- benzene (c) (µg/L)	Total Xylenes (c) (µg/L)	Total Oil & Grease (mg/L)
MW-5	28-Aug-90	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	19-Jun-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jul-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	26-Aug-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	18-Nov-91	ND(<50)	100	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	3-Feb-92	53	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	0.5	NA
	29-Jun-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jun-93	ND(<50)	61	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	11-Oct-93	ND(<50)	96	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	4-Jan-94	ND(<50)	100 (d)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	10-May-94	ND(<50)	190	ND(<0.5)	0.74	1.2	1.7	NA
	1-Feb-95	NS	NS	NS	NS	NS	NS	NA
MW-6	7-Sep-90	ND(<50)	ND(<100)	ND(<0.3)	0.5	ND(<0.3)	1.0	NA
	19-Jun-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jul-91	ND(<50)	110	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	26-Aug-91	NA	NA	NA	NA	NA	NA	NA
	18-Nov-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	3-Feb-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	29-Jun-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	NA
	23-Jun-93	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	11-Oct-93	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	4-Jan-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	10-May-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	1-Feb-95	NS	NS	NS	NS	NS	NS	NA
MW-7	4-Jan-94	ND(<50)	250 (d)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	10-May-94	ND(<50)	250 (e)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	NA
	1-Feb-95	ND(<50)	420 (f)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<5.0)
OW-1	23-Jun-93	NA	3,400,000	ND(<0.5)	ND(<0.5)	ND(<0.5)	31.0	NS
	4-Jan-94	NS	NS	NS	NS	NS	NS	NS
	10-May-94	NS	NS	NS	NS	NS	NS	NS
Trip Blank	26-Aug-91	ND(<50)	NA	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	
	18-Nov-91	ND(<50)	NA	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	
	3-Feb-92	ND(<50)	NA	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	
	29-Jun-92	ND(<50)	NA	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	
	23-Jun-93	ND(<50)	NA	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	
	11-Oct-93	ND(<50)	NA	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	
	4-Jan-94	ND(<50)	NA	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	
	10-May-94	ND(<50)	NA	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	
	1-Feb-95	ND(<50)	NA	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	

(Remarks on following page.)



Table 3: Groundwater Analytical Results
 United Parcel Service, Inc.
 8400 Pardee Drive, Oakland, California.

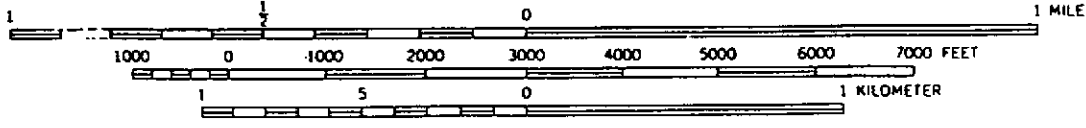
Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (b) (µg/L)	Benzene (c) (µg/L)	Toluene (c) (µg/L)	Ethyl- benzene (c) (µg/L)	Total Xylenes (c) (µg/L)	Total Oil & Grease (mg/L)
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- (a) Total Petroleum Hydrocarbons as Gasoline analyzed by USEPA Method 5030/8015 modified.
 (b) Total Petroleum Hydrocarbons as Diesel analyzed by USEPA Method 3510/8015 modified.
 (c) BTEX analyzed by USEPA Method 5030/8020.
 (d) Reported by the laboratory as a diesel and nondiesel mixture.
 (e) Reported by the laboratory as a diesel and unidentified hydrocarbons > C20.
 (f) Reported by the laboratory as a nondiesel mixture.

ND Not Detected
 NA Not Analyzed
 NS Not Sampled
 µg/L micrograms per liter
 mg/L Milligrams per liter

August 26, 1991 through June 29, 1992 analyses by Superior Precision Analytical Laboratories, Inc., Martinez, California.
 June 23, 1993 through May 10, 1994 analyses by Sequoia Analytical, Inc., Concord, California.
 February 1, 1995 analysis by Sequoia Analytical, Inc., Redwood City, California.



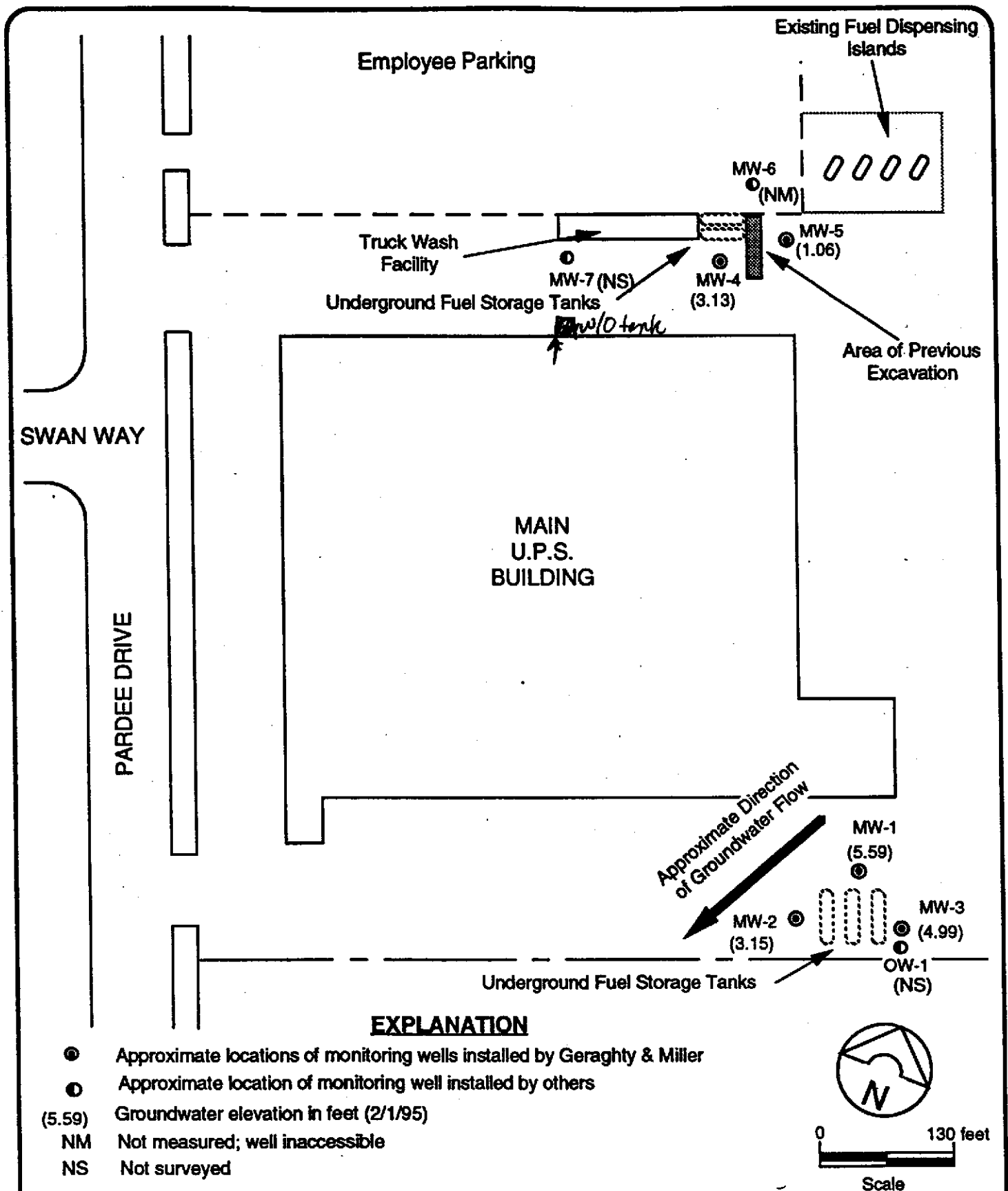


CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS



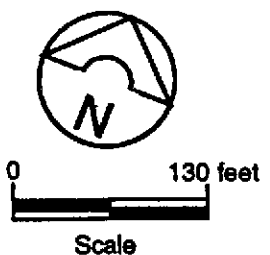
SITE LOCATION MAP
 United Parcel Service
 Package Distribution Facility
 Oakland, California

FIGURE
 1



EXPLANATION

- Approximate locations of monitoring wells installed by Geraghty & Miller
- Approximate location of monitoring well installed by others
- (5.59) Groundwater elevation in feet (2/1/95)
- NM Not measured; well inaccessible
- NS Not surveyed



GERAGHTY & MILLER, INC.
Environmental Services
 Project No. RC0027.000

GROUNDWATER ELEVATION MAP
FEBRUARY 1995
 UNITED PARCEL SERVICE, INC.
 8400 Pardee Drive
 Oakland, California

FIGURE
2

ENVIRONMENTAL
PROTECTION

1995 MAR 21 AM 8:05

ATTACHMENT 1

**COPIES OF CERTIFIED LABORATORY ANALYTICAL RESULTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



Geraghty & Miller 1050 Marina Way South Richmond, CA 94504 Attention: Edward Crump	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9502224-01	Sampled: 02/01/95 Received: 02/03/95 Extracted: 02/27/95 Analyzed: 02/28/95 Reported: 03/01/95
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QC Batch Number: GC0224950HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	500	10000 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Geraghty & Miller 1050 Marina Way South Richmond, CA 94504	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502224-01	Sampled: 02/01/95 Received: 02/03/95 Analyzed: 02/17/95 Reported: 03/01/95
Attention: Edward Crump		

QC Batch Number: GC021795BTEX06A
 Instrument ID: GCHP06


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	510
Benzene	1.0	N.D.
Toluene	1.0	N.D.
Ethyl Benzene	1.0	1.0
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern: Non Gas Mix		>C8

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Geraghty & Miller 1050 Marina Way South Richmond, CA 94504	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9502224-02	Sampled: 02/01/95 Received: 02/03/95 Extracted: 02/10/95 Analyzed: 02/11/95 Reported: 03/01/95
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QC Batch Number: GC0209950HBPEXA
Instrument ID: GCHP5A

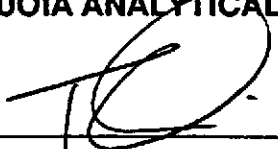
Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	2100
Chromatogram Pattern: Diesel & Non Diesel Mix		C14-C24

Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	186 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Geraghty & Miller 1050 Marina Way South Richmond, CA 94504	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502224-02	Sampled: 02/01/95 Received: 02/03/95 Analyzed: 02/17/95 Reported: 03/01/95
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QC Batch Number: GC021795BTEX06A
 Instrument ID: GCHP06

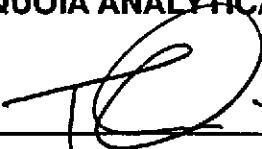
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	N.D.
Benzene	1.0	2.1
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern: Non Gas Mix		>C10

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Geraghty & Miller
1050 Marina Way South
Richmond, CA 94504

Attention: Edward Crump

Client Proj. ID: RC0027.010, 8400 Pardee Dr.
Sample Descript: MW-3
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9502224-03

Sampled: 02/01/95
Received: 02/03/95
Extracted: 02/10/95
Analyzed: 02/11/95
Reported: 03/01/95

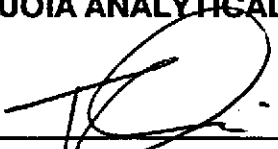
QC Batch Number: GC0209950HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	500	10000 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	0 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Geraghty & Miller 1050 Marina Way South Richmond, CA 94504	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502224-03	Sampled: 02/01/95 Received: 02/03/95 Analyzed: 02/17/95 Reported: 03/01/95
Attention: Edward Crump		

QC Batch Number: GC021795BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	810
Benzene	1.0	N.D.
Toluene	1.0	N.D.
Ethyl Benzene	1.0	2.7
Xylenes (Total)	1.0	4.1
Chromatogram Pattern: Non Gas Mix		>C8

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Todd Olive
Project Manager





Geraghty & Miller 1050 Marina Way South Richmond, CA 94504 Attention: Edward Crump	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-7 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9502224-04	Sampled: 02/01/95 Received: 02/03/95 Extracted: 02/10/95 Analyzed: 02/11/95 Reported: 03/01/95
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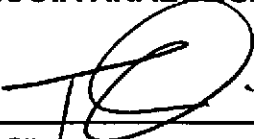
QC Batch Number: GC0209950HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Non Diesel Mix	50	420 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 117

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager





Geraghty & Miller 1050 Marina Way South Richmond, CA 94504	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: MW-7 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502224-04	Sampled: 02/01/95 Received: 02/03/95 Analyzed: 02/17/95 Reported: 03/01/95
Attention: Edward Crump		

QC Batch Number: GC021795BTEX06A
Instrument ID: GCHP06

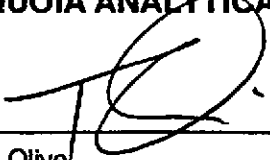
Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



 Todd Olive
 Project Manager






Geraghty & Miller 1050 Marina Way South Richmond, CA 94504	Client Proj. ID: RC0027.010, 8400 Pardee Dr.	Sampled: 02/01/95 Received: 02/03/95 Analyzed: see below
Attention: Edward Crump	Lab Proj. ID: 9502224	Reported: 03/01/95

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9502224-04 Sample Desc: LIQUID,MW-7				
TRPH (SM 5520 B&F)	mg/L	02/13/95	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Todd Olive
Project Manager





Sequoia Analytical

690 Chesapeake Drive
1900 Bates Avenue, Suite L
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Concord, CA 94520
Sacramento, CA 95834

(415) 364-9600
(510) 686-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 686-9689
FAX (916) 921-0100

Geraghty & Miller 1050 Marina Way South Richmond, CA 94504 Attention: Edward Crump	Client Proj. ID: RC0027.010, 8400 Pardee Dr. Sample Descript: TB-LB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9502224-05	Sampled: 02/01/95 Received: 02/03/95 Analyzed: 03/06/95 Reported: 03/07/95
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QC Batch Number: GC030695BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #2000



Todd Olive
Project Manager

Project Number RC0027.010

Project Location URS Oakland

Laboratory Sequoia Analytical

Sampler(s)/Affiliation G. Crowley
Geraghty & Miller

SAMPLE BOTTLE / CONTAINER DESCRIPTION									
TPH - Diesel					8015				
950224									

SAMPLE IDENTITY Code Date/Time Sampled Lab ID TOTAL

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION						TOTAL
MW-1	L	2/22/95		X						2
										0.18
										E.F.

Total No. of Bottles/Containers 2

Sample Code: L = Liquid; S = Solid; A = Air

Relinquished by: <u>[Signature]</u>	Organization: <u>Geraghty & Miller</u>	Date: <u>2/22/95</u> Time: <u>11:05</u>	Seal Intact? Yes No N/A
Received by: <u>[Signature]</u>	Organization: <u>Chgois</u>	Date: <u>2/22/95</u> Time: <u>11:05</u>	
Relinquished by: <u>[Signature]</u>	Organization: <u>Sequoia</u>	Date: <u>2/22/95</u> Time: <u>1:30</u>	Seal Intact? Yes No N/A
Received by: <u>[Signature]</u>	Organization: <u>Sequoia</u>	Date: <u>2/22/95</u> Time: <u>1:30</u>	

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Lab Courier Other _____