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Transmitted Via UPS Next Day Air

May 22, 2003

Mr. Amir K. Gholami, REHS
Hazardous Materials Specialist
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: Groundwater Monitoring & Sampling September 2002
UPS – Oakland Hub
8400 Pardee Drive
Oakland, California
State ID # 583
BBL Project #: 36768.03

Dear Mr. Gholami:

On behalf of United Parcel Service (UPS), Blasland, Bouck & Lee, Inc. (BBL) is transmitting herewith the Second Semi-Annual 2002 Monitoring & Sampling Report for the above-referenced facility. This report describes groundwater monitoring efforts performed at the site in September 2002. The groundwater monitoring events were conducted in accordance with the Work Plan approval letter, dated August 8, 1997, from the Alameda County Health Care Services Agency. If you have any questions regarding this report, please doe not hesitate to contact me at (770) 428-9009 extension 11.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Hugh B. Devery
Senior Geologist

REGISTERED GEOLOGIST
ALISON Y BROWN
NO. 4862
STATE OF CALIFORNIA

Alison Y. Brown, P.G.
Senior Geologist

HBD/rbl

cc: Linda Lyons, UPS w/ attachments
File

01432368 cover ltraybb.doc

REPORT

Year 2002 Second Semi-Annual Monitoring & Sampling Report

UPS – Oakland Hub
8400 Pardee Drive
Oakland, California

State ID # 583

United Parcel Service
55 Glenlake Parkway, NE
Atlanta, Georgia 30328

May 2003

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TECHNICAL REPORT

Year 2002 Second Semi-Annual Monitoring & Sampling Report

UPS – Oakland Hub
8400 Pardee Drive
Oakland, California

State ID # 583

United Parcel Service
55 Glenlake Parkway, NE
Atlanta, Georgia 30328

May 2003

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1 Groundwater Monitoring & Sampling

1.1. Introduction

United Parcel Service (UPS) retained Blasland, Bouck & Lee, Inc. (BBL) to perform groundwater monitoring at the UPS-Oakland Center located at 8400 Pardee Drive, Oakland, California (**Figures 1** and **2**). This report describes results of groundwater monitoring performed in September 2002. Groundwater monitoring was conducted in accordance with the Alameda County Health Care Agency–approved work plan (BBL, August 1997).

Groundwater samples were collected from the four groundwater monitoring wells (MW-1 through MW-3 and OW-1). Monitoring was conducted on September 3 and September 27, 2002 in accordance with the groundwater monitoring procedures described in **Appendix A**. Water levels were measured prior to purging the wells. Purge water was monitored to document stabilization of pH, temperature, and conductivity parameters (**Appendix B**). Disposal of purged water is described in Section 1.4.

1.2. Water Levels

Depths to water in the four monitoring wells were measured on September 3, 2002. Static fluid levels in the wells were measured to an accuracy of 0.01-ft using an electronic interface probe that is capable of detecting water and phase-separated hydrocarbon (PSH). Depth to water and depth to free product, if present, were recorded. Measured depths ranged from 3.73 feet below top of casing (btoc) in MW-1 to 6.93 feet btoc in OW-1 (**Table 1**). Free product was detected in MW-2 and OW-1 at an apparent thickness of 0.08 and 0.10 feet, respectively. Water elevations in the four measured monitoring wells in September 3, 2002 were approximately 0.05 feet higher on average than water levels measured in October 2000. Generalized groundwater contour maps, prepared using the September 2002 and October 2000 groundwater elevation data, are shown on **Figures 3** and **4**. Groundwater flow is to the southwest, which agrees with historical direction.

1.3. Water Quality

Groundwater samples from MW-1 and MW-3 were collected on September 3, 2002. No samples were collected from MW-2 and OW-1 at that time due to free product being detected in the wells. Personnel returned to the site on September 27, 2002 and bailed off the detected free product from MW-2 and OW-1 and then sampled each well. Both sets of samples were analyzed for total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015M and for TPH-g (gasoline), benzene, toluene, ethylbenzene, total xylenes, and methyl tert-butyl ether (BTEX/MTBE) by EPA Method 8260B. Analyses were conducted by SPL in Houston, Texas, certified for environmental analyses by the California Department of Health Services (certificate number: 1903). Summaries of the groundwater analytical data are presented in **Table 2** and on **Figure 5**. The laboratory analytical results and chain-of-custody documentation are attached as **Appendix C**.

BTEX analytes were detected in three of the wells sampled during the September 2002 monitoring event. The groundwater sample collected from MW-1 contained xylenes at a concentration of 0.5 micrograms per liter (µg/L). The groundwater samples collected from monitoring wells MW-2 and OW-1 contained benzene at estimated concentrations of 0.7 µg/L and 0.6 µg/L, respectively. Detected BTEX concentrations were not above the Maximum Contaminant Levels (MCL) for any of the constituents detected. TPH-g was detected in monitoring wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 1.2 milligrams per liter (mg/L), MW-2 with a concentration of 17 mg/L, MW-3 with a concentration of 2.3 mg/L and OW-1 with a concentration of 17 mg/L. TPH-d was detected in wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a

concentration of 38 mg/L, MW-2 with a concentration of 67 mg/L, MW-3 with a concentration of 14 mg/L and OW-1 with a concentration of 23 mg/L. There is currently no established MCL for TPH-g or TPH-d.

MTBE was not detected above the laboratory detection limit in the groundwater samples collected during the September 2002 sampling event.

1.4. Purge Water Handling

The water generated from groundwater sampling activities was contained in 55-gallon drums and stored at the UPS center. Upon completion of the 4th Quarter 2003 groundwater sampling, proper disposal of investigation derived waste (IDW) will be arranged.

1.5. Summary

1. Groundwater samples were collected on September 3 and September 27, 2002 and sampled for BTEX, MTBE, TPH-g and TPH-d.

2. Measured depths to water ranged from 3.73 feet btoc in MW-1 to 6.93 feet btoc in OW-1. Water elevations in the four measured monitoring wells in September 3, 2002 were approximately 0.05 feet higher on average than water levels measured in October 2000. Groundwater flow direction was to the southwest, which is consistent with historical data.

3. BTEX analytes were detected in three of the four monitoring wells. Detected concentrations in the samples collected were not above the California Maximum Containment Levels for any of the constituents detected. Well MW-1 contained xylenes at a concentration of 0.5 µg/L. Wells MW-2 and OW-1 contained estimated benzene concentrations of 0.7 µg/L and 0.6 µg/L, respectively.

4. TPH-g was detected in monitoring wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 1.2 mg/L, MW-2 with a concentration of 17 mg/L, MW-3 with a concentration of 2.3 mg/L and OW-1 with a concentration of 17 mg/L. TPH-d was detected in wells MW-1, MW-2, MW-3 and OW-1; MW-1 with a concentration of 38 mg/L, MW-2 with a concentration of 67 mg/L, MW-3 with a concentration of 14 mg/L and OW-1 with a concentration of 23 mg/L. There is currently no established MCLs for TPH-g or TPH-d.

5. MTBE was not detected above the laboratory detection limit in the wells sampled in September 2002.

References:

Blasland, Bouck & Lee, Inc., 1997. Work Plan for UPS Distribution Center, 8400 Pardee Drive, Oakland, California.

FIGURES

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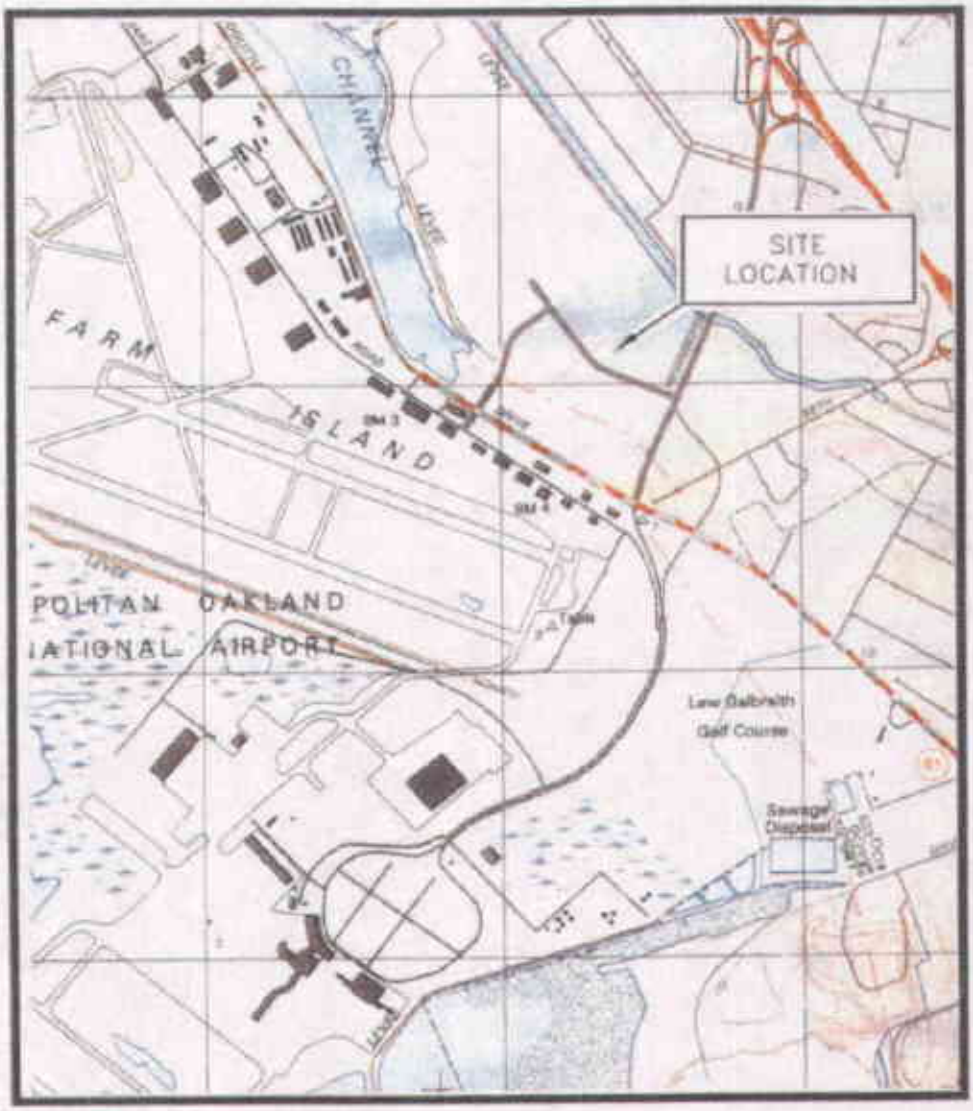


NOTES:

1. Base Map Source: USGS 7.5 Min. Topo. Quad., San Leandro, Calif.(1993)
2. Property Location is Approximate Only.

0 2000' 4000'

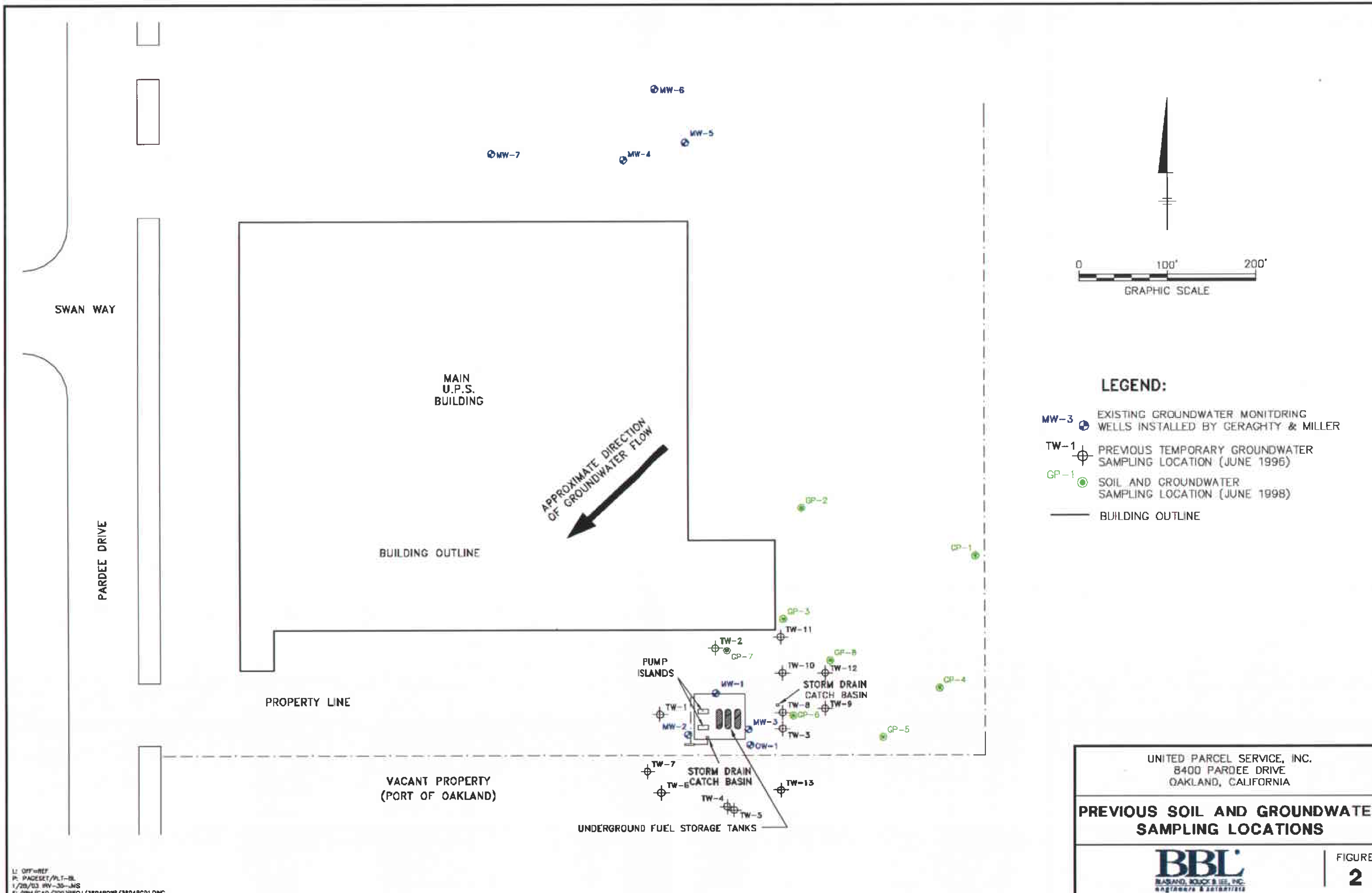
APPROXIMATE SCALE: 1"=2000'

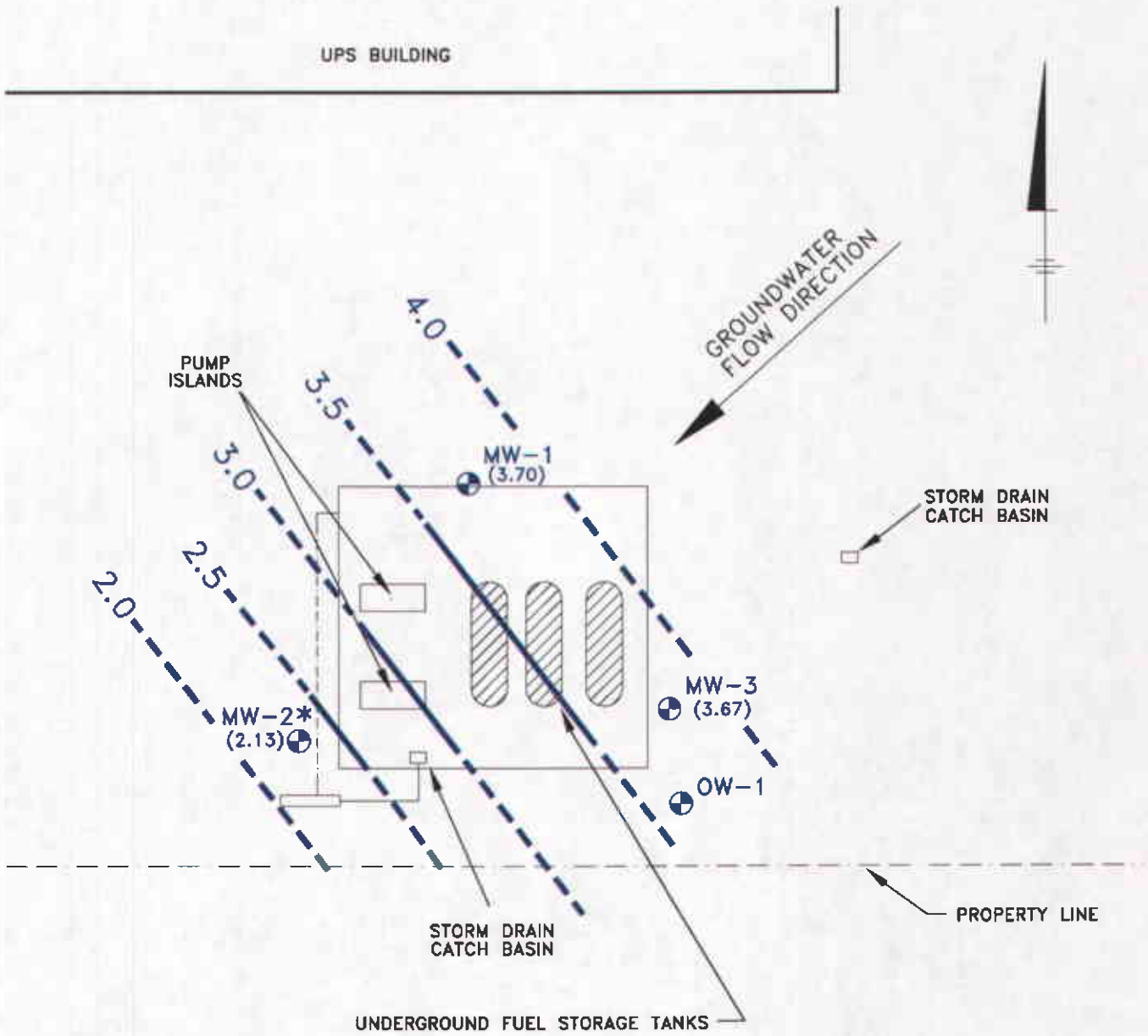
UNITED PARCEL SERVICE, INC.
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA

TOPOGRAPHIC MAP OF SITE LOCATION AND VICINITY

BBL

FIGURE
1


MW-6
MW-5
MW-4
MW-7
SWAN WAY
PARDEE DRIVE
MAIN
U.P.S.
BUILDING
APPROXIMATE DIRECTION
OF GROUNDWATER FLOW
BUILDING OUTLINE
PROPERTY LINE
VACANT PROPERTY
(PORT OF OAKLAND)
GP-2
GP-1
GP-3
TW-11
TW-2
GP-7
GP-8
TW-10
TW-12
PUMP
ISLANDS
MW-1
STORM DRAIN
CATCH BASIN
TW-1
TW-8
TW-9
GP-6
GP-4
MW-2
MW-3
TW-3
GP-5
OW-1
TW-7
TW-6
STORM DRAIN
CATCH BASIN
TW-13
TW-4
TW-5
UNDERGROUND FUEL STORAGE TANKS
0
100'
200'
GRAPHIC SCALE
LEGEND:
MW-3 EXISTING GROUNDWATER MONITORING WELLS INSTALLED BY GERAGHTY & MILLER
TW-1 PREVIOUS TEMPORARY GROUNDWATER SAMPLING LOCATION (JUNE 1996)
GP-1 SOIL AND GROUNDWATER SAMPLING LOCATION (JUNE 1998)
BUILDING OUTLINE
UNITED PARCEL SERVICE, INC.
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
PREVIOUS SOIL AND GROUNDWATER
SAMPLING LOCATIONS
BBL
BLASLAND, BOUCK & LEE, INC.
FIGURE
2



LEGEND:

MW-1 (3.68) EXISTING GROUNDWATER MONITORING WELLS INSTALLED BY GERAGHTY & MILLER (GROUNDWATER TABLE ELEVATION IN FEET ABOVE MSL)

—2.0— GROUNDWATER ELEVATION CONTOUR

* GROUNDWATER ELEVATION NOT CORRECTED FOR <0.1 FEET OF PRODUCT PRESENT IN WELL

NOTES:

1. OW-1 WAS NOT USED TO GENERATE CONTOURS.
2. MEASURED 9/3/02.

0 30' 60'

GRAPHIC SCALE

L: OFF-REF
P: PAGESET/PLT-AP
5/21/03/RV-80-JMS
F: /BM/CAD/2003PRO//3694801R/3694801W2.DWG

UNITED PARCEL SERVICE, INC.
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA

GROUNDWATER CONTOUR MAP SEPTEMBER 2002

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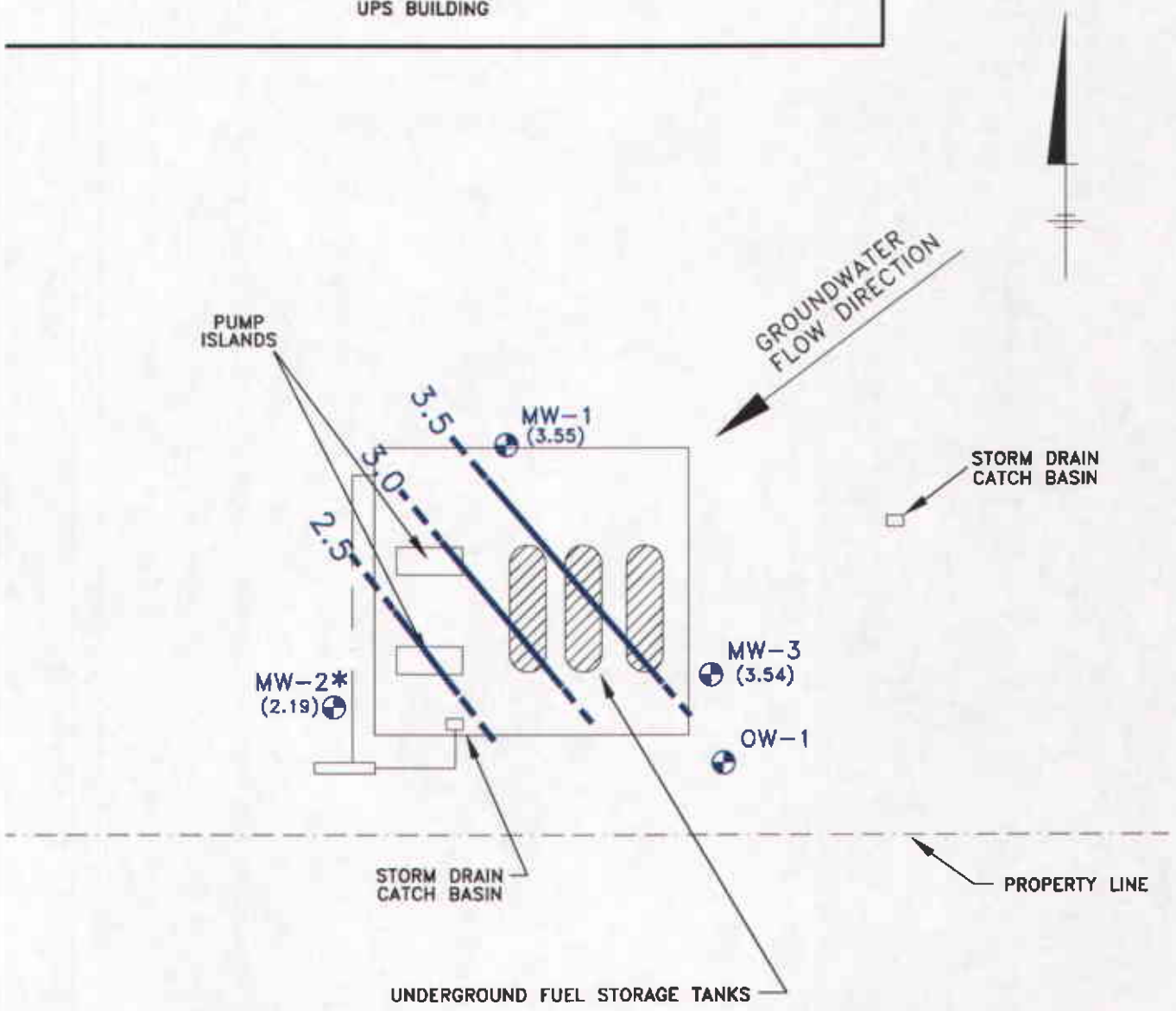
FIGURE 3



LEGEND:

MW-1 (3.55) — EXISTING GROUNDWATER MONITORING WELLS INSTALLED BY GERAGHTY & MILLER (GROUNDWATER TABLE ELEVATION IN FEET ABOVE MSL)

—3.0— GROUNDWATER ELEVATION CONTOUR

* GROUNDWATER ELEVATION NOT CORRECTED FOR <0.1 FEET OF PRODUCT PRESENT IN WELL

NOTES: 1. OW-1 WAS NOT USED TO GENERATE CONTOURS.

2. MEASURED 10/11/00

0 30' 60'

GRAPHIC SCALE

L: OFF-REF
P: PAGESET/PLT-AP
5/21/03 IRV-BO-JMS
F:/BM/CAD/2003PROJ/3694BGW1.DWG

UNITED PARCEL SERVICE, INC.
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA

GROUNDWATER CONTOUR MAP OCTOBER 2000

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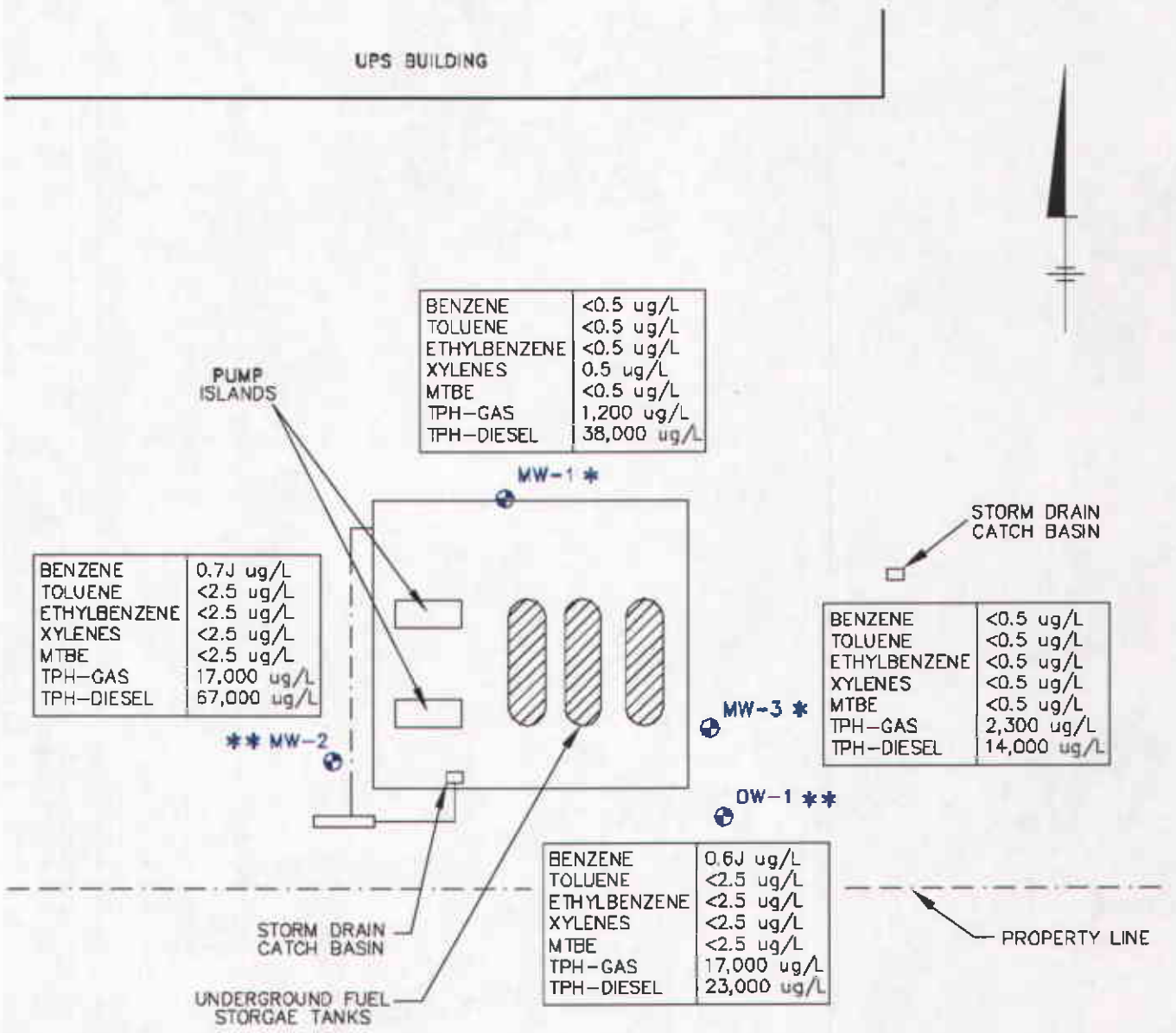
FIGURE 4



LEGEND:

MW-1 EXISTING GROUNDWATER MONITORING WELLS INSTALLED BY GERAGHTY & MILLER

* SAMPLED 9/3/2002

** SAMPLED 9/27/2002

J LABORATORY ESTIMATED VALUE BETWEEN MDL AND PQL

0 30' 60'

GRAPHIC SCALE

L: OFFICE
P: PAGESET/PLT-AP
1/28/03 IRV-35-JMS
F:/BM/CAD/2003PROJ/3664801R/36648D01.DWG

UNITED PARCEL SERVICE, INC.
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA

GROUNDWATER QUALITY MAP SEPTEMBER 2002

BLAINE, BOUCK & LEE, INC. engineers & scientists

FIGURE 5

TABLES

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TABLE 1

HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (mg/L)	Product Thickness
MW-1	7.43	8/28/1990	3.80	3.63	--	Sheen
		9/20/1990	3.99	3.44	-0.19	N/A
		6/19/1991	3.47	3.96	0.52	N/A
		7/23/1991	3.70	3.73	-0.23	N/A
		8/26/1991	3.92	3.51	-0.22	N/A
		11/18/1991	4.21	3.22	-0.29	N/A
		2/3/1992	3.99	3.44	0.22	N/A
		6/29/1992	3.38	4.05	0.61	N/A
		6/23/1993	2.72	4.71	0.66	N/A
		10/11/1993	3.87	3.56	-1.15	N/A
		1/4/1994	3.34	4.09	0.53	N/A
		5/10/1994	2.14	5.29	1.20	N/A
		2/1/1995	1.84	5.59	0.30	N/A
		8/2/1995	3.10	4.33	-1.26	N/A
		10/16/1995	3.75	3.68	-0.65	N/A
		12/28/1995	3.56	3.87	0.19	N/A
		6/4/1997	3.16	4.27	0.40	None Present
		6/3/1998	NM	N/A	M/A	Sheen
		9/30/1999	3.75	3.68	-0.59	Light Sheen
		10/11/2000	3.88	3.55	-0.13	Light Sheen
		9/3/2002	3.73	3.70	0.15	Light Sheen

Notes:

1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NA = Not analyzed; NM = Not measured; NC = Not calculated; N/A= Not Available

TABLE 1

HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (mg/L)	Product Thickness
MW-2	7.15	8/28/1990	4.98	2.17	--	Sheen
		9/20/1990	4.94	2.21	0.04	N/A
		6/19/1991	4.66	2.49	0.28	N/A
		7/23/1991	4.81	2.34	-0.15	N/A
		8/26/1991	4.89	2.26	-0.08	N/A
		11/18/1991	4.93	2.22	-0.04	N/A
		2/3/1992	4.44	2.71	0.49	N/A
		6/29/1992	4.80	2.35	-0.36	N/A
		6/23/1993	4.38	2.77	0.42	N/A
		10/11/1993	5.20	1.95	-0.82	N/A
		1/4/1994	4.56	2.59	0.64	N/A
		5/10/1994	4.20	2.95	0.36	N/A
		2/1/1995	4.00	3.15	0.20	N/A
		8/2/1995	4.71	2.44	-0.71	N/A
		10/16/1995	5.02	2.13	-0.31	N/A
		12/28/1995	4.56	2.59	0.46	N/A
		6/12/1996	NM	N/A	N/A	0.25-foot
		6/4/1997	6.02	1.13	-1.46	Small globules
		9/30/1999	4.95	2.20	1.07	Light sheen
		10/11/2000	4.97	2.18	-0.02	0.08-foot
		9/3/2002	5.02	2.13	-0.05	0.08-foot

Notes:

1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NA = Not analyzed; NM = Not measured; NC = Not calculated; N/A= Not Available
5. Groundwater elevations are not corrected for the presence of product.

TABLE 1

HISTORICAL GROUNDWATER ELEVATION SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Reference Elevation	Date Sampled	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Change in Measurement (mg/L)	Product Thickness
MW-3	7.42	8/28/1990	3.88	3.54	--	Sheen
		9/20/1990	3.99	3.43	-0.11	N/A
		6/19/1991	3.49	3.93	0.50	N/A
		7/23/1991	3.71	3.71	-0.22	N/A
		8/26/1991	3.94	3.48	-0.23	N/A
		11/18/1991	4.23	3.19	-0.29	N/A
		2/3/1992	4.01	3.41	0.22	N/A
		6/29/1992	3.40	4.02	0.61	N/A
		6/23/1993	2.75	4.67	0.65	N/A
		10/11/1993	3.84	3.58	-1.09	N/A
		1/4/1994	3.40	4.02	0.44	N/A
		5/10/1994	2.25	5.17	1.15	N/A
		2/1/1995	2.43	4.99	-0.18	N/A
		8/2/1995	3.20	4.22	-0.77	N/A
		10/16/1995	3.72	3.70	-0.52	N/A
		12/28/1995	3.56	3.86	0.16	N/A
		6/4/1997	3.20	4.22	0.36	None Present
		6/3/1998	NM	N/A	N/A	Sheen
		9/30/1999	3.72	3.70	-0.54	Light sheen
		10/11/2000	3.88	3.54	-0.16	Light Sheen
		9/3/2002	3.75	3.67	0.13	N/A
OW-1	N/A	6/4/1997	7.22	NC	NC	Trace
		9/30/1999	8.35	NC	-1.13	0.01-foot
		10/11/2000	6.90	NC	1.45	0.09-foot
		9/3/2002	6.93	NC	-0.03	0.10-foot

Notes:

1. Reference elevation surveyed relative to mean sea level by Geraghty and Miller (Geraghty and Miller, Inc., 1990)
2. Depth to groundwater measured from notch/mark on north edge of well casing
3. Sources: Geraghty and Miller, 1996; BBL
4. NA = Not analyzed; NM = Not measured; NC = Not calculated; N/A= Not Available

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (µg/L)	TPH as diesel (µg/L)	D.O. (mg/L)
MW-1	8/28/1990	**3**	**1.4**	4	**2.4**	NA	NA	**21,000**	NA
	6/19/1991	**1.7**	**0.7**	**0.5**	**0.9**	NA	NA	**7,100**	NA
	7/23/1991	**1.6**	**1.1**	**0.5**	**1.5**	NA	**220**	**8,700**	NA
	8/26/1991	**180**	**120**	**31**	**160**	NA	NA	**2,800**	NA
	11/18/1991	**1.1**	**0.4**	**0.5**	< 0.3	NA	NA	**6,600**	NA
	2/3/1992	**0.9**	< 0.3	**0.8**	**0.7**	NA	NA	**2,200**	NA
	6/29/1992	**0.8**	**0.4**	**0.4**	**0.9**	NA	NA	**2,100**	NA
	6/23/1993	**0.66**	< 0.5	**0.5**	< 0.5	NA	NA	**3,200**	NA
	10/11/1993	**1.3**	< 0.5	< 0.5	< 0.5	NA	NA	**9,600**	NA
	1/4/1994	**2.1**	**0.65**	**1.3**	**2.1**	NA	NA	**12,000**	NA
	5/10/1994	**0.54**	**0.53**	< 0.5	**1.1**	NA	NA	**6,400**	NA
	2/1/1995	< 1.0	< 1.0	**1**	< 1.0	NA	**510**	**10,000**	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	**510**	**8,700**	NA
	10/16/1995	**2.8**	< 0.5	< 0.5	< 0.5	NA	**830**	**15,000**	NA
	12/28/1995	**2.1**	< 0.5	< 0.5	< 0.5	NA	**560**	**15,000**	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	**28,000**	**0.76**
	9/30/1999	< 0.5	**0.6**	< 0.5	**1.8**	<3	**1,600**	**28,000**	**9.9**
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5	**260**	**21,000**	**0.39**
	9/3/2002	<0.5	<0.5	<0.5	**0.5**	<0.5	**1,200**	**38,000**	NA
MCL	--	1	150	700	1750	13	N/A	N/A	--

Notes:

1. Units are micrograms per liter (µg/L) unless otherwise indicated.
2. NA = Not Analyzed; NS = Not Sampled; ND = Not Detected
3. TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.
4. Title 22 of the California Code of Regulations, California Maximum Containment Levels (MCLs) for drinking water.
5. D.O. = Dissolved Oxygen measured in the field.
6. Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).
7. Bold values indicate analytical detections.
8. The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.
9. The 6/4/97 sample revealed the following PAHs by EPA 8100: acenaphthylene 10 ug/L; fluorine 17 ug/L; phenanthrene 10 ug/L.
10. J - Estimated value between MDL and PQL.

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (µg/L)	TPH as diesel (µg/L)	D.O. (mg/L)
MW-2	8/28/1990	**0.6**	**0.4**	**0.6**	**0.7**	NA	NA	**3,500**	NA
	6/19/1991	**0.5**	< 0.3	< 0.3	< 0.3	NA	NA	< 50.0	NA
	7/23/1991	**0.7**	< 0.3	< 0.3	< 0.3	NA	< 50	**660**	NA
	8/26/1991	**0.7**	< 0.3	< 0.3	< 0.3	NA	NA	< 50.0	NA
	11/18/1991	**0.8**	< 0.3	< 0.3	< 0.3	NA	NA	**3,200**	NA
	2/3/1992	**0.7**	< 0.3	< 0.3	**0.5**	NA	NA	**400**	NA
	6/29/1992	**0.6**	< 0.3	< 0.3	< 0.3	NA	NA	**250**	NA
	6/23/1993	**0.55**	< 0.5	< 0.5	< 0.5	NA	NA	**11,000**	NA
	10/11/1993	**1.2**	< 0.5	< 0.5	**1.3**	NA	NA	**1,400**	NA
	1/4/1994	**0.72**	< 0.5	< 0.5	**1.1**	NA	NA	**3,700**	NA
	5/10/1994	**0.74**	< 0.5	< 0.5	**0.7**	NA	NA	**2,300**	NA
	2/1/1995	**2.1**	< 1.0	< 1.0	< 1.0	NA	< 100	**2,100**	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	**210**	**3,600**	NA
	10/16/1995	**0.73**	< 0.5	< 0.5	< 0.5	NA	**130**	**1,400**	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	**210**	**2,800**	NA
	6/12/1996	NS	NS	NS	NS	NS	NS	NS	NS
	6/4/1997	NA	NA	NA	NA	NA	NA	**3,300**	**0.52**
	9/30/1999	< 0.5	< 0.5	< 0.5	< 1.0	< 3.0	**220**	**6,300**	**9.5**
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	**170**	**4,400**	**0.43**
	9/27/2002	**0.7J**	<2.5	<2.5	<2.5	<2.5	**17,000**	**67,000**	NA
MCL	--	1	150	700	1750	13	N/A	N/A	--

Notes:

1. Units are micrograms per liter (µg/L) unless otherwise indicated.
2. NA = Not Analyzed; NS = Not Sampled; ND = Not Detected
3. TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.
4. Title 22 of the California Code of Regulations, California Maximum Containment Levels (MCLs) for drinking water.
5. D.O. = Dissolved Oxygen measured in the field.
6. Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).
7. Bold values indicate analytical detections.
8. The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.
9. The 6/4/97 sample revealed the following PAHs by EPA 8100: acenaphthylene 10 ug/L; fluorine 17 ug/L; phenanthrene 10 ug/L.
10. J - Estimated value between MDL and PQL.

TABLE 2

HISTORICAL GROUNDWATER MONITORING RESULTS SUMMARY

UPS-OAKLAND HUB
8400 PARDEE DRIVE
OAKLAND, CALIFORNIA
STATE ID # 583

Monitoring Well	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TPH as gasoline (µg/L)	TPH as diesel (µg/L)	D.O. (mg/L)
MW-3	8/28/1990	**0.5**	**0.8**	**4.3**	**2.3**	NA	NA	**18,000**	NA
	6/19/1991	**0.4**	**0.4**	**1.7**	**1.4**	NA	NA	**1,300**	NA
	7/23/1991	**0.3**	< 0.3	**1.5**	**0.5**	NA	**330**	**6,800**	NA
	8/26/1991	**13**	**13**	**5.8**	**26**	NA	NA	< 50.0	NA
	11/18/1991	**0.6**	< 0.3	< 0.3	< 0.3	NA	NA	**2,500**	NA
	2/3/1992	**0.4**	< 0.3	**1.3**	**0.6**	NA	NA	**1,100**	NA
	6/29/1992	< 0.3	< 0.3	**1.3**	**0.3**	NA	NA	**3,200**	NA
	6/23/1993	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	**8,100**	NA
	10/11/1993	**1**	< 0.5	**1.5**	2.4	NA	NA	**7,100**	NA
	1/4/1994	< 0.5	< 0.5	**1.6**	< 0.5	NA	NA	**7,400**	NA
	5/10/1994	< 0.5	< 0.5	< 0.5	< 0.5	NA	NA	**5,700**	NA
	2/1/1995	< 1.0	< 1.0	**2.7**	**4.1**	NA	**810**	**10,000**	NA
	8/2/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	**1,200**	**6,500**	NA
	10/16/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	**930**	**9,800**	NA
	12/28/1995	< 0.5	< 0.5	< 0.5	< 0.5	NA	**690**	**11,000**	NA
	6/4/1997	NA	NA	NA	NA	NA	NA	**34,000**	**0.84**
	9/30/1999	< 0.5	**0.6**	0.7	**1.2**	< 3.0	**1,300**	**8,700**	**8.6**
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	**430**	**20,000**	**0.51**
	9/3/2002	<0.5	<0.5	<0.5	<0.5	<0.5	**2,300**	**14,000**	NA
OW-1	6/23/1993	< 0.5	< 0.5	< 0.5	**31.0**	NA	NA	**3,400,000**	NA
	6/4/1997	NS	NS	NS	NS	NS	NS	NS	NS
	9/30/1999	< 2.0	< 2.0	< 2.0	**4.2**	< 12.0	**8,300**	**2,800,000**	9.7
	9/30/1999	< 1.0	< 1.0	**1.9**	**8.9**	< 6.0	**2,900**	**340,000**	--
	10/11/2000	< 0.5	< 0.5	< 0.5	< 1.0	< 5.0	**2,100**	**58,000**	0.74
	9/27/2002	**0.6J**	<2.5	<2.5	<2.5	<2.5	**17,000**	**23,000**	NA
MCL	--	1	150	700	1750	13	N/A	N/A	--

Notes:

1. Units are micrograms per liter (µg/L) unless otherwise indicated.
2. NA = Not Analyzed; NS = Not Sampled; ND = Not Detected
3. TPH = Total petroleum hydrocarbons; MTBE = Methyl tertiary butyl ether.
4. Title 22 of the California Code of Regulations, California Maximum Containment Levels (MCLs) for drinking water.
5. D.O. = Dissolved Oxygen measured in the field.
6. Results collected between the dates of 8/28/90 and 12/28/95 are based on prior reporting by Geraghty & Miller, Inc. (1996).
7. Bold values indicate analytical detections.
8. The 9/96, 10/96 BBL reports revealed concentrations reported as TPH as diesel did not resemble the diesel chromatogram standard, containing > C-26.
9. The 6/4/97 sample revealed the following PAHs by EPA 8100: acenaphthylene 10 ug/L; fluorine 17 ug/L; phenanthrene 10 ug/L.
10. J - Estimated value between MDL and PQL.

Appendix A

Standard Field Procedures

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engineers & scientists

STANDARD FIELD PROCEDURES FOR GROUNDWATER MONITORING AND WELL SAMPLING

Standard field procedures for groundwater sampling for UPS are as follows during the quarterly monitoring events.

Groundwater sampling Procedure

Prior to the collection of groundwater samples at the subject property, each well is sounded to determine depth to water and total well depth using a Heron Interface Probe. From this data, the wetted casing volume is calculated for each monitoring well. The electric sounder is cleaned in a solution of Liquinox and water, and triple-rinsed with de-ionized water before and after measuring each well.

The wells are purged a minimum of three wetted casing volumes prior to sampling utilizing a new disposable teflon bailer. Purged water from the casing and gravel pack is contained in labeled, sealed, DOT-approved 55-gallon drums. This purge water is stored on-site in a designated hazardous waste storage area until proper disposal can be determined based on groundwater sampling laboratory results.

Dedicated latex surgical gloves and string are used when sampling each well. A new disposable teflon bailer is used to sample each well to avoid the potential for cross-contamination. Upon collection, the groundwater samples are transferred from the Teflon sampling bailer to clean, laboratory-provided, sample containers. The sample containers are filled, labeled and sealed with teflon-lined screw lids and septa. The sample containers are double-bagged in self-locking plastic bags to prevent cross-contamination, placed on ice to prevent possible volatilization, and transported to a California state certified laboratory. Transportation of the samples follows industry standard chain-of-custody protocol. In addition, a duplicate sample is collected from one of the monitoring wells. The duplicate sample and the laboratory-supplied trip blank are also transported in the iced cooler with the other collected groundwater samples.

Decontamination Procedures

The non-disposable field drilling and sampling equipment is cleaned prior and after use. Field equipment is cleaned with a solution of Liquinox (or equivalent) and water. Prior to each use all field equipment is subsequently, triple rinsed with the final being de-ionized water. Field equipment decontamination quality assurance is validated by obtaining an equipment field blank sample if applicable. The field blank and a laboratory-supplied trip blank are also transported in the iced cooler with the collected groundwater samples. The Purge water and decontamination water is collected in 55-gallon DOT approved drums and temporarily stored on-site pending laboratory analysis.

Appendix B

Boring Logs & Well Gauging Data

BBL®
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engineers & scientists

WELL GAUGING DATA

Project # 020927-DA-1 Date 9/27/02 Client Blasland, Bouck + Lee

Site UPS @ 8400 Pardee Dr. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-2	4	FP	4.80	0.09		4.89	14.37	TOC	
OW-1	5	FP	6.88	0.14		7.02	18.32	↓	

WELL MONITORING DATA SHEET

Project #: 020927-DA-1	Client: Blasland, Bouck, and Lee
Sampler: David A.	Start Date: 9/27/02
Well I.D.: OW-1	Well Diameter: 2 3 (4) 6 8
Total Well Depth: 18.32	Depth to Water: 7.02
Before: After:	Before: After:
Depth to Free Product: 6.88	Thickness of Free Product (feet): 0.14
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other

Sampling Method:

- Bailer
- X Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other:

11.5 (Gals.) X 3 = 34.5 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65 (1.02)
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp. (F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
1242	68.1	6.2	4550	7200	11.5	odor, sheen, orange tint
1242	well dewatered @ 11.5 g			DTW= 16.43		
Prior To purging well was hand bailed for ~ 1hr. SPH						
thickness reduced to 0.00'				before purging		
1430	67.2	6.4	2974	7200	0	DTW= 15.50

Did well dewater? (Yes) No Gallons actually evacuated: 11.5

Sampling Time: 1435 Sampling Date: 9/27/02

Sample I.D.: OW-1 Laboratory: STL

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 020927-DA-1	Client: Blasland, Bouck, and Lee
Sampler: David A.	Start Date: 9/27/02
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.37	Depth to Water: 4.89
Before: After:	Before: After:
Depth to Free Product: 4.80	Thickness of Free Product (feet): 0.89
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer
X Disposable Bailer
Middleburg
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other ____

Sampling Method: Bailer
X Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ____

Grab Sample

____ (Gals.) X 3 = ____ Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or (µS))	Turbidity (NTU)	Gals. Removed	Observations
~~1335~~ 1335	Hand	bailed	SPH to a	thickness	of 0.00	for 15 min
1340	72.9	6.0	5209	~~7200~~ 5209	0	orange tint, strong odor, heavy sheen

Did well dewater? Yes (No) Gallons actually evacuated: 0

Sampling Time: 1345 Sampling Date: 9/27/02

Sample I.D.: MW-2 Laboratory: STL

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELLHEAD INSPECTION CHECKLIST AND REPAIR ORDER

Client Blasland, Bouck and Lee Inspection Date 9/3/02

Site Address 8400 Pardee dr. Oakland, CA Inspected By DA

1. Lid on box?	6. Casing secure?	12. Water standing in wellbox?	15. Well cap functional?
2. Lid broken?	7. Casing cut level?	12a. Standing above the top of casing?	16. Can cap be pulled loose?
3. Lid bolts missing?	8. Debris in wellbox?	12b. Standing below the top of casing?	17. Can cap seal out water?
4. Lid bolts stripped?	9. Wellbox is too far above grade?	12c. Water even with the top of casing?	18. Padlock present?
5. Lid seal intact?	10. Wellbox is too far below grade?	13. Well cap present?	19. Padlock functional?
	11. Wellbox is crushed/damaged?	14. Well cap found secure?	

☐ Check box if no deficiencies were found. Note below deficiencies you were able to correct.

Well I.D.	Deficiency	Corrective Action Taken
MW-1	Non BTS lock	New 2357
MW-3		
MW-2	No Lock	New 2357

Note below all defiencies that could not be corrected and still need to be corrected.

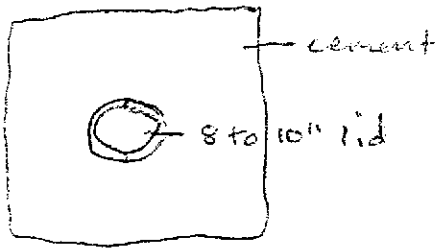
Well I.D.	Persisting Deficiency	BTS Office assigns or defers Correction to:	Date assigned	Date corrected
~~MW-1~~	~~no key to lock~~			
~~MW-3~~				
OW-1	NO cap; 5" well casing; wellbox lid needs to be propped open	BTS ABLE TO REPLACE WELLBOX & AUTHORIZE		
Note:	Ups contact indicated he would prefer well lids with "monitoring well" written on them rather than "water"	Call For Quote.		

9/3/02

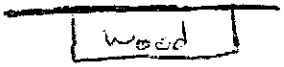
SITE: BBdL @ UPS OAKLAND, CA

OW-1

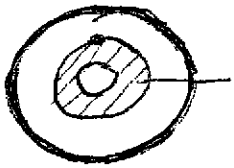
Top View



Side view; lid



well box; top view



WELL GAUGING DATA

Project # 020903-DA-2 Date 9/3/02 Client Blasland, Bouck and Lee

Site 8400 Pardee Dr. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	4		No SPH detected			3.73	14.00	TOC	
MW-2	4	O	4.94	0.07		5.02	14.37		
MW-3	4		No SPH detected			3.75	14.43		
OW-1	5or6	O	6.83	0.08		6.93	18.32		
	MW-2 & OW-1 NOT SAMPLED DUE TO PRESENCE OF IMMISCIBLE LIQUID								

WELL MONITORING DATA SHEET

Project #: 020903 - DA - 2	Client: Blasland, Bouck and Lee
Sampler: David A.	Start Date: 9/3/02
Well I.D.: MW - 1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.00	Depth to Water: 3.73
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: Bailer

- X Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

6.7 (Gals.) X 3 = 20.1 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or (µS))	Turbidity (NTU)	Gals. Removed	Observations
1204	78.8	6.7	1694	>200	7	grey, cloudy, slight odor
1205	77.9	6.7	1672	42	14	clearing
1207	77.9	6.7	1667	20	21	"

Did well dewater? Yes (No) Gallons actually evacuated: 21

Sampling Time: 1210 Sheen in vial Sampling Date: 9/3/02

Sample I.D.: MW - 1 Laboratory: SPL

Analyzed for: (TPH-G) BTEX MTBE (TPH-D) Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 020903 - DA - 2	Client: Blasland, Bouck and Lee
Sampler: David A.	Start Date: 9/3/02
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.43	Depth to Water: 3.75
Before: After:	Before: After:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- Disposable Bailer
- Middleburg
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other ___

Sampling Method: Bailer

- X Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: ___

7.0 (Gals.) X 3 = 21.0 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
1235	77.5	6.8	1563	7200	7	tan, cloudy, slight odor
1236	78.5	6.7	1480	~~7200~~ 150	14	"
1240	78.1	6.7	1506	74	21	"

Did well dewater? Yes (No)		Gallons actually evacuated: 21	
Sampling Time: 1245		Sampling Date: 9/3/02	
Sample I.D.: MW-3		Laboratory: SPL	
Analyzed for: (TPH-G) BTEX MTBE (TPH-D)		Other:	
Equipment Blank I.D.: @ Time		Duplicate I.D.:	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
D.O. (if req'd): Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd): Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 030116-DA-1 Date 1/16/03 Client BB+L

Site UPS @ 8400 Pardee Dr. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-2	4		4.26	0.02		4.28	14.37	TOC	
OW-1	5		4.97	0.01		4.98	18.32	↓	

WELL MONITORING DATA SHEET

Project #: 030116-DA-1	Client: RB+L
Sampler: David A.	Start Date: 1/16/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.37	Depth to Water: 4.25
Before: After:	Before: After:
Depth to Free Product: 4.26	Thickness of Free Product (feet): 0.02
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: Bailer

- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

_____(Gals.) X SPH bail = _____ Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	(4")	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius^2 * 0.163

Time	Temp. (°F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
	Bailed	49 ml of SPH		to a thickness of 0.00+0.25 g.		
	H_2O.					

Did well dewater? Yes (No) Gallons actually evacuated: 0.25

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 030116-DA-1	Client: BB+L
Sampler: David A.	Start Date: 1/16/03
Well I.D.: OW-1	Well Diameter: 2 3 4 6 8 5
Total Well Depth: 18.32	Depth to Water: 4.98
Before: After:	Before: After:
Depth to Free Product: 4.97	Thickness of Free Product (feet): 0.01
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- X Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: Bailer

- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

_____(Gals.) X SPH bail = _____ Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

5' 1.02

Time	Temp. (°F or °C)	pH	Conductivity (mS or µS)	Turbidity (NTU)	Gals. Removed	Observations
Removed 40 ml SPH + 0.25 g. H_2O. Boiled SPH to a						
thickness of 0.00'						

Did well dewater? Yes (No) Gallons actually evacuated: 0.25

Sampling Time: Sampling Date:

Sample I.D.: Laboratory:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

Appendix C

Analytical Laboratory Results

BBL®
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engineers & scientists

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

United Parcel Services

Certificate of Analysis Number:

02090919

Report To:		Project Name:	UPS - Oakland, CA #020927-DA-1
BBL		Site:	Oakland, CA
Hugh Devery		Site Address:	
975 Cobb Place Blvd. Suite 311			
Kennesaw		PO Number:	
GA		State:	California
30144-		State Cert. No.:	01142CA
ph: (770) 428-9009	fax:	Date Reported:	10/4/2002

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

10/4/2002

Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:

United Parcel Services

Certificate of Analysis Number:

02090919

Report To:		Project Name:	UPS - Oakland, CA #020927-DA-1
BBL		Site:	Oakland, CA
Hugh Devery		Site Address:	
975 Cobb Place Blvd. Suite 311			
Kennesaw		PO Number:	
GA		State:	California
30144-		State Cert. No.:	01142CA
ph: (770) 428-9009	fax:	Date Reported:	10/4/2002

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Bernadette Fini
Customer Service Manager

10/4/2002
Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

United Parcel Services

Certificate of Analysis Number:

02090919

Report To: BBL
Hugh Devery
975 Cobb Place Blvd. Suite 311

Kennesaw
GA
30144-
ph: (770) 428-9009 fax:

Fax To:

Project Name: UPS - Oakland, CA #020927-DA-1
Site: Oakland, CA
Site Address:

PO Number:
State: California
State Cert. No.: 01142CA
Date Reported: 10/4/2002

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-2	02090919-01	Water	9/27/2002 1:45:00 PM	9/28/2002 10:00:00 AM		☐
OW-1	02090919-02	Water	9/27/2002 2:35:00 PM	9/28/2002 10:00:00 AM		☐

Bernadette Fini
Customer Service Manager

10/4/2002
Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-2 **Collected:** 09/27/2002 13:45 **SPL Sample ID:** 02090919-01

Site: Oakland, CA

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**CA_DRO**		**Units: mg/L**		
Diesel Range Organics	67		1	20		10/01/02 2:31	AR	1339538
Surr: n-Pentacosane	D	%	20-150	20	*	10/01/02 2:31	AR	1339538

Prep Method	Prep Date	Prep Initials
SW3510C	09/28/2002 7:28	KL

VOLATILE ORGANICS BY MODIFIED 8260B			MCL	SW8260BMOD	Units: ug/L		
Benzene	0.7 J	2.5		5	10/02/02 13:48	DO	1340910
Ethylbenzene	ND	2.5		5	10/02/02 13:48	DO	1340910
Gasoline Range Organics	17000	250		5	10/02/02 13:48	DO	1340910
Methyl tert-butyl ether	ND	2.5		5	10/02/02 13:48	DO	1340910
Toluene	ND	2.5		5	10/02/02 13:48	DO	1340910
m&p-Xylene	ND	2.5		5	10/02/02 13:48	DO	1340910
o-Xylene	ND	2.5		5	10/02/02 13:48	DO	1340910
Total Xylene	ND	2.5		5	10/02/02 13:48	DO	1340910
Surr: Toluene d-8	95.0 %	70-130		5	10/02/02 13:48	DO	1340910

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID OW-1 **Collected:** 09/27/2002 14:35 **SPL Sample ID:** 02090919-02

Site: Oakland, CA

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				**MCL**	**CA_DRO**		**Units: mg/L**		
Diesel Range Organics	23		0.5		10		10/01/02 3:10	AR	1339539
Surr: n-Pentacosane	58.2	%	20-150		10		10/01/02 3:10	AR	1339539

Prep Method	Prep Date	Prep Initials
SW3510C	09/28/2002 7:28	KL

VOLATILE ORGANICS BY MODIFIED 8260B				MCL	SW8260BMOD		Units: ug/L		
Benzene	0.6 J		2.5		5		10/02/02 13:20	DO	1340909
Ethylbenzene	ND		2.5		5		10/02/02 13:20	DO	1340909
Gasoline Range Organics	17000		250		5		10/02/02 13:20	DO	1340909
Methyl tert-butyl ether	ND		2.5		5		10/02/02 13:20	DO	1340909
Toluene	ND		2.5		5		10/02/02 13:20	DO	1340909
m&p-Xylene	ND		2.5		5		10/02/02 13:20	DO	1340909
o-Xylene	ND		2.5		5		10/02/02 13:20	DO	1340909
Total Xylene	ND		2.5		5		10/02/02 13:20	DO	1340909
Surr: Toluene d-8	99.5	%	70-130		5		10/02/02 13:20	DO	1340909

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

10/4/2002 7:37:31 AM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

United Parcel Services

UPS - Oakland, CA #020927-DA-1

Analysis: Diesel Range Organics
Method: CA_DRO
WorkOrder: 02090919
Lab Batch ID: 22755

Method Blank

RunID: HP_V_021001B-1339534 Units: mg/L
Analysis Date: 09/30/2002 18:04 Analyst: AR
Preparation Date: 09/28/2002 7:28 Prep By: KL Method SW3510C

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02090919-01B	MW-2
02090919-02B	OW-1

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	80.0	20-150

Laboratory Control Sample (LCS)

RunID: HP_V_021001B-1339533 Units: mg/L
Analysis Date: 09/30/2002 17:25 Analyst: AR
Preparation Date: 09/28/2002 7:28 Prep By: KL Method SW3510C

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	1.2	47	21	175

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02090874-02
RunID: HP_V_021001B-1339536 Units: mg/L
Analysis Date: 09/30/2002 20:39 Analyst: AR
Preparation Date: 09/28/2002 7:28 Prep By: KL Method SW3510C

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	5	6.53	113	5	7.83	139	20.6 *	20	21	175

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

United Parcel Services

UPS - Oakland, CA #020927-DA-1

Analysis: Volatile Organics by Modified 8260B
Method: SW8260BMOD
WorkOrder: 02090919
Lab Batch ID: R69012

Method Blank

RunID: MSDVOA2_020924B-13409 Units: ug/L
Analysis Date: 10/02/2002 12:52 Analyst: DO

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02090919-01A	MW-2
02090919-02A	OW-1

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Gasoline Range Organics	ND	50
Methyl tert-butyl ether	ND	0.50
Toluene	ND	0.50
m&p-Xylene	ND	0.50
o-Xylene	ND	0.50
Total Xylene	ND	0.50
Surr: Toluene d-8	104.9	70-130

Laboratory Control Sample (LCS)

RunID: MSDVOA2_020924B-13409 Units: ug/L
Analysis Date: 10/02/2002 11:32 Analyst: DO

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	100	103	103	70	130
Ethylbenzene	100	100	100	70	130
Gasoline Range Organics	1150	1290	113	70	130
Methyl tert-butyl ether	50	47.9	96	70	130
Toluene	100	101	101	70	130
m&p-Xylene	200	206	103	70	130
o-Xylene	100	102	102	70	130
Total Xylene	300	308	103	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02090324-01
RunID: MSDVOA2_020924B-13409 Units: ug/L
Analysis Date: 10/02/2002 15:47 Analyst: DO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

United Parcel Services

UPS - Oakland, CA #020927-DA-1

Analysis: Volatile Organics by Modified 8260B
Method: SW8260BMOD

WorkOrder: 02090919
Lab Batch ID: R69012

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02090324-01
RunID: MSDVOA2_020924B-13409 Units: ug/L
Analysis Date: 10/02/2002 15:47 Analyst: DO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	101	101	100	104	104	3.10	20	70	130
Ethylbenzene	ND	100	101	101	100	104	104	3.19	20	70	130
Gasoline Range Organics	ND	1400	1620	115	1400	1670	118	2.53	20	70	130
Methyl tert-butyl ether	ND	200	198	98.8	200	207	103	4.59	20	70	130
Toluene	ND	100	101	101	100	105	105	3.10	20	70	130
m&p-Xylene	ND	200	202	101	200	209	104	3.52	20	70	130
o-Xylene	ND	100	100	100	100	103	100	3.3	20	70	130
Total Xylene	ND	300	302	101	300	312	104	3.26	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

Sample Receipt Checklist

And

Chain of Custody

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	02090919	Received By:	RE
Date and Time Received:	9/28/2002 10:00:00 AM	Carrier name:	FedEx
Temperature:	3	Chilled by:	Water Ice

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐	
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present ☑	
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑	
4.	**Chain of custody present?**	Yes ☑	No ☐		
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐		
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐		
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐		
8.	**Sample containers intact?**	Yes ☑	No ☐		
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐		
10.	**All samples received within holding time?**	Yes ☑	No ☐		
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐		
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	Not Applicable ☐	
13.	**Water - pH acceptable upon receipt?**	Yes ☑	No ☐	Not Applicable ☐	

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 020927-DA-1

CLIENT: Blasland, Bouck, & Lee, Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

LAB SPL 02090919 DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to : Blasland, Bouck,& Lee, Inc.

Attn: ~~Paul Bluestein or~~ Hugh Devery

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H_2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH-GAS (8015)	BTEX & MTBE (8260)	TPH-D (8015)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-2	9/27/02	1345	W	8		X	X	X	All VOAs Non	Preserved		
OW-1	9/27/02	1435	↓	8		X	X	X	All VOAs Non	Preserved		

SAMPLING COMPLETED: DATE 9/27/02 TIME 1530

SAMPLING PERFORMED BY: David Allbut

RESULTS NEEDED NO LATER THAN: As contracted 3c

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
David Allbut				9/28/02	1000

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

BJF EB

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

United Parcel Services

Certificate of Analysis Number:

02090122

Report To:		Project Name:	UPS -BBL BTS#020903-DA-1
BBL		Site:	Oakland, CA
Hugh Devery		Site Address:	
975 Cobb Place Blvd. Suite 311			
Kennesaw		PO Number:	
GA		State:	California
30144-		State Cert. No.:	01142CA
ph: (770) 428-9009	fax:	Date Reported:	9/13/2002

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

9/13/2002

Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:

United Parcel Services

Certificate of Analysis Number:

02090122

Report To:		Project Name:	UPS -BBL BTS#020903-DA-1
BBL		Site:	Oakland, CA
Hugh Devery		Site Address:	
975 Cobb Place Blvd. Suite 311			
Kennesaw		PO Number:	
GA		State:	California
30144-		State Cert. No.:	01142CA
ph: (770) 428-9009	fax:	Date Reported:	9/13/2002

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Your sample ID " MW-1 " (SPL ID: 02090122-01) was randomly selected for use in SPL's quality control program for the Volatile Organics analysis by SW846 Method 8260B. The MS and MSD recoveries were outside of the advisable quality control limits for Gasoline Range Organics (Batch ID: R67708) due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Joni Blankfield
Project Manager

9/17/2002
Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

United Parcel Services

Certificate of Analysis Number:

02090122

Report To: BBL
Hugh Devery
975 Cobb Place Blvd. Suite 311

Kennesaw
GA
30144-
ph: (770) 428-9009 fax:

Fax To:

Project Name: UPS -BBL BTS#020903-DA-1
Site: Oakland, CA
Site Address:

PO Number:
State: California
State Cert. No.: 01142CA
Date Reported: 9/13/2002

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	02090122-01	Water	9/3/2002 12:10:00 PM	9/5/2002 10:00:00 AM		☐
MW-3	02090122-02	Water	9/3/2002 12:45:00 PM	9/5/2002 10:00:00 AM		☐
TB 8/27/02	02090122-03	Water	9/3/2002 10:25:00 AM	9/5/2002 10:00:00 AM		☑

Joni Blankfield
Project Manager

9/13/2002
Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-1 **Collected:** 09/03/2002 12:10 **SPL Sample ID:** 02090122-01

Site: Oakland, CA

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				**MCL**	**CA_DRO**	**Units: mg/L**		
Diesel Range Organics	38		0.5	10		09/09/02 15:23	AR	1310849
Surr: n-Pentacosane	104	%	20-150	10		09/09/02 15:23	AR	1310849

Prep Method	Prep Date	Prep Initials
SW3510C	09/06/2002 11:58	J_L

VOLATILE ORGANICS BY MODIFIED 8260B				MCL	SW8260BMOD	Units: ug/L		
Benzene	ND		0.5	1		09/11/02 21:05	DO	1314026
Ethylbenzene	ND		0.5	1		09/11/02 21:05	DO	1314026
Gasoline Range Organics	1200		50	1		09/11/02 21:05	DO	1314026
Methyl tert-butyl ether	ND		0.5	1		09/11/02 21:05	DO	1314026
Toluene	ND		0.5	1		09/11/02 21:05	DO	1314026
m&p-Xylene	ND		0.5	1		09/11/02 21:05	DO	1314026
o-Xylene	0.5		0.5	1		09/11/02 21:05	DO	1314026
Total Xylene	0.5		0.5	1		09/11/02 21:05	DO	1314026
Surr: Toluene d-8	89.7	%	70-130	1		09/11/02 21:05	DO	1314026

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-3 **Collected:** 09/03/2002 12:45 **SPL Sample ID:** 02090122-02

Site: Oakland, CA

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				**MCL**	**CA_DRO**	**Units: mg/L**		
Diesel Range Organics	14		0.25	5		09/09/02 16:02	AR	1310850
Surr: n-Pentacosane	56.6	%	20-150	5		09/09/02 16:02	AR	1310850

Prep Method	Prep Date	Prep Initials
SW3510C	09/06/2002 11:58	J_L

VOLATILE ORGANICS BY MODIFIED 8260B				MCL	SW8260BMOD	Units: ug/L		
Benzene	ND		0.5		1	09/11/02 21:34	DO	1314027
Ethylbenzene	ND		0.5		1	09/11/02 21:34	DO	1314027
Gasoline Range Organics	2300		50		1	09/11/02 21:34	DO	1314027
Methyl tert-butyl ether	ND		0.5		1	09/11/02 21:34	DO	1314027
Toluene	ND		0.5		1	09/11/02 21:34	DO	1314027
m&p-Xylene	ND		0.5		1	09/11/02 21:34	DO	1314027
o-Xylene	ND		0.5		1	09/11/02 21:34	DO	1314027
Total Xylene	ND		0.5		1	09/11/02 21:34	DO	1314027
Surr: Toluene d-8	91.6	%	70-130		1	09/11/02 21:34	DO	1314027

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

United Parcel Services

UPS -BBL BTS#020903-DA-1

Analysis: Diesel Range Organics
Method: CA_DRO
WorkOrder: 02090122
Lab Batch ID: 22363

Method Blank

RunID: HP_V_020906A-1310826 Units: mg/L
Analysis Date: 09/06/2002 19:29 Analyst: AR
Preparation Date: 09/06/2002 11:58 Prep By: J_L Method SW3510C

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02090122-01B	MW-1
02090122-02B	MW-3

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	102.4	20-150

Laboratory Control Sample (LCS)

RunID: HP_V_020906A-1310824 Units: mg/L
Analysis Date: 09/06/2002 18:51 Analyst: AR
Preparation Date: 09/06/2002 11:58 Prep By: J_L Method SW3510C

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.5	100	21	175

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02090082-04
RunID: HP_V_020906A-1310833 Units: mg/L
Analysis Date: 09/07/2002 0:02 Analyst: AR
Preparation Date: 09/06/2002 11:58 Prep By: J_L Method SW3510C

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	2.5	3.3	120	2.5	2.8	100	17	20	21	175

Qualifiers:

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B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

United Parcel Services

UPS -BBL BTS#020903-DA-1

Analysis: Volatile Organics by Modified 8260B
Method: SW8260BMOD
WorkOrder: 02090122
Lab Batch ID: R67708

Method Blank

RunID: MSDVOA2_020911A-13140 Units: ug/L
Analysis Date: 09/11/2002 20:36 Analyst: DO

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
02090122-01A	MW-1
02090122-02A	MW-3

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Gasoline Range Organics	ND	50
Methyl tert-butyl ether	ND	0.50
Toluene	ND	0.50
m&p-Xylene	ND	0.50
o-Xylene	ND	0.50
Total Xylene	ND	0.50
Surr: Toluene d-8	92.8	70-130

Laboratory Control Sample (LCS)

RunID: MSDVOA2_020911A-13140 Units: ug/L
Analysis Date: 09/11/2002 18:42 Analyst: DO

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	100	76.4	76	70	130
Ethylbenzene	100	89.3	89	70	130
Gasoline Range Organics	1150	1260	109	70	130
Methyl tert-butyl ether	50	41.7	83	70	130
Toluene	100	85.4	85	70	130
m&p-Xylene	200	191	95	70	130
o-Xylene	100	92	92	70	130
Total Xylene	300	283	94	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02090122-01
RunID: MSDVOA2_020911A-13140 Units: ug/L
Analysis Date: 09/11/2002 19:10 Analyst: DO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit

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Quality Control Report

United Parcel Services

UPS -BBL BTS#020903-DA-1

Analysis: Volatile Organics by Modified 8260B
Method: SW8260BMOD

WorkOrder: 02090122
Lab Batch ID: R67708

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 02090122-01
RunID: MSDVOA2_020911A-13140 Units: ug/L
Analysis Date: 09/11/2002 19:10 Analyst: DO

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	98.5	98.3	100	92.5	92.3	6.30	20	70	130
Ethylbenzene	ND	100	88.5	88.1	100	87.5	87.1	1.12	20	70	130
Gasoline Range Organics	1210	1400	3130	137 *	1400	3140	138 *	0.952	20	70	130
Methyl tert-butyl ether	ND	200	200	100	200	179	89.6	11.0	20	70	130
Toluene	ND	100	97.5	97.2	100	92.2	92.0	5.56	20	70	130
m&p-Xylene	ND	200	188	93.7	200	180	89.9	4.05	20	70	130
o-Xylene	0.540	100	91.4	90.9	100	88.3	87.7	3.54	20	70	130
Total Xylene	0.5000	300	279.4	92.97	300	268.3	89.27	4.061	20	70	130

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Sample Receipt Checklist

And

Chain of Custody

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	02090122	Received By:	DS
Date and Time Received:	9/5/2002 10:00:00 AM	Carrier name:	UPS
Temperature:	2	Chilled by:	Water Ice

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present	☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present	☑
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present	☑
4.	**Chain of custody present?**	Yes ☑	No ☐		
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐		
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐		
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐		
8.	**Sample containers Intact?**	Yes ☑	No ☐		
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐		
10.	**All samples received within holding time?**	Yes ☑	No ☐		
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐		
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	Not Applicable	☐
13.	**Water - pH acceptable upon receipt?**	Yes ☑	No ☐	Not Applicable	☐

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

02090122

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 020903-DA-1

CLIENT: Blasland, Bouck, & Lee, Inc.

SITE: UPS
8400 Pardee Drive
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB: SPL DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION _____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : Blasland, Bouck,& Lee, Inc.
Attn: Paul Bluestein or Hugh Devery

Fax copy of COC to Blaine Tech

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	TPH-GAS (8015)	BTEX & MTBE (8260)	TPH-D (8015)	TAME @ 8/30/02	TBA @ 8/30/02	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1	9/3/02	1210	W	8		X	X	X						
~~D.O. MW-2~~														
MW-3	9/3/02	1245				X	X	X						
~~D.O. DUP~~														
~~DUP~~ TB	9/3/02	1025	W	2		X	X				"On Hold"	"TB"		

SAMPLING COMPLETED: DATE 9/3/02 TIME

SAMPLING PERFORMED BY: David Allbaugh

RESULTS NEEDED NO LATER THAN: As contracted

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
David Allbaugh	9/4/02				
			Dawn Kelly	9/5/02	1000

SHIPPED VIA: UPS DATE SENT: 9/4/02 TIME SENT: COOLER #:

UPS
1ZE4402Y2100183032

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

United Parcel Services

Certificate of Analysis Number:

02090122

Report To:	BBL Hugh Devery 975 Cobb Place Blvd. Suite 311 Kennesaw GA 30144- ph: (770) 428-9009 fax:	Project Name:	UPS -BBL BTS#020903-DA-1
		Site:	Oakland, CA
		Site Address:	
		PO Number:	
		State:	California
		State Cert. No.:	01142CA
Fax To:		Date Reported:	9/13/02

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	02090122-01	Water	9/3/02 12:10:00 PM	9/5/02 10:00:00 AM		☐
MW-3	02090122-02	Water	9/3/02 12:45:00 PM	9/5/02 10:00:00 AM		☐
TB 8/27/02	02090122-03	Water	9/3/02 10:25:00 AM	9/5/02 10:00:00 AM		☑

9/13/02

Joni Blankfield
Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-1 **Collected:** 09/03/2002 12:10 **SPL Sample ID:** 02090122-01

Site: Oakland, CA

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS				**MCL**	**CA_DRO**		**Units: mg/L**		
Diesel Range Organics	38		0.5		10		09/09/02 15:23	AR	1310849
Surr: n-Pentacosane	104	%	20-150		10		09/09/02 15:23	AR	1310849

Prep Method	Prep Date	Prep Initials
SW3510C	09/06/2002 11:58	J_L

VOLATILE ORGANICS BY MODIFIED 8260B				MCL	SW8260BMOD		Units: ug/L		
Benzene	ND		0.5		1		09/11/02 21:05	DO	1314026
Ethylbenzene	ND		0.5		1		09/11/02 21:05	DO	1314026
Gasoline Range Organics	1200		50		1		09/11/02 21:05	DO	1314026
Methyl tert-butyl ether	ND		0.5		1		09/11/02 21:05	DO	1314026
Toluene	ND		0.5		1		09/11/02 21:05	DO	1314026
m&p-Xylene	ND		0.5		1		09/11/02 21:05	DO	1314026
o-Xylene	0.5		0.5		1		09/11/02 21:05	DO	1314026
Total Xylene	0.5		0.5		1		09/11/02 21:05	DO	1314026
Surr: Toluene d-8	89.7	%	70-130		1		09/11/02 21:05	DO	1314026

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID MW-3 **Collected:** 09/03/2002 12:45 **SPL Sample ID:** 02090122-02

Site: Oakland, CA

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**CA_DRO**		**Units: mg/L**		
Diesel Range Organics	14		0.25	5		09/09/02 16:02	AR	1310850
Surr: n-Pentacosane	56.6	%	20-150	5		09/09/02 16:02	AR	1310850

Prep Method	Prep Date	Prep Initials
SW3510C	09/06/2002 11:58	J_L

VOLATILE ORGANICS BY MODIFIED 8260B			**MCL**	**SW8260BMOD**		**Units: ug/L**		
Benzene	ND		0.5	1		09/11/02 21:34	DO	1314027
Ethylbenzene	ND		0.5	1		09/11/02 21:34	DO	1314027
Gasoline Range Organics	2300		50	1		09/11/02 21:34	DO	1314027
Methyl tert-butyl ether	ND		0.5	1		09/11/02 21:34	DO	1314027
Toluene	ND		0.5	1		09/11/02 21:34	DO	1314027
m&p-Xylene	ND		0.5	1		09/11/02 21:34	DO	1314027
o-Xylene	ND		0.5	1		09/11/02 21:34	DO	1314027
Total Xylene	ND		0.5	1		09/11/02 21:34	DO	1314027
Surr: Toluene d-8	91.6	%	70-130	1		09/11/02 21:34	DO	1314027

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference