



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, California 94583
Phone: (925) 275-3801
Fax: (925) 275-3815

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"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by:

Paul Supple
Environmental Business Manager



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www.secor.com
3017 Kilgore Road, Suite 100
Rancho Cordova, CA 95670
916-861-0400 TEL
916-861-0430 FAX

Quarterly Groundwater Monitoring Progress Report Second Quarter 2007

**76 (Former BP) Service Station No.11126
1700 Powell Street
Emeryville, California 94608**

SECOR Project No.: 77BP.11126.01.0436 and 77CP.01731.04

Submitted to:

Mr. Steven Plunkett
Alameda County Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Submitted by:

SECOR International Incorporated
3017 Kilgore Road, Suite 100
Rancho Cordova, California 95670
916-861-0400

Prepared on behalf of:

Atlantic Richfield Company, a BP affiliated company
Mr. Paul Supple
Environmental Business Manager
P.O. Box 1257
San Ramon, California 94583

And

ConocoPhillips
Ms. Shelby Lathrop
76 Broadway
Sacramento, California 95818

July 20, 2007

DATE: July 20, 2007

**Atlantic Richfield Company, a BP affiliated company
and
ConocoPhillips**

QUARTERLY REPORT

Station Number:	11126
Site Address:	1700 Powell Street, Emeryville, California 95608
Atlantic Richfield Company, a BP affiliated company Contact:	Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583
ConocoPhillips Contact	Ms. Shelby Lathrop ConocoPhillips 76 Broadway Sacramento, California 95818
Consulting Company:	SECOR International, Inc. – Ms. Catherine Spelis
SECOR Project No.:	77BP.11126.01.0436 and 77CP.01731.04
Primary Agency/Contact:	Mr. Steven Plunkett Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

WORK PERFORMED THIS QUARTER [Second – 2007]

1. Performed groundwater monitoring and sampling of wells on June 1, 2007.
2. SECOR submitted the *Quarterly Groundwater Monitoring Progress Report – First Quarter 2007* on April 2, 2007.

WORK PROPOSED FOR NEXT QUARTER [Third – 2007]

1. Groundwater monitoring and sampling event will be performed by SECOR.
2. Submit the *Quarterly Groundwater Monitoring Progress Report – Second Quarter 2007*

DISCUSSION

The site is located on the northwest corner of Powell Street and Christie Avenue in Emeryville, California (Figure 1), and is currently utilized as a retail gasoline service station. Three single-walled, fiberglass, gasoline underground storage tanks (USTs), associated product lines, two dispenser islands, a station building, and a convenience store are present at the site. The three unleaded gasoline USTs, consisting of one 12,000-gallon UST, one 10,000-gallon UST, and one 6,000-gallon UST, were installed in 1982 (State Water Resources Control Board [SWRCB], 1992).

The properties in the vicinity of the site are a mixture of industrial and commercial developments. South of the site and across Powell Street is Powell Street Plaza, a retail commercial development with a number of groundwater monitoring wells on-site and around its perimeter. Immediately east of Powell Street Plaza and approximately 1,000 feet southeast of the site are monitoring wells installed in the immediate vicinity of Harcros Pigments, located at 4650 Shell Mound Street. The area surrounding the site was historically used for industrial purposes before being developed into a shopping center. A summary of previous investigations and site history is included as Attachment A.

<u>Current Site Information</u>	
Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, 11 monitoring wells (MW-1 through MW-11)
Is Free Product (FP) Present on Site?	No
Historic Range in Depth to Water, Q4-1993 to Q1-2007:	2.50 feet (ft) to 10.46 ft below top of casing (TOC)
Current Remediation Techniques:	Natural Attenuation

<u>Current Quarter Monitoring Data</u>	
Wells Monitored and Sampled:	MW-1 through MW-11
Sampling Date	June 1, 2007
Depth to Groundwater (DTW, ft below TOC)	3.53 ft (MW-1 and MW-9) to 9.97 ft below TOC (MW-11)
Average Change in Groundwater Elevation Since Last Event:	0.017 ft decrease
Groundwater Flow Direction and Gradient:	Southwest at 0.025 foot per foot (ft/ft)
<u>Current Quarter Analytical Data</u>	
Minimum/Maximum Gasoline Range Organics (GRO) Concentrations	ND<50 micrograms per liter (µg/L) in four wells/120,000 µg/L in MW-2
Minimum/Maximum Benzene Concentrations	ND<0.50 µg/L in five wells/12,000 µg/L in MW-2
Minimum/Maximum Methyl tertiary Butyl Ether (MtBE) Concentrations	ND<0.50 µg/L in MW-11/17,000 µg/L in MW-2
Minimum/Maximum Tertiary Butyl Alcohol (TBA) Concentrations	ND<5.0 µg/L in two wells/32,000 µg/L in MW-4

MONITORING AND SAMPLING PROCEDURES

The groundwater monitoring well network at and around the site consists of 11 wells (MW-1 through MW-11). Depth to water levels are measured and groundwater samples are collected from the wells on a quarterly basis. During the second quarter 2007, groundwater samples

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were collected on June 1, 2007. Field notes from the June 1, 2007 monitoring and sampling event and SECOR's standard groundwater monitoring and sampling procedures are included as Attachment B.

GROUNDWATER SAMPLE ANALYSES

Groundwater samples were submitted to Severn Trent Laboratories (STL) for analysis of GRO, benzene, toluene, ethylbenzene, and xylenes (BTEX), fuel oxygenates (MtBE, tertiary amyl methyl ether [TAME], di-isopropyl ether [DIPE], ethyl tertiary butyl ether [EtBE], TBA, and ethanol), and lead scavengers 1,2-dichloroethane (1,2-DCA) and ethylene dibromide (EDB) by U.S. Environmental Protection Agency (EPA) Method 8260B. Additional groundwater samples were collected from well MW-3, and were submitted for analysis of diesel range organics (DRO) by EPA Method 8015B, and total oil and grease (TOG) by EPA Method 1664A. A certified laboratory analytical report and chain-of-custody documentation are included as Attachment C.

GROUNDWATER SAMPLE RESULTS AND DISTRIBUTION

During the second quarter 2007, depth to groundwater within the wells ranged from 3.53 ft below TOC in wells MW-1 and MW-9 to 9.97 ft below TOC in well MW-11. Historical depth to groundwater levels have ranged between approximately 2.50 feet and 10.46 feet below TOC. On June 1, 2007, the direction of groundwater flow beneath and in the site vicinity was toward the southwest at a hydraulic gradient of 0.025 ft/ft, which was generally consistent with the historical groundwater flow direction and gradient since 2003. Prior to 2003, the historical groundwater flow direction was reportedly variable since 2001; however, the groundwater flow patterns were most consistently toward the south and southwest. Current and historical depth to groundwater measurements, calculated groundwater elevation data, and analytical data are presented in Tables 1 and 2. Groundwater elevation data were used to construct a potentiometric surface map, which is included as Figure 1. Analytical data were used to construct GRO, benzene, MtBE, and TBA isoconcentration contour maps included as Figures 2 through 5. Current and historical groundwater gradient data are presented in Table 3 and historical groundwater flow direction is depicted in a rose diagram as Figure 6. Well construction details are presented in Table 4.

Contaminant Concentrations

Evaluation of recent and historical groundwater analytical data indicates that the highest concentrations of GRO, BTEX, MtBE, TAME, and TBA have been detected in wells located in the immediate vicinity (MW-1 and MW-9) and northwest of the USTs (MW-2). Based on the generally southwesterly groundwater flow direction reported over previous sampling events, elevated concentrations of GRO have been present downgradient in MW-5, and elevated concentrations of TBA have been detected in well MW-4.

Dissolved GRO, Benzene, and MtBE

During the second quarter 2007 monitoring and sampling event, concentrations of GRO were detected on-site in wells MW-1 (2,100 µg/L), MW-2 (120,000 µg/L), MW-4 (2,700 µg/L), MW-7 (120 µg/L), and MW-9 (6,500 µg/L) and off-site in well MW-5 (7,000 µg/L), located south of the site. Benzene was detected on-site in wells MW-1 (200 µg/L), MW-2 (12,000 µg/L), and MW-9

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(980 µg/L) and off-site in MW-5 (3.4 µg/L). MtBE was detected in each of the on-site wells with the highest concentrations detected in well MW-2 (17,000 µg/L).

Dissolved Other Fuel Oxygenates and Lead Scavengers

TBA was detected in each on-site well up to a maximum concentration of 32,000 µg/L (MW-4) and off-site in well MW-5 (40 µg/L). Tame was detected in wells MW-1 (2.2 µg/L), MW-2 (310 µg/L), MW-6 (0.77 µg/L), MW-7 (0.59 µg/L), and MW-9 (50 µg/L) during the second quarter 2007. DIPE was detected in wells MW-2 (260 µg/L) and MW-5 (32 µg/L). Ethanol, EtBE, and lead scavengers (1,2-DCA, and EDB) were not detected at or above laboratory method reporting limits (MRLs).

Dissolved DRO and TOG

Well MW-3 has historically been analyzed for DRO and TOG since 1992. Consistent with historical data, DRO was detected in well MW-3 at a concentration of 350 µg/L, while TOG was not detected at or above the laboratory MRL during the second quarter 2007 monitoring and sampling event.

PLUME STATUS

Other than MtBE and TBA, the lateral extent of impacted groundwater has been defined to the southwest by non-detectable levels of petroleum hydrocarbons and fuel oxygenates. Low to non-detectable levels of MtBE are present in wells MW-10 and MW-11. The lateral extent of dissolved GRO, BTEX, and TBA in groundwater has been delineated in the westerly direction by low to non-detectable concentrations in wells MW-3, MW-6, and MW-7. The lateral extent of affected groundwater has not been delineated north of well MW-8, and to the east and southeast of the site. The presence of dissolved DRO has not been delineated in the vicinity of well MW-3. Review of historical investigations indicates that the vertical extent of dissolved contaminants has not been investigated beyond the maximum completed depth of the wells at 17 feet below ground surface (bgs).

PURGE AND RINSATE WATER DISPOSAL

Approximately 54 gallons of groundwater generated during the second quarter 2007 was pumped into a SECOR truck-mounted water tank. The water was then transferred into 55-gallon, steel, California Department of Transportation (DOT)-approved drums pending waste characterization and transport by Belshire Environmental Services Inc. to DeMenno Kerdoon in Compton California for disposal.

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LIMITATIONS

This report was prepared in accordance with the scope of work outlined in SECOR's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Atlantic Richfield Company, a BP affiliated company and ConocoPhillips, for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to SECOR. To the extent that this report is based on information provided to SECOR by third parties, SECOR may have made efforts to verify this third party information, but SECOR cannot guarantee the completeness or accuracy of this third party information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by SECOR.

Sincerely,
SECOR International Incorporated

Prepared by:



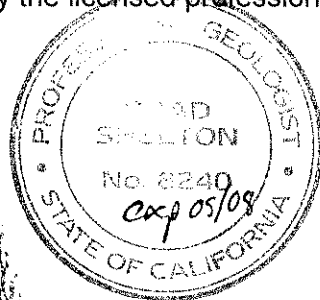
Kimber Collins
 Project Scientist

All information, conclusions, and recommendations provided by SECOR in this document regarding the site at 1700 Powell Street, Emeryville, California has been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Brad Shelton, P.G.
 Project Geologist



Date: July 20, 2007

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ATTACHMENTS

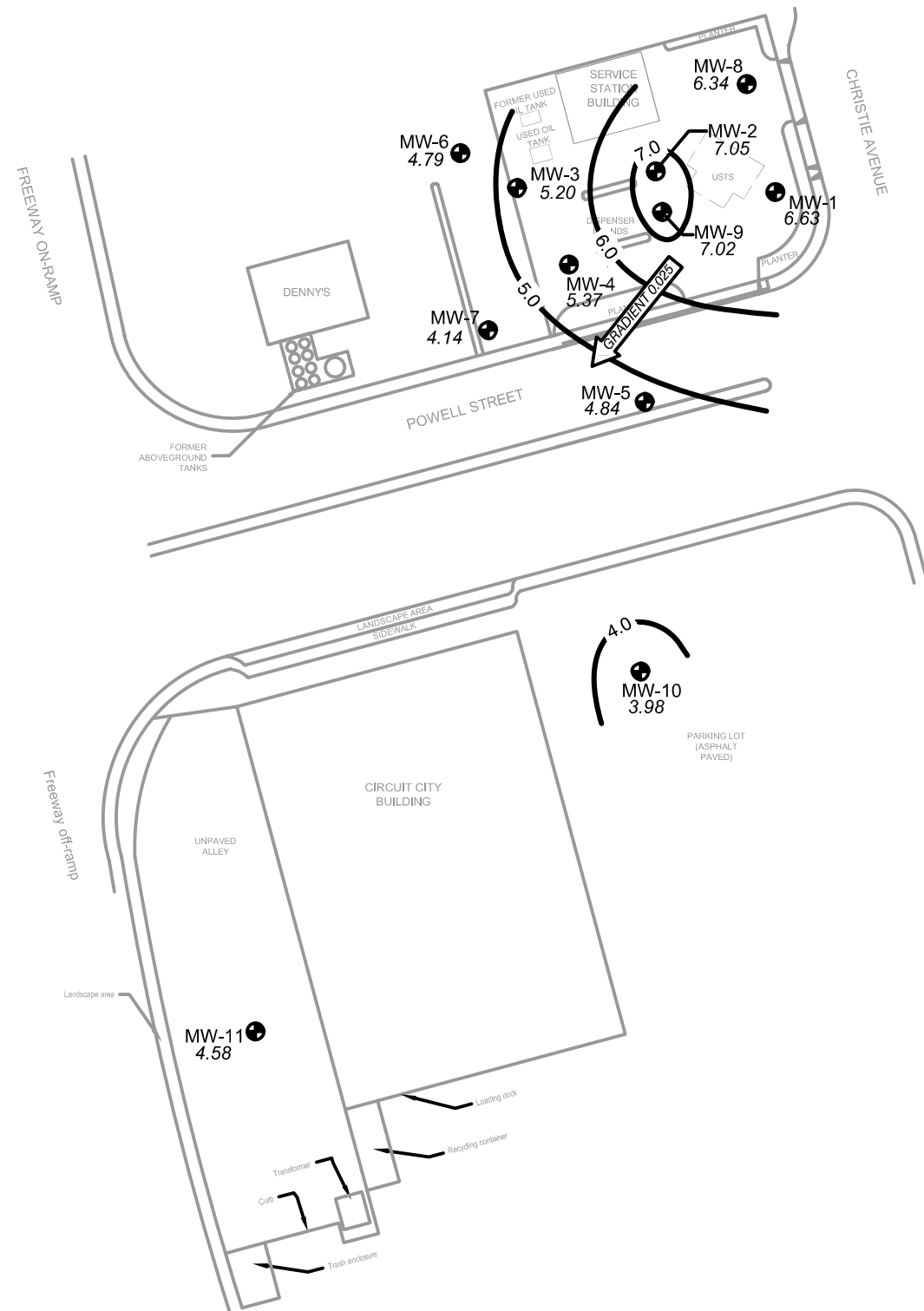
Figure 1 – Groundwater Elevation Contour Map – June 1, 2007
Figure 2 – GRO Isoconcentration Contour Map – June 1, 2007
Figure 3 – Benzene Isoconcentration Contour Map – June 1, 2007
Figure 4 – MtBE Isoconcentration Contour Map – June 1, 2007
Figure 5 – TBA Isoconcentration Contour Map – June 1, 2007
Figure 6 – Groundwater Flow Direction Rose Diagram

Table 1 – Current Groundwater Monitoring and Analytical Data
Table 2 – Historical Groundwater Monitoring and Analytical Data
Table 3 – Groundwater Flow Direction and Hydraulic Gradient Data
Table 4 – Well Construction Details

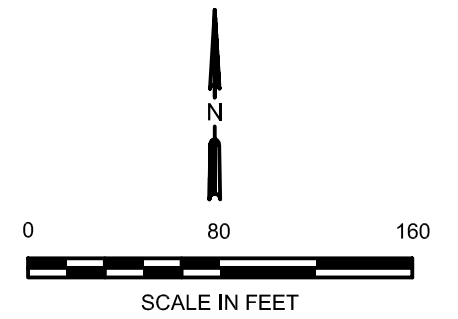
Attachment A – Previous Investigations and Site History Summary
Attachment B – Monitoring and Sampling Field Notes and SECOR's Standard Groundwater
Monitoring and Sampling Procedures
Attachment C – Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Mr. Paul Supple, Atlantic Richfield Company, a BP affiliated Company (Electronic Copy
Uploaded to Enfos)
Ms. Shelby Lathrop, ConocoPhillips (Electronic Copy Uploaded to Webextender)

FIGURES



- LEGEND:**
- MW-1 GROUNDWATER MONITORING WELL LOCATION
 - APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)
 - GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
 - 0.0 GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)



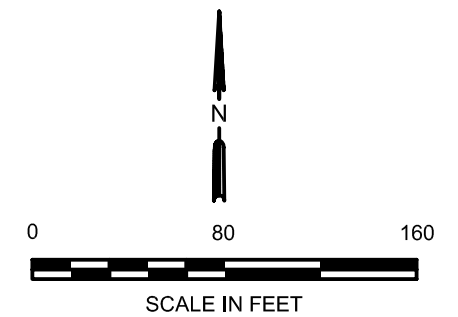
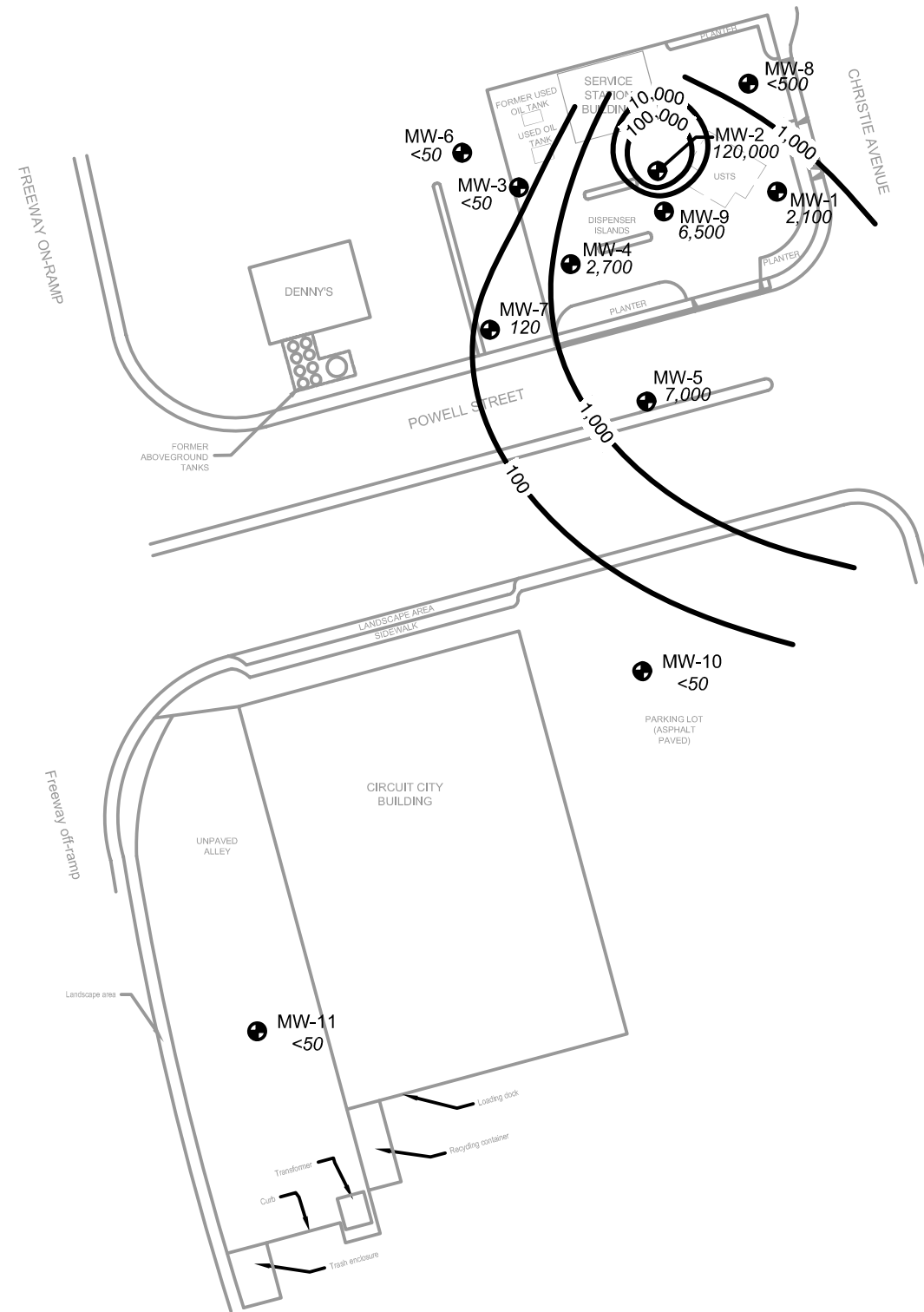
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NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.

<p>3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/ 861-0430 (FAX)</p>	FOR:	76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA		<p align="center">GROUNDWATER ELEVATION CONTOUR MAP JUNE 1, 2007</p>		FIGURE:	1		
	JOB NUMBER:	77BP.11126.01 77CP.01731.04	DRAWN BY:			M. RAMIREZ	CHECKED BY:	Kimber C.	APPROVED BY:


LEGEND:

- MW-1 ● GROUNDWATER MONITORING WELL
- 0.0 GRO ISOCONCENTRATION CONTOUR
- 4,200 GRO CONCENTRATION (µg/L)
- GRO GASOLINE RANGE ORGANICS
- µg/L MICROGRAMS PER LITER



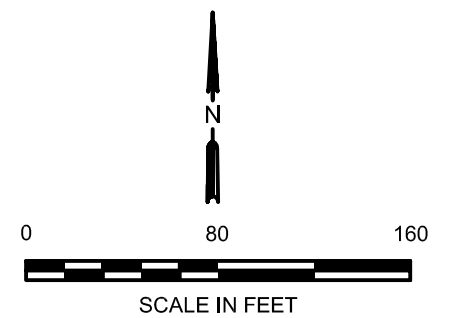
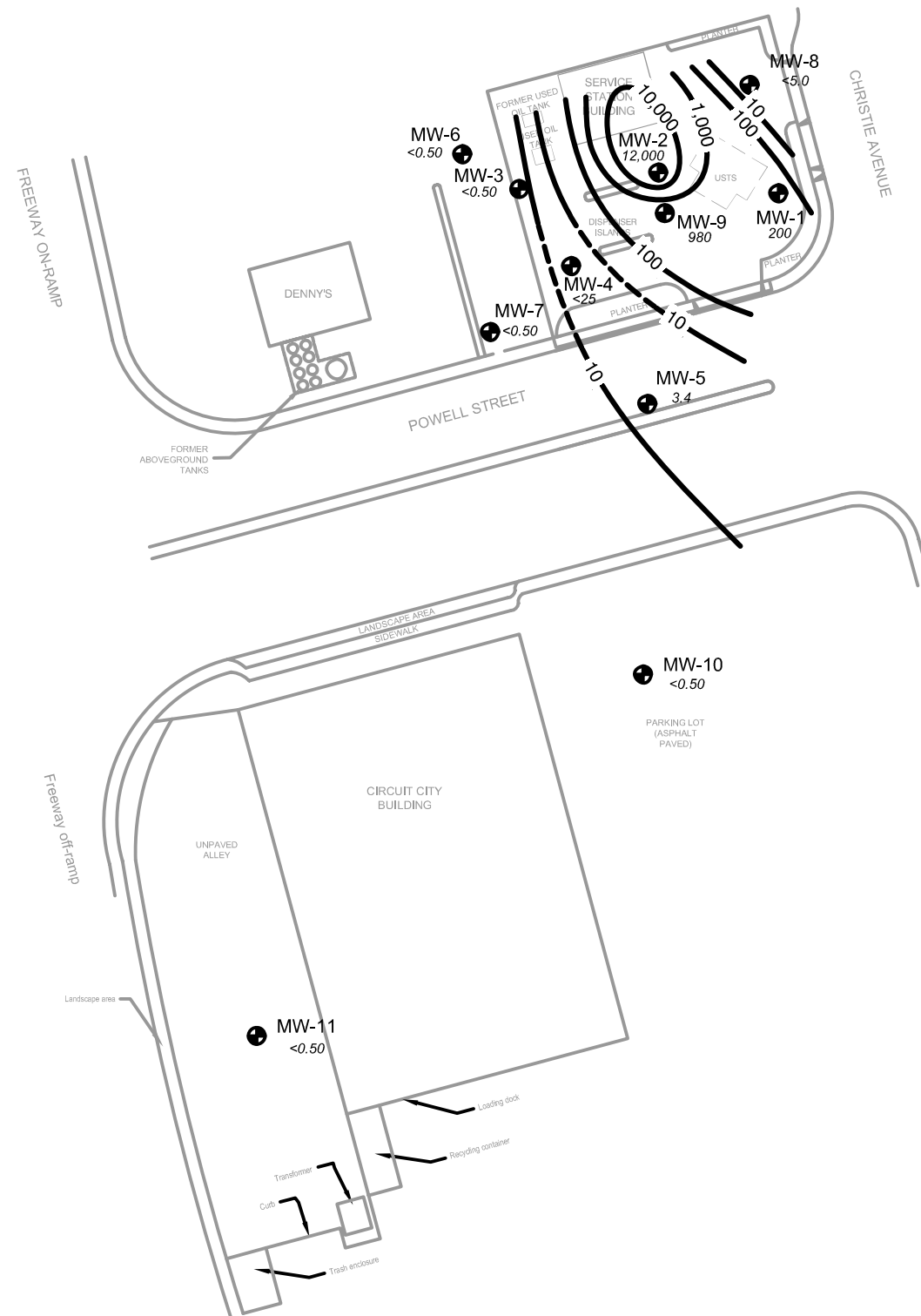
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 SECOR 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/ 861-0430 (FAX)	FOR: 76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA		GRO ISOCONCENTRATION CONTOUR MAP JUNE 1, 2007		FIGURE: 2
	JOB NUMBER: 77BP.11126.01 77CP.01731.04	DRAWN BY: M. RAMIREZ	CHECKED BY: Kimber C.	APPROVED BY: Brad S.	DATE: 7/03/07


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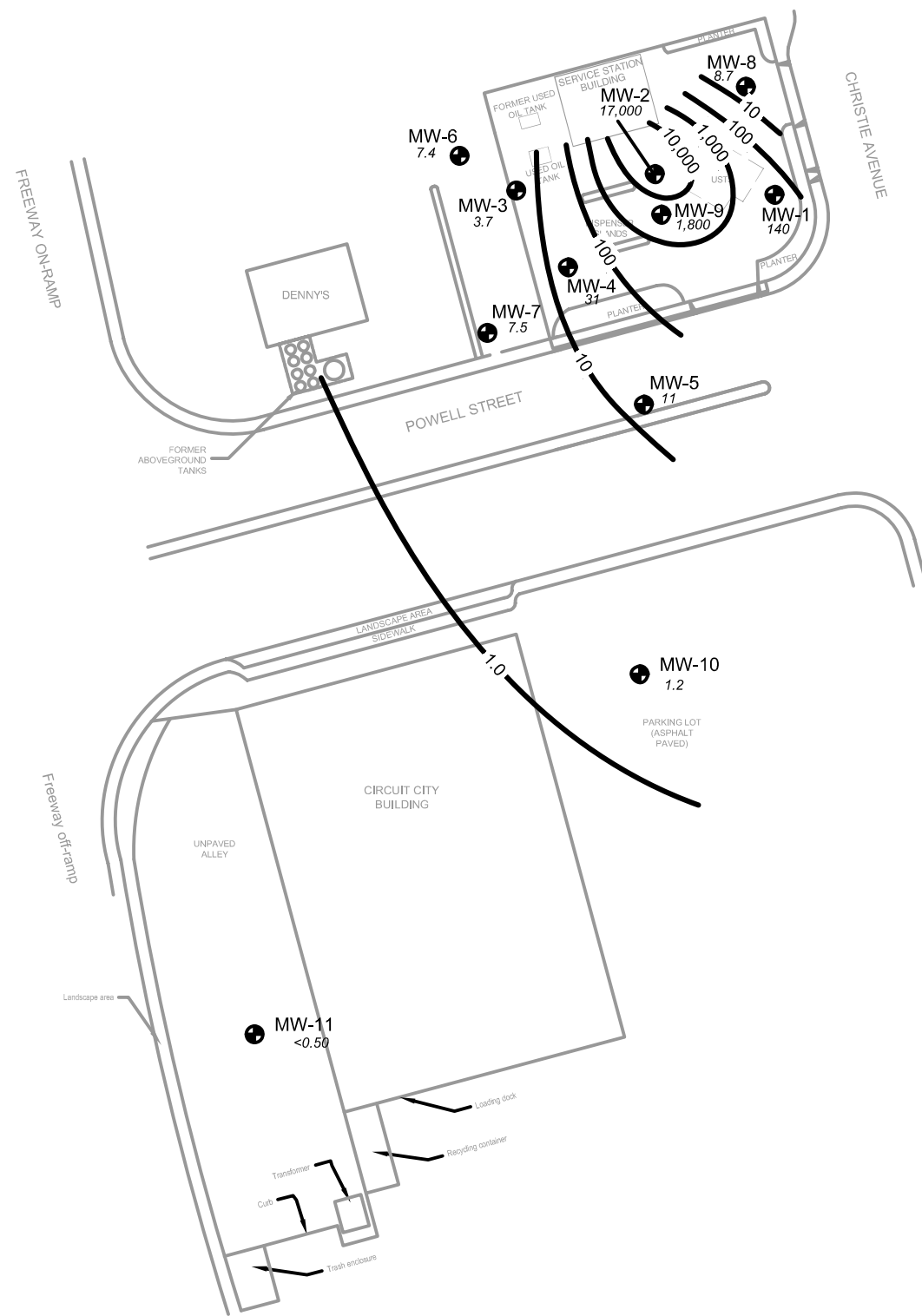
- MW-1 ● GROUNDWATER MONITORING WELL LOCATION
- 0.0 — BENZENE ISOCONCENTRATION CONTOUR
- 200 BENZENE CONCENTRATION (µg/L)
- µg/L MICROGRAMS PER LITER



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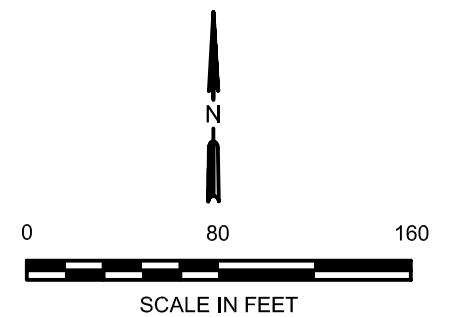
NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.

 SECOR 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/ 861-0430 (FAX)	FOR: 76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA	BENZENE ISOCONCENTRATION CONTOUR MAP JUNE 1, 2007		FIGURE: 3
	JOB NUMBER: 77BP.11126.01 77CP.01731.04	DRAWN BY: M. RAMIREZ	CHECKED BY: Kimber C.	APPROVED BY: Brad S.




LEGEND:

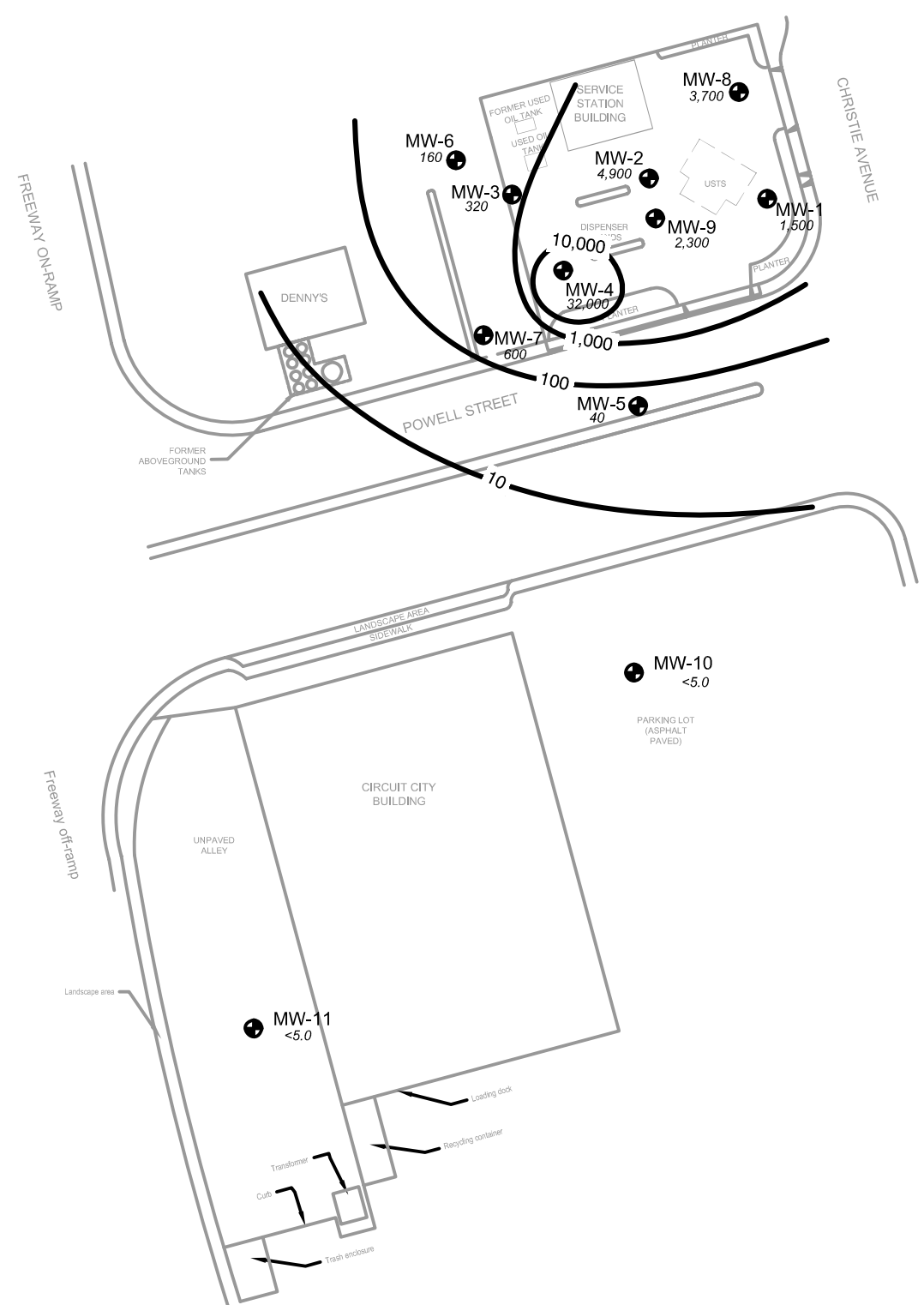
- MW-1 ● GROUNDWATER MONITORING WELL LOCATION
- 0.0 — MTBE ISOCONCENTRATION CONTOUR
- 11 MTBE CONCENTRATION (µg/L)
- MTBE METHYL TERTIARY BUTYL ETHER
- µg/L MICROGRAMS PER LITER



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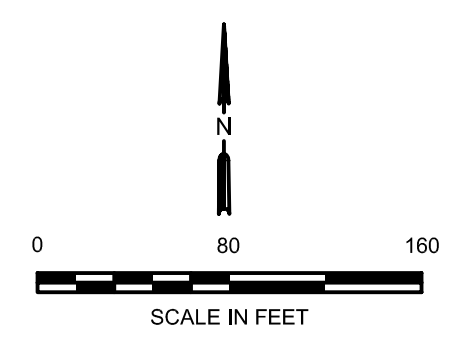
NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES.
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 3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/ 861-0430 (FAX)	FOR: 76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA	MTBE ISOCONCENTRATION CONTOUR MAP JUNE 1, 2007		FIGURE: 4
	JOB NUMBER: 77BP.11126.01 77CP.01731.04	DRAWN BY: M. RAMIREZ	CHECKED BY: Kimber C.	APPROVED BY: Brad S.



LEGEND:

- MW-1 GROUNDWATER MONITORING WELL
- 0.0 TBA ISOCONCENTRATION CONTOUR
- 160 TBA CONCENTRATION (µg/L)
- TBA TERTIARY BUTYL ALCOHOL
- µg/L MICROGRAMS PER LITER



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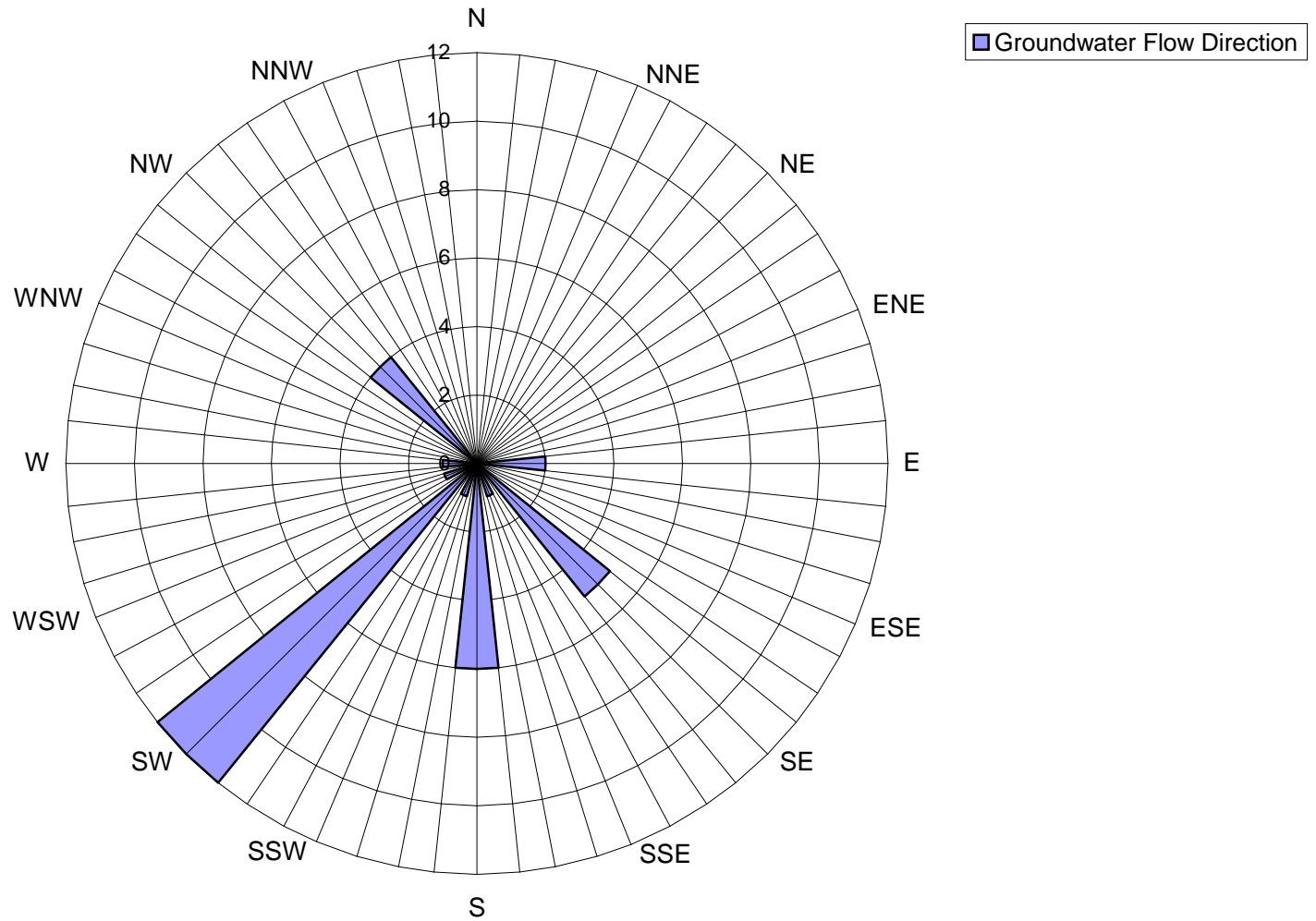
<p>3017 KILGORE ROAD, SUITE 100 RANCHO CORDOVA, CALIFORNIA PHONE: (916) 861-0400/ 861-0430 (FAX)</p>	<p>FOR: 76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA</p>	<p>TBA ISOCONCENTRATION CONTOUR MAP JUNE 1, 2007</p>		<p>FIGURE: 5</p>
	<p>JOB NUMBER: 77BP.11126.01 77CP.01731.04</p>	<p>DRAWN BY: M. RAMIREZ</p>	<p>CHECKED BY: Kimber C.</p>	<p>APPROVED BY: Brad S.</p>

FIGURE 6
Groundwater Flow Direction Rose Diagram
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, California

Legend:

Each concentric gridline represents the number of monitoring events.

Diagram includes data from the First Quarter 2001 through the Second Quarter 2007.



TABLES

TABLE 1
Current Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments
MW-1	06/01/07		10.16	3.53	6.63	2,100	-	-	200	3.4	34	59	140	1,500	<4.0	<2.0	2.2	<1,000	<2.0	<2.0	-	-	-
MW-2	06/01/07		11.39	4.34	7.05	120,000	-	-	12,000	6,400	4,200	11,000	17,000	4,900	260	<100	310	<50,000	<100	<100	-	-	-
MW-3	06/01/07		10.73	5.53	5.20	<50	350	<2.0	<0.50	<0.50	<0.50	<1.0	3.7	320	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	-
MW-4	06/01/07		10.58	5.21	5.37	2,700	-	-	<25	<25	<25	<50	31	32,000	<50	<25	<25	<13,000	<25	<25	-	-	-
MW-5	06/01/07		10.18	5.34	4.84	7,000	-	-	3.4	<2.5	<2.5	6.6	11	40	32	<2.5	<2.5	<1,300	<2.5	5.8	-	-	-
MW-6	06/01/07		11.01	6.22	4.79	<50	-	-	<0.50	<0.50	<0.50	<1.0	7.4	160	<1.0	<0.50	0.77	<250	<0.50	<0.50	-	-	-
MW-7	06/01/07		10.11	5.97	4.14	120	-	-	<0.50	<0.50	<0.50	<1.0	7.5	600	<1.0	<0.50	0.59	<250	<0.50	<0.50	-	-	-
MW-8	06/01/07		11.08	4.74	6.34	<500	-	-	<5.0	<5.0	<5.0	<10	8.7	3,700	<10	<5.0	<5.0	<2,500	<5.0	<5.0	-	-	-
MW-9	06/01/07		10.55	3.53	7.02	6,500	-	-	980	16	250	95	1,800	2,300	<25	<13	50	<6,300	<13	<13	-	-	-
MW-10	06/01/07		12.53	8.55	3.98	<50	-	-	<0.50	<0.50	<0.50	<1.0	1.2	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	-
MW-11	06/01/07		14.55	9.97	4.58	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	-
QCTB	06/01/07		-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-

Notes:

- GRO = Gasoline range organics
- DRO = Diesel range organics
- TOG = Total petroleum hydrocarbons as oil and grease
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Total xylenes
- MTBE = Methyl tert-butyl ether
- TBA = Tert-butyl alcohol
- DIPE = Di-isopropyl ether
- ETBE = Ethyl tert-butyl ether
- TAME = Tert-amyl methyl ether
- 1,2-DCA = 1,2 Dichloroethane
- EDB = 1,2-Dibromoethane
- HVOC = Halogenated volatile organic compounds
- D.O. = Dissolved Oxygen
- TOC = Top of casing (surveyed)
- DTW = Depth to Water
- GWE = Calculated groundwater elevation = TOC - Depth to Water
- ft-MSL = feet above mean sea level
- µg/L = Micrograms per liter
- mg/L = Milligrams per liter
- < = Analyte was not detected above the specified method reporting limit
- = Not measured or analyzed

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments		
MW-1	11/04/92		7.76	4.96	0.00	2.80	5,300	-	-	1,100	480	<0.50	1,500	-	-	-	-	-	-	-	-	-	-	-		
	10/12/93			5.26	0.00	2.50	3,600	-	-	970	71	100	550	6,100	-	-	-	-	-	-	-	-	-	-		
	02/15/94			4.98	0.00	2.78	17,000	-	-	4,200	510	360	1,600	5,500	-	-	-	-	-	-	-	-	-	3.9		
	05/11/94			4.55	0.00	3.21	5,500	-	-	2,900	37	56	64	700	-	-	-	-	-	-	-	-	-	-	8.0	
	08/01/94	DUP	-	-	-	-	16,000	-	-	3,600	750	510	2,800	9,800	-	-	-	-	-	-	-	-	-	-	-	
	08/01/94		7.76	5.51	0.00	2.25	15,000	-	-	3,600	740	510	2,800	9,700	-	-	-	-	-	-	-	-	-	-	2.9	
	10/18/94	DUP	-	-	-	-	16,000	-	-	1,900	64	170	950	-	-	-	-	-	-	-	-	-	-	-	-	
	10/18/94		7.76	5.11	0.00	2.65	16,000	-	-	1,800	61	160	890	16,000	-	-	-	-	-	-	-	-	-	-	2.9	
	01/13/95	DUP	-	-	-	-	590	-	-	88	0.70	<0.50	55	-	-	-	-	-	-	-	-	-	-	-	-	
	01/13/95		7.76	3.05	0.00	4.71	220	-	-	7.0	<0.50	1.0	23	-	-	-	-	-	-	-	-	-	-	-	6.6	
	04/13/95			3.84	0.00	3.92	9,300	-	-	4,000	300	200	950	-	-	-	-	-	-	-	-	-	-	-	7.7	
	07/11/95			3.60	0.00	4.16	15,000	-	-	2,200	84	<25	2,500	-	-	-	-	-	-	-	-	-	-	-	8.8	
	11/02/95			4.58	0.00	3.18	19,000	-	-	920	<100	<100	430	52,000	-	-	-	-	-	-	-	-	-	-	7.3	
	02/05/96			4.43	0.00	3.33	4,600	-	-	1,400	330	54	250	8,700	-	-	-	-	-	-	-	-	-	-	3.2	
	04/24/96			4.00	0.00	3.76	2,000	-	-	510	33	61	230	4,500	-	-	-	-	-	-	-	-	-	-	7.5	
	07/15/96			4.30	0.00	3.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/16/96	DUP	-	-	-	-	12,000	-	-	2,800	160	390	1,600	63,000	-	-	-	-	-	-	-	-	-	-	-	
	07/16/96		7.76	-	-	-	12,000	-	-	2,800	170	390	1,600	64,000	-	-	-	-	-	-	-	-	-	-	7.9	
	07/30/96			4.64	0.00	3.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/12/96			-	-	-	11,000	-	-	2,500	160	<10	1,700	440,000	-	-	-	-	-	-	-	-	-	-	7.0	
	11/04/96			5.98	0.00	1.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	53,000	-	-	1,300	43	100	350	42,000	-	-	-	-	-	-	-	-	-	-	6.6	
	05/17/97			4.65	0.00	3.11	52,000	-	-	2,000	55	300	1,200	140,000	-	-	-	-	-	-	-	-	-	-	5.7	
	08/11/97			4.90	0.00	2.86	25,000	-	-	540	6.7	<5.0	57	360,000	-	-	-	-	-	-	-	-	-	-	7.9	
	11/17/97			6.12	0.00	1.64	93,000	-	-	1,200	31	180	40	400,000	-	-	-	-	-	-	-	-	-	-	7.6	
	01/29/98			4.90	0.00	2.86	4,800	-	-	320	24	52	20	<50	-	-	-	-	-	-	-	-	-	-	6.6	
	06/22/98			4.62	0.00	3.14	63,000	-	-	180	<5.0	15	69	57,000	-	-	-	-	-	-	-	-	-	-	6.0	
	12/30/98			5.41	0.00	2.35	22,000	-	-	2,500	24	120	400	15,000	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			3.40	0.00	4.36	16,000	-	-	2,000	84	290	510	13,000	-	-	-	-	-	-	-	-	-	-	-	
	06/23/99			4.60	0.00	3.16	9,600	-	-	4,500	21	160	260	24,000	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			4.21	0.00	3.55	3,800	-	-	1,600	32	150	240	7,100	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			4.10	0.00	3.66	3,400	-	-	<2,200	17	53	130	5,500	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			5.51	0.00	2.25	6,400	-	-	1,100	45	190	330	4,900	-	-	-	-	-	-	-	-	-	-	-	
	05/26/00			4.79	0.00	2.97	110,000	-	-	700	44	140	250	320,000	-	-	-	-	-	-	-	-	-	-	-	
	09/06/00			5.19	0.00	2.57	5,600	-	-	1,000	13	57	90	19,000	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			5.73	0.00	2.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			5.82	0.00	1.94	5,500	-	-	1,200	47	160	290	3,900	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01	INA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/27/01			5.49	0.00	2.27	6,100	-	-	1,200	13	17	78	1,800	-	-	-	-	-	-	-	-	-	-	-	
	09/19/01			6.19	0.00	1.57	1,800	-	-	100	<12.5	<12.5	<37.5	1,100	-	-	-	-	-	-	-	-	-	-	-	
	12/28/01			5.27	0.00	2.49	4,000	-	-	540	12	20	65	1,100	-	-	-	-	-	-	-	-	-	-	-	
	03/12/02			5.68	0.00	2.08	3,700	-	-	490	8.4	12	27	1,000	-	-	-	-	-	-	-	-	-	-	-	
	06/13/02			5.54	0.00	2.22	1,900	-	-	260	<12.5	<12.5	<25	6,500	-	-	-	-	-	-	-	-	-	-	-	
	09/06/02			5.56	0.00	2.20	1,100	-	-	170	5.1	2.2	20	550	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments	
MW-1	12/13/02		7.76	5.45	0.00	2.31	2,700	-	-	610	10	18	67	470	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used Past holding time Well purged dry
	02/19/03			3.00	0.00	4.76	1,500	-	-	180	<5.0	<5.0	15	610	-	-	-	-	-	-	-	-	-	-	
	06/06/03			5.52	0.00	2.24	4,600	-	-	620	<25	<25	55	1,400	<1,000	<25	<25	<25	<5,000	-	-	-	-	-	
	08/07/03			5.55	0.00	2.21	2,000	-	-	290	<5.0	<5.0	15	920	560	<5.0	<5.0	12	<1,000	<5.0	<5.0	-	-	-	
	11/20/03			5.41	0.00	2.35	2,800	-	-	420	11	11	53	250	<200	<5.0	<5.0	<5.0	1,800	-	-	-	-	-	
	04/28/04			5.33	0.00	2.43	1,600	-	-	100	5.3	<5.0	8.8	200	950	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	-	-	-	
	08/26/04			4.03	0.00	3.73	1,700	-	-	220	7.2	15	35	180	320	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	12/01/04			3.93	0.00	3.83	2,100	-	-	380	8.0	34	76	170	300	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	-	-	-	
	02/02/05			3.61	0.00	4.15	1,100	-	-	150	3.0	12	14	160	6,700	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	04/25/05		10.16	3.75	0.00	6.41	930	-	-	140	3.6	5.3	11	200	5,000	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	09/30/05			3.54	0.00	6.62	4,600	-	-	1,000	15	78	150	250	1,200	13	<5.0	<5.0	<500	<5.0	<5.0	-	-	-	
	12/28/05			3.26	0.00	6.90	1,500	-	-	200	5.7	32	58	140	1,800	<10	<5.0	<5.0	<1,000	<5.0	-	-	-	-	
	03/23/06			3.40	0.00	6.76	580	-	-	42	<5.0	10	20	40	2,800	<10	<5.0	<5.0	<1,000	<5.0	<5.0	-	-	-	
	06/05/06			2.97	0.00	7.19	900	-	-	230	2.5	28	71	160	1,900	<5.0	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	09/19/06			3.67	0.00	6.49	1,600	-	-	240	3.4	11	23	180	1,000	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	-	
	12/01/06			3.64	0.00	6.52	1,400	-	-	86	4.3	7.0	19	150	930	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	-	
03/01/07			3.55	0.00	6.61	4,200	-	-	340	7.0	34	46	160	510	<4.0	<2.0	2.0	<1,000	<2.0	<2.0	-	-	-		
06/01/07			3.53	0.00	6.63	2,100	-	-	200	3.4	34	59	140	1,500	<4.0	<2.0	2.2	<1,000	<2.0	<2.0	-	-	-		
MW-2	11/04/92	DUP	-	-	-	-	12,000	-	-	3,200	980	<0.50	1,900	-	-	-	-	-	-	-	-	-	-	-	
	11/04/92		8.56	5.88	0.00	2.68	12,000	-	-	3,900	1,300	<0.50	2,300	-	-	-	-	-	-	-	-	-	-	-	
	10/12/93			6.29	0.00	2.27	4,500	-	-	3,400	180	230	940	440	-	-	-	-	-	-	-	-	-	-	
	02/15/94	DUP		5.56	0.00	3.00	2,000	-	-	430	270	28	390	130	-	-	-	-	-	-	-	-	-	4.0	
	02/15/94		-	-	-	-	1,800	-	-	290	160	14	250	-	-	-	-	-	-	-	-	-	-	-	
	05/11/94	DUP		-	-	-	15,000	-	-	5,600	1,500	470	2,000	740	-	-	-	-	-	-	-	-	-	-	
	05/11/94		8.56	5.17	0.00	3.39	14,000	-	-	3,900	1,200	440	1,900	950	-	-	-	-	-	-	-	-	-	8.9	
	08/01/94			5.43	0.00	3.13	8,200	-	-	3,000	420	230	680	1,700	-	-	-	-	-	-	-	-	-	2.6	
	10/18/94			5.71	0.00	2.85	9,000	-	-	2,000	140	150	420	2,400	-	-	-	-	-	-	-	-	-	7.2	
	01/13/95			4.67	0.00	3.89	7,900	-	-	2,200	42	<5.0	770	-	-	-	-	-	-	-	-	-	-	6.8	
	04/13/95	DUP		-	-	-	25,000	-	-	6,500	1,500	110	5,300	-	-	-	-	-	-	-	-	-	-	-	
	04/13/95		8.56	4.37	0.00	4.19	33,000	-	-	8,000	2,500	1,100	6,600	-	-	-	-	-	-	-	-	-	-	7.5	
	07/11/95	DUP		-	-	-	28,000	-	-	6,800	1,000	900	4,900	-	-	-	-	-	-	-	-	-	-	-	
	07/11/95		8.56	4.51	0.00	4.05	19,000	-	-	3,300	99	7.5	4,600	-	-	-	-	-	-	-	-	-	-	7.8	
	11/02/95	DUP		-	-	-	22,000	-	-	4,000	1,200	600	2,700	19,000	-	-	-	-	-	-	-	-	-	-	
	11/02/95		8.56	5.55	0.00	3.01	20,000	-	-	3,800	1,200	570	2,700	15,000	-	-	-	-	-	-	-	-	-	7.3	
	02/05/96	DUP		-	-	-	910	-	-	290	180	19	140	93	-	-	-	-	-	-	-	-	-	-	
	02/05/96		8.56	5.10	0.00	3.46	1,200	-	-	320	220	26	190	99	-	-	-	-	-	-	-	-	-	2.2	
	04/24/96	DUP		-	-	-	<500	-	-	70	22	<10	61	<50	-	-	-	-	-	-	-	-	-	7.0	
	04/24/96			-	-	-	<500	-	-	100	30	<10	71	<100	-	-	-	-	-	-	-	-	-	-	
07/15/96		8.56	5.40	0.00	3.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
07/16/96			-	-	-	12,000	-	-	3,300	1,400	250	2,600	1,400	-	-	-	-	-	-	-	-	-	7.8		
07/30/96			5.44	0.00	3.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11/04/96			7.06	0.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
11/05/96	DUP		-	-	-	9,200	-	-	1,300	170	<25	2,200	1,100	-	-	-	-	-	-	-	-	-	-		
11/05/96		8.56	-	-	-	7,200	-	-	1,400	230	38	2,100	1,100	-	-	-	-	-	-	-	-	-	7.4		

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76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments	
MW-3	12/28/05		10.73	4.41	0.00	6.32	<50	100	<2.0	<0.50	<0.50	<0.50	<1.0	0.66	<5.0	<1.0	<0.50	<0.50	<100	<0.50	-	-	-		
	03/23/06			4.43	0.00	6.30	<50	260	<2.0	<0.50	<0.50	<0.50	<1.0	13	130	<1.0	<0.50	0.63	<100	<0.50	<0.50	-	-		
	06/05/06			4.95	0.00	5.78	61	340	<2.0	0.69	1.4	0.85	3.6	29	510	<1.0	<0.50	1.6	<100	<0.50	<0.50	-	-		
	09/19/06			5.19	0.00	5.54	<50	330	<2.0	<0.50	<0.50	<0.50	<1.0	4.1	420	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
	12/01/06			5.37	0.00	5.36	<50	130	<2.0	<0.50	<0.50	<0.50	<1.0	2.0	250	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
	03/01/07			4.62	0.00	6.11	<50	120	<2.0	<0.50	<0.50	<0.50	<1.0	3.8	77	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
	06/01/07			5.53	0.00	5.20	<50	350	<2.0	<0.50	<0.50	<0.50	<1.0	3.7	320	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
MW-4	11/04/92		8.12	6.66	0.00	1.46	340	-	-	4.5	<0.50	4.3	<0.50	-	-	-	-	-	-	-	-	-	-		
	10/12/93			6.87	0.00	1.25	160	-	-	5.8	1.4	0.80	2.7	260	-	-	-	-	-	-	-	-	-	-	
	02/15/94			6.61	0.00	1.51	110	-	-	4.4	0.70	<0.50	2.5	120	-	-	-	-	-	-	-	-	-	4.3	
	05/11/94			5.89	0.00	2.23	120	-	-	0.50	0.80	<0.50	<0.50	140	-	-	-	-	-	-	-	-	-	9.3	
	08/01/94			6.87	0.00	1.25	140	-	-	0.70	2.0	5.2	15	140	-	-	-	-	-	-	-	-	-	3.3	
	10/18/94			6.62	0.00	1.50	140	-	-	3.5	<0.50	0.50	<0.50	200	-	-	-	-	-	-	-	-	-	3.0	
	01/13/95			7.27	0.00	0.85	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	7.9	
	04/13/95			6.51	0.00	1.61	73	-	-	1.2	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	9.9	
	07/11/95			6.21	0.00	1.91	82	-	-	0.57	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	7.2	
	11/02/95			6.78	0.00	1.34	71	-	-	1.4	0.96	0.99	2.8	140	-	-	-	-	-	-	-	-	-	8.6	
	02/05/96			6.41	0.00	1.71	<50	-	-	<5.0	<10	<10	<10	200	-	-	-	-	-	-	-	-	-	4.4	
	04/24/96			6.18	0.00	1.94	<250	-	-	<2.5	<5.0	<5.0	<5.0	510	-	-	-	-	-	-	-	-	-	8.3	
	07/15/96			6.63	0.00	1.49	<50	-	-	5.7	<1.0	<1.0	<1.0	550	-	-	-	-	-	-	-	-	-	7.4	
	07/30/96			6.34	0.00	1.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/04/96			8.27	0.00	-0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	460	-	-	<2.5	11	<5.0	<5.0	620	-	-	-	-	-	-	-	-	-	7.3	
	05/17/97			7.00	0.00	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/11/97			6.81	0.00	1.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97			9.19	0.00	-1.07	840	-	-	<0.50	<1.0	<1.0	<1.0	880	-	-	-	-	-	-	-	-	-	7.3	
	01/29/98			7.94	0.00	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/22/98			7.49	0.00	0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/30/98			8.21	0.00	-0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			7.70	0.00	0.42	1,200	-	-	<1.0	<1.0	<1.0	<1.0	2,000	-	-	-	-	-	-	-	-	-	-	
	06/23/99			8.81	0.00	-0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			8.32	0.00	-0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			8.21	0.00	-0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			6.74	0.00	1.38	910	-	-	<0.50	<0.50	0.54	1.7	3,800	-	-	-	-	-	-	-	-	-	-	
	05/26/00			5.13	0.00	2.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
09/15/00			8.20	0.00	-0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
12/11/00			8.31	0.00	-0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
03/29/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
06/27/01			7.57	0.00	0.55	2,800	-	-	19	<2.5	<2.5	<7.5	4,200	-	-	-	-	-	-	-	-	-	-		
09/19/01			7.87	0.00	0.25	2,500	-	-	<5.0	<5.0	<5.0	<15	3,300	-	-	-	-	-	-	-	-	-	-		
12/28/01			7.80	0.00	0.32	4,400	-	-	<5.0	<5.0	<5.0	<10	5,300	-	-	-	-	-	-	-	-	-	-		
03/12/02			4.53	0.00	3.59	6,400	-	-	72	<5.0	<5.0	<10	8,400	-	-	-	-	-	-	-	-	-	-		
06/13/02			6.21	0.00	1.91	1,800	-	-	7.5	<5.0	5.0	13	6,900	-	-	-	-	-	-	-	-	-	-		
09/06/02			7.78	0.00	0.34	<2000	-	-	<20	<20	<20	<20	9,600	-	-	-	-	-	-	-	-	-	-		

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments	
MW-6	07/30/96		8.52	6.44	0.00	2.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/04/96			8.05	0.00	0.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	7.3
	05/17/97			6.75	0.00	1.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/11/97			6.48	0.00	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97			9.27	0.00	-0.75	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	7.7
	01/29/98			7.98	0.00	0.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/22/98			7.68	0.00	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/30/98			6.98	0.00	1.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			5.90	0.00	2.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/23/99			6.93	0.00	1.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			6.45	0.00	2.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			6.33	0.00	2.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			5.15	0.00	3.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/26/00			5.72	0.00	2.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			6.02	0.00	2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			6.20	0.00	2.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01			5.34	0.00	3.18	750	-	-	-	<2.5	2.9	<2.5	12	820	-	-	-	-	-	-	-	-	-	
	06/27/01			6.00	0.00	2.52	760	-	-	-	33	<2.5	<2.5	<7.5	970	-	-	-	-	-	-	-	-	-	
	09/19/01			6.22	0.00	2.30	<500	-	-	-	<5.0	<5.0	<5.0	<15	880	-	-	-	-	-	-	-	-	-	
	12/28/01	NS		4.71	0.00	3.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/12/02			4.96	0.00	3.56	<500	-	-	-	<5.0	<5.0	<5.0	<10	240	-	-	-	-	-	-	-	-	-	
	06/13/02			5.78	0.00	2.74	<250	-	-	-	<2.5	<2.5	<2.5	<5.0	410	-	-	-	-	-	-	-	-	-	
	09/06/02			6.14	0.00	2.38	130	-	-	-	<0.50	<0.50	<0.50	<0.50	240	-	-	-	-	-	-	-	-	-	
	12/13/02			6.05	0.00	2.47	140	-	-	-	<1.0	<1.0	<1.0	<1.0	200	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			5.40	0.00	3.12	<500	-	-	-	<5.0	<5.0	<5.0	<5.0	150	-	-	-	-	-	-	-	-	-	
	06/06/03			5.54	0.00	2.98	1,100	-	-	-	<5.0	<5.0	<5.0	<5.0	140	<200	<5.0	<5.0	21	<1,000	-	-	-	-	
	08/07/03			5.94	0.00	2.58	<500	-	-	-	<5.0	<5.0	<5.0	<5.0	160	<200	<5.0	<5.0	20	<1,000	<5.0	<5.0	-	-	
	11/20/03			5.85	0.00	2.67	95	-	-	-	<0.50	<0.50	<0.50	<0.50	74	<20	<0.50	<0.50	12	<100	-	-	-	-	
	04/28/04			5.45	0.00	3.07	<250	-	-	-	<2.5	<2.5	<2.5	<2.5	120	<100	<2.5	<2.5	12	<500	<2.5	<2.5	-	-	
	08/26/04			6.06	0.00	2.46	<250	-	-	-	<2.5	<2.5	<2.5	<2.5	110	<100	<2.5	<2.5	12	<500	<2.5	<2.5	-	-	
	12/01/04			6.19	0.00	2.33	<250	-	-	-	<2.5	<2.5	<2.5	<2.5	86	<100	<2.5	<2.5	11	<500	<2.5	<2.5	-	-	
	02/02/05			5.20	0.00	3.32	55	-	-	-	<0.50	<0.50	<0.50	<0.50	41	32	<0.50	<0.50	6.2	<100	<0.50	<0.50	-	-	
	04/25/05			11.01	5.22	0.00	5.79	64	-	-	<0.50	<0.50	<0.50	<0.50	50	45	<0.50	<0.50	6.0	<100	<0.50	<0.50	-	-	
	09/30/05			5.93	0.00	5.08	200 N	-	-	-	<2.0	<2.0	<2.0	<4	51	280	<2.0	<2.0	4.4	<200	<2.0	<2.0	-	-	
12/28/05			5.49	0.00	5.52	<50	-	-	-	<0.50	<0.50	<0.50	<1.0	16	160	<1.0	<0.50	2.0	<100	<0.50	-	-	-		
03/23/06			4.59	0.00	6.42	<50	-	-	-	<0.50	<0.50	<0.50	<1.0	5.6	35	<1.0	<0.50	0.91	<100	<0.50	<0.50	-	-		
06/05/06			5.38	0.00	5.63	<50	-	-	-	<0.50	0.54	<0.50	<1.0	14	110	<1.0	<0.50	1.5	<100	<0.50	<0.50	-	-		
09/19/06			5.93	0.00	5.08	<50	-	-	-	<0.50	<0.50	<0.50	<1.0	8.8	190	<1.0	<0.50	1.4	<250	<0.50	<0.50	-	-		
12/01/06			6.28	0.00	4.73	<50	-	-	-	<0.50	<0.50	<0.50	<1.0	5.9	98	<1.0	<0.50	0.94	<250	<0.50	<0.50	-	-		
03/01/07			5.72	0.00	5.29	<50	-	-	-	<0.50	<0.50	<0.50	<1.0	6.0	96	<1.0	<0.50	0.68	<250	<0.50	<0.50	-	-		
06/01/07				6.22	0.00	4.79	<50	-	-	<0.50	<0.50	<0.50	<1.0	7.4	160	<1.0	<0.50	0.77	<250	<0.50	<0.50	-	-		

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments	
MW-7	10/12/93		7.61	6.14	0.00	1.47	<50	-	-	<0.50	<0.50	<0.50	0.70	<5.0	-	-	-	-	-	-	-	-	-	-	
	02/15/94			5.88	0.00	1.73	78	-	-	<0.50	<0.50	<0.50	0.60	<5.0	-	-	-	-	-	-	-	-	-	4.0	
	05/11/94			5.76	0.00	1.85	70	-	-	<0.50	<0.50	<0.50	0.90	12	-	-	-	-	-	-	-	-	-	9.1	
	08/01/94			5.97	0.00	1.64	77	-	-	<0.50	<0.50	<0.50	0.50	180	-	-	-	-	-	-	-	-	-	2.5	
	10/18/94			6.24	0.00	1.37	<50	-	-	<0.50	<0.50	<0.50	<0.50	52	-	-	-	-	-	-	-	-	-	6.3	
	01/13/95			5.39	0.00	2.22	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	8.2	
	04/13/95			5.17	0.00	2.44	63	-	-	<0.50	<0.50	<0.50	1.4	-	-	-	-	-	-	-	-	-	-	8.4	
	07/11/95			5.25	0.00	2.36	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	7.9	
	11/02/95			6.19	0.00	1.42	<50	-	-	<0.50	<0.50	<0.50	<1.0	55	-	-	-	-	-	-	-	-	-	8.0	
	02/05/96			5.69	0.00	1.92	<50	-	-	<0.50	<1.0	<1.0	<1.0	40	-	-	-	-	-	-	-	-	-	1.9	
	04/24/96			5.59	0.00	2.02	<250	-	-	<2.5	<5.0	<5.0	<5.0	53	-	-	-	-	-	-	-	-	-	8.2	
	07/15/96			6.07	0.00	1.54	<250	-	-	<2.5	<5.0	<5.0	<5.0	<50	-	-	-	-	-	-	-	-	-	7.8	
	07/30/96			6.04	0.00	1.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/04/96			7.76	0.00	-0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	7.8	
	05/17/97			6.42	0.00	1.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/11/97			6.06	0.00	1.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97			9.07	0.00	-1.46	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	7.1	
	01/29/98			7.44	0.00	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/22/98			7.39	0.00	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/30/98			5.51	0.00	2.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			5.57	0.00	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/23/99			6.69	0.00	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			6.23	0.00	1.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			6.08	0.00	1.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			4.88	0.00	2.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/26/00			5.42	0.00	2.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			5.79	0.00	1.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			5.93	0.00	1.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01			5.24	0.00	2.37	600	-	-	<2.5	<2.5	<2.5	<7.5	640	-	-	-	-	-	-	-	-	-	-	
	06/27/01			5.69	0.00	1.92	590	-	-	<2.5	<2.5	<2.5	<7.5	740	-	-	-	-	-	-	-	-	-	-	
	09/19/01			5.89	0.00	1.72	560	-	-	<5.0	<5.0	<5.0	<15	1,200	-	-	-	-	-	-	-	-	-	-	
	12/28/01			4.53	0.00	3.08	910	-	-	23	<2.5	<2.5	<5.0	860	-	-	-	-	-	-	-	-	-	-	
	03/12/02			4.71	0.00	2.90	620	-	-	<2.5	<2.5	<2.5	<5.0	680	-	-	-	-	-	-	-	-	-	-	
	06/13/02			5.21	0.00	2.40	860	-	-	<2.5	<2.5	<2.5	<5.0	1,500	-	-	-	-	-	-	-	-	-	-	
	09/06/02			5.77	0.00	1.84	350	-	-	<2.5	<2.5	<2.5	<2.5	690	-	-	-	-	-	-	-	-	-	-	
	12/13/02			5.65	0.00	1.96	1,300	-	-	<10	<10	<10	<10	1,800	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			5.07	0.00	2.54	1,700	-	-	<10	<10	<10	<10	1,600	-	-	-	-	-	-	-	-	-	-	
	06/06/03			5.27	0.00	2.34	1,000	-	-	<5.0	<5.0	<5.0	<5.0	510	<200	<5.0	<5.0	41	<1,000	-	-	-	-	-	
	08/07/03			5.52	0.00	2.09	510	-	-	<5.0	<5.0	<5.0	<5.0	520	<200	<5.0	<5.0	43	<1,000	<5.0	<5.0	-	-	-	
	11/20/03			5.79	0.00	1.82	330	-	-	<2.5	<2.5	<2.5	<2.5	270	1,300	<2.5	<2.5	8.9	<500	-	-	-	-	-	
	04/28/04			5.20	0.00	2.41	<250	-	-	<2.5	<2.5	<2.5	<2.5	71	880	<2.5	<2.5	3.5	<500	<2.5	<2.5	-	-	-	
	08/26/04			5.65	0.00	1.96	450	-	-	<2.5	<2.5	<2.5	2.8	150	4,800	<2.5	<2.5	7.8	<500	<0.50	<0.50	-	-	-	
	12/01/04			5.79	0.00	1.82	100	-	-	<1.0	<1.0	<1.0	<1.0	25	1,400	<1.0	<1.0	1.1	<200	<1.0	<1.0	-	-	-	

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments	
MW-7	02/02/05		7.61	4.92	0.00	2.69	81	-	-	<0.50	<0.50	<0.50	<0.50	31	830	<0.50	<0.50	1.8	<100	<0.50	<0.50	-	-		
	04/25/05		10.11	4.88	0.00	5.23	67	-	-	<0.50	<0.50	<0.50	0.64	41	520	<0.50	<0.50	2.1	<100	<0.50	<0.50	-	-		
	09/30/05			5.62	0.00	4.49	58 N	-	-	<0.50	<0.50	<0.50	<1.0	18	450	<0.50	<0.50	1.5	<50	<0.50	<0.50	-	-		
	12/28/05			4.93	0.00	5.18	<500	-	-	<5.0	<5.0	<5.0	<10	7.4	1,600	<10	<5.0	<5.0	<1,000	<5.0	-	-	-		
	03/23/06			4.63	0.00	5.48	71	-	-	<0.50	<0.50	<0.50	<1.0	25	340	<1.0	<0.50	1.7	<100	<0.50	<0.50	-	-		
	06/05/06			5.08	0.00	5.03	57	-	-	<0.50	<0.50	<0.50	<1.0	14	200	<1.0	<0.50	1.2	<100	<0.50	<0.50	-	-		
	09/19/06			5.60	0.00	4.51	<50	-	-	<0.50	<0.50	<0.50	<1.0	14	280	<1.0	<0.50	1.6	<250	<0.50	<0.50	-	-		
	12/01/06			6.00	0.00	4.11	<250	-	-	<2.5	<2.5	<2.5	<5.0	6.7	1,400	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-		
	03/01/07			5.69	0.00	4.42	<250	-	-	<2.5	<2.5	<2.5	<5.0	4.0	1,000	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-		
	06/01/07			5.97	0.00	4.14	120	-	-	<0.50	<0.50	<0.50	<1.0	7.5	600	<1.0	<0.50	0.59	<250	<0.50	<0.50	-	-		
MW-8	10/12/93		8.60	5.86	0.00	2.74	<50	-	-	<0.50	<0.50	<0.50	<0.50	11	-	-	-	-	-	-	-	-	-	-	
	02/15/94			5.50	0.00	3.10	380	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	-	-	-	-	-	-	3.3	
	05/11/94			5.09	0.00	3.51	330	-	-	<0.50	1.2	<0.50	1.9	<5.0	-	-	-	-	-	-	-	-	-	8.5	
	08/01/94			5.20	0.00	3.40	260	-	-	<0.50	1.2	2.9	5.8	<5.0	-	-	-	-	-	-	-	-	-	-	2.3
	10/18/94			5.70	0.00	2.90	82	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	-	-	-	-	-	-	-	6.4
	01/13/95			4.96	0.00	3.64	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	-	6.9
	04/13/95			5.40	0.00	3.20	270	-	-	<0.50	<0.50	<0.50	4.4	-	-	-	-	-	-	-	-	-	-	-	8.4
	07/11/95			6.01	0.00	2.59	320	-	-	<0.50	<0.50	<0.50	3.5	-	-	-	-	-	-	-	-	-	-	-	8.0
	11/02/95			6.81	0.00	1.79	100	-	-	<0.50	<0.50	<0.50	<1.0	<5.0	-	-	-	-	-	-	-	-	-	-	8.7
	02/05/96			6.12	0.00	2.48	<50	-	-	<5.0	<10	<10	<10	<100	-	-	-	-	-	-	-	-	-	-	1.5
	04/24/96			6.23	0.00	2.37	<50	-	-	<5.0	<10	<10	<10	<100	-	-	-	-	-	-	-	-	-	-	8.7
	07/15/96			6.70	0.00	1.90	<250	-	-	<2.5	<5.0	<5.0	<5.0	<50	-	-	-	-	-	-	-	-	-	-	8.4
	07/30/96			6.64	0.00	1.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/04/96			8.36	0.00	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/05/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	7.2
	05/17/97			7.03	0.00	1.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/11/97			6.05	0.00	2.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/97			9.14	0.00	-0.54	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	7.7
	01/29/98			7.90	0.00	0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/22/98			7.72	0.00	0.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/30/98	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/09/99	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/23/99			4.70	0.00	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09/23/99			4.22	0.00	4.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/28/99			4.12	0.00	4.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/22/00			4.71	0.00	3.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	05/26/00			4.98	0.00	3.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	09/15/00			4.62	0.00	3.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/11/00			4.77	0.00	3.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	03/29/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/27/01			5.11	0.00	3.49	570	-	-	<2.5	<2.5	2.6	<7.5	3.4	-	-	-	-	-	-	-	-	-	-	-
	09/19/01			5.00	0.00	3.60	<500	-	-	<5.0	<5.0	<5.0	<15	<5.0	-	-	-	-	-	-	-	-	-	-	-
12/28/01			4.15	0.00	4.45	440	-	-	<0.50	<0.50	0.98	<1.0	6.3	-	-	-	-	-	-	-	-	-	-	-	
03/12/02			4.35	0.00	4.25	330	-	-	<2.5	<2.5	<2.5	<5.0	8.7	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Well No.	Date	Notes	TOC (ft-MSL)	DTW (feet)	SPH (feet)	GWE (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG (mg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	HVOC (µg/L)	D.O. (mg/L)	Comments	
MW-11	04/25/05		14.55	9.29	0.00	5.26	<50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	-	-		
	09/30/05			10.23	0.00	4.32	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	<0.50	<50	<0.50	<0.50	-	-		
	12/28/05			9.09	0.00	5.46	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<100	<0.50	-	-	-		
	03/23/06			8.75	0.00	5.80	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<100	<0.50	<0.50	-	-		
	06/05/06			9.47	0.00	5.08	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<100	<0.50	<0.50	-	-		
	09/19/06			10.16	0.00	4.39	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
	12/01/06			10.46	0.00	4.09	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
	03/01/07			9.62	0.00	4.93	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
	06/01/07			9.97	0.00	4.58	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-		
QC-2	11/05/92		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	10/12/93			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	02/15/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	05/11/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	08/01/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	10/18/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	01/13/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	-	
	04/13/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	-	
	07/11/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	-	
	11/02/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<5.0	-	-	-	-	-	-	-	-	-	-	
	02/05/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	
	04/24/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	
	07/16/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	-	
QCTB	09/30/05		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	12/28/05			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	03/23/06			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	06/05/06			-	-	-	50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	09/19/06			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	12/01/06			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	03/01/07			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	
	06/01/07			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Historical Groundwater Monitoring and Analytical Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, CA

Notes:

P/NP = Purged/Not Purged

TOC = Top of casing (surveyed)

DTW = Depth to Water

GWE = Calculated groundwater elevation = TOC - Depth to Water + 0.75*(Measured SPH Thickness); assuming a specific gravity of 0.75 for SPH

SPH = Separate phase hydrocarbons

GRO = Gasoline range organics

DRO = Diesel range organics

TOG = Total petroleum hydrocarbons as oil and grease

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

MTBE = Methyl tert-butyl ether

TBA = Tert-butyl alcohol

DIPE = Di-isopropyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tert-amyl methyl ether

1,2-DCA = 1,2 Dichloroethane

EDB = 1,2-Dibromoethane

HVOC = Halogenated volatile organic compounds

D.O. = Dissolved Oxygen

ft-MSL = feet above mean sea level

µg/L = Micrograms per liter

mg/L = Milligrams per liter

< = Analyte was not detected above the specified method reporting limit

- = Not measured or analyzed

N = Identity of contaminant uncertain (hydrocarbon pattern atypical of indicated analyte); see lab report

ND = Not detected (historical data; reporting limit not reported)

DUP = Duplicate sample

INA = Well inaccessible; not sampled

NS = Well not sampled

Beginning in the first quarter 2003, TPHg and VOCs analyzed by EPA Method 8260B.

TABLE 3
Groundwater Flow Direction and Hydraulic Gradient Data
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, California

Monitoring Date	Groundwater Flow Direction	Groundwater Gradient (foot per foot)
03/29/01	South	0.020
06/27/01	South	0.020
09/19/01	South	0.020
12/28/01	South	0.035
03/12/02	South-Southeast	0.018
06/13/02	Northwest to Southeast	0.007
09/06/02	South	0.010
12/13/02	Southeast	0.020
02/19/03	West-Southwest	0.025
06/06/03	East-Southwest	0.018 - 0.041
08/07/03	East-Southwest	0.019 - 0.038
11/20/03	Northwest to Southeast	0.014 - 0.04
02/05/04	Northwest to Southeast	0.020
04/28/04	West-Southwest	0.023 - 0.025
08/26/04	South-Southwest	0.036
12/01/04	Northwest to Southeast	0.020
02/02/05	South	0.020
04/25/05	Southwest	0.020
09/30/05	Southwest	0.081
12/28/05	Southwest	0.081
03/23/06	Southwest	0.040
06/05/06	Southwest	0.020
09/19/06	Southwest	0.013
12/01/06	Southwest	0.030
03/01/07	Southwest	0.010
06/01/07	Southwest	0.025
	Average:	0.027

Notes:

Number of monitoring events: 26

- The groundwater was flowing in two directions (Northwest and Southeast) during the second quarter of 2002, the fourth quarter of 2003, and the first and fourth quarters of 2004.

- Data included in this table were found from current and historical documents.

TABLE 4
Well Construction Details
76 (Former BP) Service Station No. 11126
1700 Powell Street, Emeryville, California

Well I.D.	Construction Date	Elevation (TOC feet above MSL)	Boring Depth (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Casing Material	Slot Size (inches)	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)	Bentonite Seal Interval (feet bgs)	Cement Seal Interval (feet bgs)	Comments
Groundwater Monitoring Wells												
MW-1	10/20/92	7.78	12	8	2	PVC	0.01	4-12	3.5-12	3-3.5	1-3	
MW-2	10/20/92	8.58	12	8	2	PVC	0.01	5-12	4-12	3-4	1-3	
MW-3	10/20/92	8.25	12	8	2	PVC	0.01	5-12	4-12	3-4	1-3	
MW-4	10/20/92	8.12	12	8	2	PVC	0.01	5-12	4-12	3-4	0.5-3	
MW-5	09/02/93	7.69	13.5	8	2	PVC	0.01	3.5-13.5	3-13.5	2.5-3	0.5-2.5	
MW-6	09/03/93	8.52	14	8	2	PVC	0.01	4-14	3-14	2.5-3	0.5-2.5	
MW-7	09/03/93	7.61	14	8	2	PVC	0.01	4-14	3-14	2.5-3	0.5-2.5	
MW-8	09/03/93	8.8	14	8	2	PVC	0.01	4-14	3-14	2.5-3	0.5-2.5	
MW-9	09/03/93	8.08	14	10	4	PVC	0.01	4-14	3-14	2.5-3	0.5-2.5	
MW-10	04/15/05	12.53	20	8	2	PVC	0.01	7-17	6-17.5	5-6	0.5-5	Backfilled with bentonite at 17-20'
MW-11	04/15/05	14.55	24	8	2	PVC	0.01	7-17	6-17	5-6	0.5-5	Backfilled with bentonite at 17-24'

Notes:

TOC = top of casing

MSL = mean sea level

bgs = below ground surface

Elevations are in US survey feet, Vertical Datum is NGVD29

**ATTACHMENT A
PREVIOUS INVESTIGATIONS
AND SITE HISTORY SUMMARY**

Quarterly Groundwater Monitoring Progress Report – Second Quarter 2007
76 (Former BP) Service Station No.11126
1700 Powell Street
Emeryville, California

PREVIOUS INVESTIGATIONS AND SITE HISTORY SUMMARY

A soil gas survey was conducted on April 10, 1989 by Target Environmental Services, Inc. (TES) on behalf of Mobil Oil Corporation (Mobil) prior to the transfer of ownership of the property to BP. Soil gas samples were collected from 19 sampling points at an approximate depth of four feet below ground surface (bgs) across the site. Results indicated that gasoline may have entered the site subsurface at the pump islands, UST complex, or along the product supply lines. Total volatile hydrocarbons were detected in soil vapor using a flame-ionization detector (FID) at concentrations up to 932,000 micrograms per Liter ($\mu\text{g/L}$), with the highest detections detected in the vicinity of the pump islands and east of the USTs (TES, *Soil Gas Survey*, April 1989).

On April 24, 1989, one 550-gallon waste oil UST was removed from the site, and was replaced with a suspected 1,000-gallon waste oil UST in a separate excavation. A soil sample collected from beneath the UST (seven feet bgs) and sidewalls (nine feet bgs, approximately six inches above groundwater) of the initial waste oil UST excavation contained total oil and grease (TOG), total petroleum hydrocarbons as diesel (TPHd), and total petroleum hydrocarbons as gasoline (TPHg) up to concentrations of 340 parts per million (ppm), 27 ppm, and 9.6 ppm, respectively. A capillary fringe soil sample (six inches above groundwater) collected on April 27, 1989 from the sidewall of the new waste oil UST excavation, located approximately 20 feet south of the former waste oil UST location, contained TOG and TPHd at respective concentrations of 10,000 ppm and 370 ppm. An *Underground Storage Tank Unauthorized Release (Leak) / Contamination Site Report* dated May 2, 1989 documenting the past occurrence of a release of unknown quantity was subsequently submitted to Alameda County Environmental Health Department (ACEHD), Hazardous Materials Division (EMCON, *Baseline Assessment Report*, December 27, 1994).

In October 1992, Alisto Engineering (Alisto) performed a preliminary site assessment to investigate the extent of petroleum hydrocarbon impacts beneath the site. Eight soil borings (B-1 through B-3, B-4A, B-4B, B-4, B-5A, and B-5) were advanced to depths ranging from four feet to 20 feet bgs. Auger refusal was encountered during the drilling of borings B-1, B-4A, B-4B, and B-5A; and borings B-2 through B-5 were converted to monitoring wells MW-1 through MW-4, respectively. Soil samples collected to a depth of 5.5 feet bgs from the borings advanced in the immediate vicinity of the USTs and dispenser islands contained TPHg and benzene at maximum concentrations of 280 ppm and 0.94 ppm, respectively. Groundwater samples collected from the wells in November 1992 contained elevated concentrations of TPHg (12,000 parts per billion [ppb]) and benzene (3,900 ppb). Groundwater from well MW-3 contained TPHd at 690 ppb. The direction of groundwater flow was established toward the southwest (Alisto, *Supplemental Site Investigation Report*, April 8, 1994).

In September 1993, Alisto supervised the installation of five additional groundwater monitoring wells (MW-5 through MW-9). Soil samples collected from approximately 4.5 feet bgs from borings MW-5 and MW-9 contained TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX) up to respective concentrations of 4,600 ppm, 76 ppm, 330 ppm, 130 ppm, and 420 ppm. The highest concentrations of petroleum hydrocarbons were found in groundwater from well MW-2; maximum concentrations of TPHg and benzene were detected at 4,500 $\mu\text{g/L}$ and

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3,400 µg/L, respectively. Well MW-9, which is located in the area of the product dispensers contained liquid phase hydrocarbons (LPH) at an initial thickness of 0.08 feet. A product recovery canister was subsequently installed to assist in the removal of LPH from beneath the site. The direction of groundwater flow was generally toward the east to southeast. Off-site sources identified in the site vicinity included former Pabco Products, a paint, roofing, and floor coverings manufacturing facility, which stored oil in aboveground storage tanks (ASTs) at the site (located on and northeast of the site); former Auto Freight Depot (southeast corner of Shellmound Road and Powell Street, approximately 450 feet east of the site); former Truck Repair Shop (approximately 480 feet east to southeast of the site), which stored diesel and gasoline in ASTs; and former Pacific Intermountain Express Truck Terminal (approximately 440 feet southeast of the site), which utilized ASTs and USTs.

In October 1994, EMCON conducted a supplementary site assessment to establish baseline subsurface conditions prior to the purchase of the site by Tosco Corporation (Tosco, now ConocoPhillips) from BP. Three soil borings (THP-1, TB-2 and THP-3, and also respectively referred to as TB-1, TB-2 and TB-3) were advanced on-site using cone penetrometer testing (CPT) equipment. Refusal was encountered in TB-2 and TPH-3 at 10 feet and 4.5 feet bgs, respectively. Soil samples from borings THP-1 and THP-3 contained TPHg and benzene up to 290 ppm and 1.6 ppm, respectively; TPHd was detected in soil from THP-1 (33 ppm); and TOG was detected in the 4.5-foot sample from THP-3 (1,800 ppm). Hydropunch groundwater samples from borings THP-1 and THP-3 contained concentrations of TPHg up to 4,600 ppb, and benzene up to 800 ppb. TOG (3,300 ppb), trans-1,2-dichloroethane (DCE, 2.4 ppb), cis-1,2-DCE (41 ppb), and 1,2-dichloroethane (1,2-DCA, 6.4 ppb) were also detected in the groundwater sample from boring THP-1. EMCON personnel returned to the site on December 5, 1994 to inspect the fuel dispensers for the presence of spill containment boxes, and for indications of leakage. No spill containment boxes were in place, and staining was observed beneath the northeast and southwest fuel dispensers. Photo-ionization detector (PID) readings collected from backfill material beneath the dispensers indicated the presence of volatile organic compounds (VOCs) ranging from 27 ppm to 1,063 ppm. Grab soil samples collected from beneath the fuel dispensers (TD-1, TD-2, TD-3 and TD-4) indicated the presence of TPHg and TPHd up to concentrations of 1,400 ppm and 4,600 ppm, respectively (EMCON, *Baseline Assessment Report*, December 27, 1994).

In February 1995, Alisto performed baildown testing at the site. Using the Aqtesolv groundwater modeling program (Geraghty and Miller, 1991), the average hydraulic conductivity (K) and transmissivity (T) were estimated at 5.97E-05 centimeters per second (cm/sec), and 1.16E-06 square meters per second, respectively. The calculated K value was consistent with the expected K values for the soil type encountered beneath the site (1×10^{-1} to 10^{-6} cm/sec), which consisted predominantly of silty clay containing interbedded layers of sand (Alisto, *Baildown Test Results*, February 10, 1995).

In April 1999, Environmental Resolutions Inc. (ERI) performed a five-day soil vapor extraction (SVE) test at the site (ERI, 1999). UST backfill wells (TP-1 and TP-2) were used for SVE, and wells MW-1, MW-2, and MW-4 were utilized as observation wells. Results of vapor samples from well TP-1 indicated a decrease in methyl tertiary butyl ether (MtBE) concentrations from an initial concentration of 4,820 µg/L to 300 µg/L during the test. TPHg concentrations also

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decreased from an initial concentration of 12,800 µg/L to 464 µg/L during the test. ERI estimated that approximately 21.5 pounds of TPHg and 16.7 pounds of MtBE were removed by SVE. SVE flow rates ranged from 88 to 98 standard cubic feet per minute (scfm) at an applied vacuum of 12 inches of mercury. No effective radius of influence was measured in native soil outside the UST backfill (ERI, *Extended Soil Vapor Extraction Test Report*, July 20, 1999).

Following the performance of the SVE test by ERI, SECOR observed the removal of one 550-gallon, fiberglass, waste oil UST, along with a clarifier and two hoists (Hoist No. 1 and Hoist No. 2) from the former service bays as part of site remodeling activities on April 28, 1999. The waste oil UST and Hoist No. 2, were removed from two separate excavations, and the clarifier and Hoist No. 1 were removed from another excavation. One soil sample (OILT-1) from the waste oil UST excavation contained TPHg (180 milligrams per kilogram [mg/kg]), benzene (0.19 mg/kg), TPHd (370 mg/kg), and total petroleum hydrocarbons as motor oil (TPHmo, 7,000 mg/kg). A grab groundwater sample collected from 7.5 feet bgs from the waste oil UST excavation contained TPHd (560 µg/L), TPHmo (710 µg/L), benzene (10 µg/L), and MtBE (2,400 µg/L). Soil samples were collected from beneath the former clarifier (four feet bgs), former Hoist No. 1 (eight feet bgs), and the former Hoist No. 2 (eight feet bgs); TPHg, TPHd, TPHmo, benzene, and lead were detected at maximum respective concentrations of 3.0 mg/kg (clarifier), 870 mg/kg (Hoist No. 1), 4,200 mg/kg (Hoist No. 1), 0.013 mg/kg (clarifier), and 22,000 mg/kg (clarifier). MtBE was not detected in soil from the excavations (SECOR, *Removal of Waste Oil UST, Hoists No. 1 and No. 2 and Clarifier Sump*, June 29, 1999).

Based on the presence of petroleum hydrocarbons in soil, the clarifier and hoist areas were over-excavated on May 7, 1999. Soil samples collected from the clarifier excavation at five feet bgs, and the hoist excavations at five feet bgs contained concentrations of TPHg up to 1,200 mg/kg (Hoist No. 1), TPHd up to 1,200 mg/kg (Hoist No. 1), TPHmo up to 5,000 mg/kg (Hoist No. 1), and lead up to 410 mg/kg (clarifier). Over-excavation confirmation soil samples were not analyzed for the presence of BTEX and other metals. A composite sample collected from the pea gravel was also analyzed for the presence of petroleum hydrocarbons; based on the relatively minor levels of TPHd and TPHmo, relatively low to non-detectable levels of BTEX, and non-detectable concentrations of MtBE, the excavated pea gravel was used as backfill for the waste oil UST excavation. Approximately 17.41 tons of soil were removed from the site as a result of the initial excavation and over-excavation activities (SECOR, *Removal of Waste Oil UST, Hoists No. 1 and No. 2 and Clarifier Sump*, June 29, 1999).

On March 28 and 30, 2001, Gettler-Ryan Incorporated (GRI) oversaw the removal and replacement of product lines, dispensers, and the station canopy. During the removal of the product lines, petroleum hydrocarbon-stained soil and odors were observed within the excavated trench. The entire length of the former product line trench was subsequently over-excavated an additional 1.5 feet to 3.5 feet bgs prior to sampling, resulting in the removal of approximately 150 cubic yards of soil from beneath the site. The former trenches were backfilled with clean, imported backfill as it was discovered that the former trenches were not suitable for re-use due to insufficient grading. An additional 100 cubic yards of soil were excavated to accommodate the new product lines. A total of 13 confirmation soil samples were collected from product line, dispenser and trench excavations by SECOR from the initial excavation and following over-excavation of soil. TPHg and TPHd were detected in the 13

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samples at concentrations up to 5,300 mg/kg and 630 mg/kg in the initial excavation soil samples, respectively. The highest concentrations of petroleum hydrocarbons were detected in a 3.5-foot soil sample from a former product line location near well MW-9. MtBE was detected in 12 of the 13 samples up to 8.4 mg/kg. A total of 400 cubic yards of soil were removed from the site, and approximately 15,000 gallons of groundwater were removed from beneath the site during the dewatering of the UST cavity (SECOR, *Removal and Replacement of Product Lines, Dispensers and Canopy*, May 4, 2001).

Between June and October 2004 in accordance with their July 11, 2003 *Interim Remedial Action and Off-Site Assessment Workplan* and the April 20, 2004 *Modifications to Interim Remedial Action and Offsite Assessment Work Plan*, URS Corporation (URS) implemented biweekly groundwater batch extraction at the site utilizing a vacuum truck (URS, *Off-Site Soil and Water Investigation Report*, June 15, 2005). Over this time period, groundwater was periodically extracted from wells MW-1, MW-2, MW-4, MW-8, and MW-9, which resulted in the removal of approximately 125 gallons of groundwater. Due to the limited groundwater recovery and the slow recharge of groundwater levels in the wells, URS discontinued groundwater batch extraction upon approval of Alameda County Health Care Services Agency (ACHCSA). Based on information within the Regional Water Quality Control Board – San Francisco Bay Region's (RWQCB-SFBR) June 1999 *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report* classifying the area of the site as a Zone B Groundwater Management Zone, an area where groundwater is unlikely to be used as a drinking water source and monitored natural attenuation (MNA) was the recommended remedial alternative based on this designation, URS recommended the submittal of a corrective action plan (CAP) proposing MNA as a potential remedial option for the site (URS, *Discontinuation of Interim Remedial Action, ACEH Case #RO0000066*, October 7, 2004).

In June 2005, URS supervised the installation of two off-site, downgradient groundwater monitoring wells (MW-10 and MW-11) on the Powell Street Plaza property, located south of the site. Soil samples from both of the borings at depths of seven feet bgs (MW-10), and 18 and 23.5 feet bgs did not contain petroleum hydrocarbons or fuel oxygenates at or above laboratory method reporting limits (MRLs). With the exception of a concentration of MtBE in well MW-10 (1.5 µg/L), petroleum hydrocarbons and fuel oxygenates were not detected in groundwater from the wells. The direction of groundwater flow was toward the southwest at a calculated hydraulic gradient of 0.02 feet per foot (ft/ft). URS concluded that the off-site, lateral extent of dissolved impacts had been delineated during this investigation. URS again recommended the submittal of a CAP that will include an outline of possible remedial alternatives, and a proposal for implementing a selected remedial strategy based on the evaluation of historical and current subsurface site conditions, and the past performance of remedial feasibility testing and interim remedial action at the site (URS, *Off-Site Soil and Water Investigation Report*, June 15, 2005).

SENSITIVE RECEPTOR SURVEY

A sensitive receptor survey was initially performed by Alisto during site assessment activities in October 1992. The results of the survey indicated the presence of a surface water body within 1,000 feet of the site. Alisto further indicated that the aquifer beneath the site was not a potential source of drinking water (EMCON, *Baseline Assessment Report*, December 27, 1994).

**ATTACHMENT B
MONITORING AND SAMPLING FIELD NOTES AND SECOR'S
STANDARD GROUNDWATER MONITORING AND SAMPLING
PROCEDURES**

Quarterly Groundwater Monitoring Progress Report – Second Quarter 2007
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SECOR INTERNATIONAL INCORPORATED

STANDARD PROCEDURE FOR EQUIPMENT DECONTAMINATION

Equipment that could potentially contact subsurface media and compromise the integrity of the samples is carefully decontaminated prior to sampling. Samplers, groundwater pumps, liners and other equipment are decontaminated in an Alconox scrub solution and double rinsed in clean tap water rinse followed by a final distilled water rinse.

Waste water generated during decontamination of equipment is pumped into a SECOR truck-mounted water tank. The water is then transferred into 55-gallon, steel, California Department of Transportation (DOT)-approved drums pending waste characterization and disposal by a BP-approved subcontractor.

SECOR INTERNATIONAL INCORPORATED

STANDARD PROCEDURE FOR GROUNDWATER SAMPLING

Depth to Groundwater/LPH Thickness Measurements

Prior to purging each of the wells, the depth to groundwater and thickness of liquid phase hydrocarbons (LPH), if present, within each well casing is measured to the nearest 0.01 foot using either an electronic Solinst water level indicator or an electronic oil-water interface probe. Measurements are taken from a point of known elevation on the top of each well casing as determined in accordance with previous surveys.

Groundwater Monitoring Well Purging

Where purging is conducted prior to sampling wells that do not contain LPH, a dedicated 1-inch diameter polyvinyl chloride (PVC) "stinger," bailer, or groundwater pump may be used to purge the wells. During purging a minimum of three well volumes, measured as the annular space of the well casing below the groundwater surface, are removed from each well. However, in the case of very slow recharging wells, purging is deemed sufficient if the well contents are evacuated during purge operations. Unless recharge takes more than two hours, wells are sampled once the well is recharged to within 80 percent of pre-purge groundwater elevation. For very slow recharging wells (wells pumped dry during purging), samples may be collected after two hours of recharge.

To help assure that the collected samples are representative of fresh formation water, the conductivity, temperature, and pH of the delivered effluent are monitored and recorded using a Cambridge Hydac meter, or another meter similar in nature during purge operations. Purge operations are determined to be sufficient once successive measurements of pH, conductivity, and temperature stabilize to within +/- 10 percent.

Groundwater Sample Acquisition and Handling

Following purging operations, groundwater samples are collected from each of the wells, using pre-cleaned, single-sample polypropylene, disposable bailers. The groundwater sample is discharged from the bailer to the sample container through a bottom emptying flow control valve to minimize volatilization.

Collected water samples are discharged directly into laboratory provided, pre-cleaned, 40-milliliter glass vials and sealed with Teflon-lined septum, screw-on lids. Labels documenting sample number, well identification, collection date and time, type of sample and type of preservative (if applicable) are affixed to each sample. The samples are then placed into an ice-filled cooler for delivery under chain-of-custody to a laboratory certified by the State of California Department of Health Services Environmental Laboratory Accreditation Programs to perform the specified tests.

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Trip Blanks

To help assure the quality of the collected samples and to evaluate the potential for cross contamination during transport to the laboratory, a distilled-water trip blank accompanies the samples in the cooler. The trip blank is analyzed for the presence of volatile organic compounds of concern. For petroleum hydrocarbons, the trip blank is typically analyzed for GRO, BTEX, and MtBE by EPA Method 8260B.

Related Procedures:

- *Standard Procedure for Equipment Decontamination*

SECOR International Incorporated

HYDROLOGIC DATA SHEET

Gauge Date: 6-1-07

Project Name: 76 Former BP 11126

Field Technician: Raymond Goetz

Project Number: 77BP.11126.01.0427/ 77CP.01731.04.1006

TOC = Top of Well Casing Elevation
 DTP = Depth to Free Product (FP or NAPL) Below TOC
 DTW = Depth to Groundwater Below TOC
 DTB = Depth to Bottom of Well Casing Below TOC

DIA = Well Casing Diameter
 ELEV = Groundwater Elevation
 DUP = Duplicate

WELL OR LOCATION	TIME	MEASUREMENT						PURGE & SAMPLE 2Q07	SHEEN CONFIRMATION (w/bailer)	COMMENTS
		TOC	DTP	DTW	DTB	DIA	ELEV			
8 MW-1	915	10.16		3.53	12	2.0		Yes		
1 MW-2	925	11.39		4.34	12	2.0		Yes		
4 MW-3	902	10.73		5.53	12	2.0		Yes		
5 MW-4	905	10.58		5.21	11?	2.0		Yes		
1 MW-5	1250	10.18		5.34	13.5	4.0		Yes		
6 MW-6	908	11.01		6.77	14	2.0		Yes		
7 MW-7	911	10.11		5.97	14	2.0		Yes		
0 MW-8	921	11.08		4.74	14	2.0		Yes		
9 MW-9	918	10.55		3.53	14	4.0		Yes		
3 MW-10	856	12.53		8.55	17	2.0		Yes		
2 MW-11	852	14.55		9.87	17	2.0		Yes		

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goeke WELL I.D.: MW-1
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-1
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1200 END (2400hr) 1209
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1215
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) $\frac{1}{(0.17)}$ $\frac{1}{(0.38)}$ $\frac{1}{(0.67)}$ $\frac{1}{(1.02)}$ $\frac{1}{(1.50)}$ $\frac{1}{(2.60)}$ $\frac{1}{()}$

DEPTH TO BOTTOM (feet) = 12.0 CASING VOLUME (gal) = 1143
 DEPTH TO WATER (feet) = 3.53 CALCULATED PURGE (gal) = 4.31
 WATER COLUMN HEIGHT (feet) = 8.47 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1203</u>	<u>1</u>	<u>19.4</u>	<u>1259</u>	<u>6.76</u>	<u>clear</u>	<u>56.41</u>
<u>↓</u>	<u>1206</u>	<u>2</u>	<u>19.5</u>	<u>1292</u>	<u>6.74</u>	<u>↓</u>	<u>76.58</u>
	<u>1209</u>	<u>3</u>	<u>19.2</u>	<u>1451</u>	<u>6.72</u>	<u>↓</u>	<u>119.3</u>

SAMPLE DEPTH TO WATER: 3.53 SAMPLE INFORMATION SAMPLE TURBIDITY: 67.91

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: none SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (_____ PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goeke

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goetze WELL I.D.: MW-2
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-2
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1320 END (2400hr) 1326
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1335
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 12.0 CASING VOLUME (gal) = 1.30
 DEPTH TO WATER (feet) = 4.34 CALCULATED PURGE (gal) = 3.91
 WATER COLUMN HEIGHT (feet) = 7.66 ACTUAL PURGE (gal) = 4.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1324</u>	<u>2</u>	<u>20.4</u>	<u>1816</u>	<u>6.99</u>	<u>Dark grey</u>	<u>207.9</u>
	<u>1326</u>	<u>4</u>	<u>20.9</u>	<u>1820</u>	<u>6.98</u>	<u>↓</u>	<u>212.1</u>
	<u>1328</u>	<u>6</u>	<u>20.5</u>	<u>1821</u>	<u>6.97</u>	<u>↓</u>	<u>216.4</u>

SAMPLE DEPTH TO WATER: 4.34 SAMPLE INFORMATION SAMPLE TURBIDITY: 210.8

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: yes SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**

PURGING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: 10.0

SAMPLING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) _____
 Centrifugal Pump _____ Bailer (PVC or disposable) _____
 Submersible Pump _____ Bailer (Stainless Steel) _____
 Peristaltic Pump _____ Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goetze Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goelke WELL I.D.: MW-3
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-3
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1003 END (2400hr) 1016
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1025
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" Other _____
 Casing Volume: (gallons per foot) 2" (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 12.0 CASING VOLUME (gal) = 1.09
 DEPTH TO WATER (feet) = 5.53 CALCULATED PURGE (gal) = 3.29
 WATER COLUMN HEIGHT (feet) = 6.47 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1007</u>	<u>1</u>	<u>18.0</u>	<u>959</u>	<u>6.94</u>	<u>Clear</u>	<u>137.7</u>
<u>↓</u>	<u>1013</u>	<u>2</u>	<u>18.4</u>	<u>973</u>	<u>6.90</u>	<u>↓</u>	<u>221.1</u>
	<u>1016</u>	<u>3</u>	<u>18.3</u>	<u>1001</u>	<u>6.90</u>	<u>↓</u>	<u>357.2</u>

SAMPLE DEPTH TO WATER: 5.53 SAMPLE INFORMATION SAMPLE TURBIDITY: 215.1

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: none **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**
 SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goelke Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goebel WELL I.D.: MW-4
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-4
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED Raymond Goebel START (2400hr) 1041 END (2400hr) 1044
 DATE SAMPLED RG SAMPLE TIME (2400hr) 1100
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 11.0 CASING VOLUME (gal) = 1.98
 DEPTH TO WATER (feet) = 5.21 CALCULATED PURGE (gal) = 2.95
 WATER COLUMN HEIGHT (feet) = 5.79 ACTUAL PURGE (gal) = 1.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1043</u>	<u>1</u>	<u>17.7</u>	<u>278</u>	<u>7.07</u>	<u>cloudy</u>	<u>258.2</u>
<u>↓</u>		<u>2</u>				<u>↓</u>	
	<u>1044</u>	<u>dry at 1.5 gal</u>					

SAMPLE DEPTH TO WATER: 5.21 SAMPLE INFORMATION SAMPLE TURBIDITY: 205.7

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: None SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 1

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (_____ PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goebel

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goeke WELL I.D.: MW-5
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-5
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1257 END (2400hr) 1304
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1310
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 13.5 CASING VOLUME (gal) = 1.38
 DEPTH TO WATER (feet) = 5.34 CALCULATED PURGE (gal) = 4.16
 WATER COLUMN HEIGHT (feet) = 8.16 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1300</u>	<u>1</u>	<u>20.8</u>	<u>781</u>	<u>6.58</u>	<u>Grey</u>	<u>9871</u>
	<u>1302</u>	<u>2</u>	<u>20.8</u>	<u>783</u>	<u>6.64</u>	<u>↓</u>	<u>1087</u>
	<u>1304</u>	<u>3</u>	<u>21.0</u>	<u>789</u>	<u>6.67</u>	<u>↓</u>	<u>1100</u>

SAMPLE DEPTH TO WATER: 5.34 SAMPLE INFORMATION SAMPLE TURBIDITY: 1100

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: yes **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**
 SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes
 REMARKS: Hand bailed well

SIGNATURE: Raymond Goeke Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goeke WELL I.D.: Mw-6
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: Mw-6
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1103 END (2400hr) 1111
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1125
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 1410 CASING VOLUME (gal) = 1.32
 DEPTH TO WATER (feet) = 6.77 CALCULATED PURGE (gal) = 3.96
 WATER COLUMN HEIGHT (feet) = 7.78 ACTUAL PURGE (gal) = 2.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1107</u>	<u>1</u>	<u>19.6</u>	<u>2.21ms</u>	<u>7.14</u>	<u>Dark grey</u>	<u>1100</u>
	<u>1111</u>	<u>2</u>	<u>20.3</u>	<u>1720</u>	<u>7.05</u>	<u>↓</u>	<u>1100</u>
		<u>3</u>					
		<u>DRY at 2.0 gal</u>					

SAMPLE DEPTH TO WATER: 6.77 SAMPLE INFORMATION SAMPLE TURBIDITY: 1100

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: none SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes
 REMARKS: needs new well box 12" well box Bolts Stripped out well box needs to be raised up.
Hand bailed well

SIGNATURE: Raymond Goeke Page ____ of ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goelke WELL I.D.: MW-7
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-7
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1135 END (2400hr) 1147
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1155
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) 2" (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) Other ()

DEPTH TO BOTTOM (feet) = 14.0 CASING VOLUME (gal) = 1.36
 DEPTH TO WATER (feet) = 5.97 CALCULATED PURGE (gal) = 4.09
 WATER COLUMN HEIGHT (feet) = 8.03 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1139</u>	<u>1</u>	<u>21.6</u>	<u>2.93</u>	<u>7.05</u>	<u>Cloudy</u>	<u>134.7</u>
	<u>1143</u>	<u>2</u>	<u>22.3</u>	<u>2.70</u>	<u>7.06</u>	<u>↓</u>	<u>121.5</u>
	<u>1147</u>	<u>3</u>	<u>22.3</u>	<u>1900</u>	<u>7.04</u>	<u>↓</u>	<u>131.1</u>

SAMPLE DEPTH TO WATER: 5.97 SAMPLE INFORMATION SAMPLE TURBIDITY: 125.7

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: none **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**
 SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

____ Bladder Pump _____ Bailer (Teflon)
 ____ Centrifugal Pump _____ Bailer (PVC)
 ____ Submersible Pump _____ Bailer (Stainless Steel)
 ____ Peristaltic Pump _____ Dedicated _____
 Other: _____
 Pump Depth: _____

SAMPLING EQUIPMENT

____ Bladder Pump _____ Bailer (Teflon)
 ____ Centrifugal Pump _____ Bailer (PVC or disposable)
 ____ Submersible Pump _____ Bailer (Stainless Steel)
 ____ Peristaltic Pump _____ Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Bolt holes are stripped out in well Box 8" well Box
Hand bailed well

SIGNATURE: Raymond Goelke Page ____ of ____

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goetze WELL I.D.: MW-8
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-8
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1150 END (2400hr) 1156
 DATE SAMPLED _____ SAMPLE TIME (2400hr) 1203
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) $\frac{2}{(0.17)}$ $\frac{3}{(0.38)}$ $\frac{4}{(0.67)}$ $\frac{5}{(1.02)}$ $\frac{6}{(1.50)}$ $\frac{8}{(2.60)}$ ()

DEPTH TO BOTTOM (feet) = 14.0 CASING VOLUME (gal) = 1157
 DEPTH TO WATER (feet) = 4.74 CALCULATED PURGE (gal) = 4.72
 WATER COLUMN HEIGHT (feet) = 9.26 ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1152</u>	<u>2</u>	<u>18.3</u>	<u>1567</u>	<u>7.04</u>	<u>Clear</u>	<u>87.92</u>
	<u>1154</u>	<u>4</u>	<u>18.6</u>	<u>1680</u>	<u>7.05</u>	<u>↓</u>	<u>40.56</u>
	<u>1156</u>	<u>6</u>	<u>18.9</u>	<u>1692</u>	<u>7.06</u>	<u>↓</u>	<u>24.43</u>

SAMPLE DEPTH TO WATER: 4.74 SAMPLE INFORMATION SAMPLE TURBIDITY: 19.87

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: none SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____
 Pump Depth: 10.0

SAMPLING EQUIPMENT
 Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated _____
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goetze Page ____ of ____

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goehle WELL I.D.: MW-9
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-9
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 1220 END (2400hr) _____
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 1245
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" _____ 3" _____ 4" 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) (0.17) (0.38) (0.67) (1.02) (1.50) (2.60) ()

DEPTH TO BOTTOM (feet) = 1410 CASING VOLUME (gal) = 7.01
 DEPTH TO WATER (feet) = 3.53 CALCULATED PURGE (gal) = 2104
 WATER COLUMN HEIGHT (feet) = 10.47 ACTUAL PURGE (gal) = 2119.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>1225</u>	<u>7</u>	<u>20.5</u>	<u>667</u>	<u>7.01</u>	<u>Clear</u>	<u>16.98</u>
_____	_____	<u>14</u>	_____	_____	_____	_____	_____
_____	_____	<u>21</u>	_____	_____	_____	_____	_____
_____	<u>1227</u>	<u>Dry at</u>	<u>915.991</u>	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE DEPTH TO WATER: 3.53 SAMPLE INFORMATION SAMPLE TURBIDITY: 5.97

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: None **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**
 SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____
 Pump Depth: 10.0

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

Bailer (Teflon)
 Bailer (PVC)
 Bailer (Stainless Steel)
 Dedicated _____

Bailer (Teflon)
 Bailer (PVC or disposable)
 Bailer (Stainless Steel)
 Dedicated _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goehle

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goetze WELL I.D.: _____
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-10
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 0925 END (2400hr) 0930
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 0939
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) 2" (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) ()

DEPTH TO BOTTOM (feet) = 17.0 CASING VOLUME (gal) = 1.44
 DEPTH TO WATER (feet) = 8.55 CALCULATED PURGE (gal) = 4.31
 WATER COLUMN HEIGHT (feet) = 8.45 ACTUAL PURGE (gal) = 5.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6/1/07</u>	<u>928</u>	<u>3</u>	<u>17.9</u>	<u>2.08ms</u>	<u>7.22</u>	<u>Clear</u>	<u>219.4</u>
<u>↓</u>	<u>929</u>	<u>4</u>	<u>18.1</u>	<u>2.16ms</u>	<u>7.23</u>	<u>↓</u>	<u>208.7</u>
<u>↓</u>	<u>930</u>	<u>5</u>	<u>18.3</u>	<u>2.25ms</u>	<u>7.24</u>	<u>↓</u>	<u>204.3</u>

SAMPLE DEPTH TO WATER: 8.55 SAMPLE INFORMATION SAMPLE TURBIDITY: 196.4

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
 ODOR: None **3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.**
 SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Bailer (Teflon)
 Bailer (PVC)
 Bailer (Stainless Steel)
 Dedicated
 Other: _____
 Pump Depth: 15.0

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Bailer (Teflon)
 Bailer (PVC or disposable)
 Bailer (Stainless Steel)
 Dedicated
 Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goetze Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: See Work Order PURGED BY: Raymond Goeke WELL I.D.: MW-11
 CLIENT NAME: 76 (Former BP) #11126 SAMPLED BY: RG SAMPLE I.D.: MW-11
 LOCATION: 1700 Powell St., Emeryville CA QA SAMPLES: _____

DATE GAUGED 6-1-07 START (2400hr) 903 END (2400hr) 909
 DATE SAMPLED 6-1-07 SAMPLE TIME (2400hr) 915
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____
 Casing Volume: (gallons per foot) 2" (0.17) 3" (0.38) 4" (0.67) 5" (1.02) 6" (1.50) 8" (2.60) ()

DEPTH TO BOTTOM (feet) = 17.0 CASING VOLUME (gal) = 1120
 DEPTH TO WATER (feet) = 9.97 CALCULATED PURGE (gal) = 3.59
 WATER COLUMN HEIGHT (feet) = 7.03 ACTUAL PURGE (gal) = 410

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>6-1-07</u>	<u>907</u>	<u>2</u>	<u>15.8</u>	<u>779</u>	<u>7.38</u>	<u>clear</u>	<u>153.4</u>
	<u>908</u>	<u>3</u>	<u>16.3</u>	<u>779</u>	<u>7.63</u>		<u>204.1</u>
	<u>909</u>	<u>4</u>	<u>17.4</u>	<u>780</u>	<u>7.71</u>		<u>148.2</u>

SAMPLE DEPTH TO WATER: 10.08 SAMPLE INFORMATION SAMPLE TURBIDITY: 139.6

80% RECHARGE: YES NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**
3 preserved voas; 1 1-L amber unpreserved for TPHd and 1 1-L preserved for TOG.
 ODOR: none SAMPLE VESSEL / PRESERVATIVE: _____

PURGING EQUIPMENT	SAMPLING EQUIPMENT
<input type="checkbox"/> Bladder Pump <input type="checkbox"/> Centrifugal Pump <input checked="" type="checkbox"/> Submersible Pump <input type="checkbox"/> Peristaltic Pump Other: _____ Pump Depth: <u>15.0</u>	<input type="checkbox"/> Bladder Pump <input type="checkbox"/> Centrifugal Pump <input checked="" type="checkbox"/> Bailer (<input type="checkbox"/> PVC or <input checked="" type="checkbox"/> disposable) <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Bailer (Teflon) <input type="checkbox"/> Bailer (Stainless Steel) <input type="checkbox"/> Dedicated _____ Other: _____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Goeke Page ___ of ___

ATTACHMENT C
CERTIFIED LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION

Quarterly Groundwater Monitoring Progress Report – Second Quarter 2007
76 (Former BP) Service Station No.11126
1700 Powell Street
Emeryville, California

ANALYTICAL REPORT

Job Number: 720-9346-1

Job Description: CP 11126

For:
SECOR International, Inc.
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Attention: Brad Shelton



Dimple Sharma
Project Manager I
dsharma@stl-inc.com
06/15/2007

cc: BPCPN Cal

Project Manager: Dimple Sharma

Severn Trent Laboratories, Inc.

STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.stl-inc.com

Job Narrative
720-J9346-1

- I. Comments
No additional comments.
- II. Receipt
All samples were received in good condition within temperature requirements.
- III. GC/MS VOA
Method 8260B: The matrix spike duplicate (MSD) and RPD recoveries for batch 22494 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.
- IV. GC Semi VOA
No analytical or quality issues were noted.
- V. Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: SECOR International, Inc.

Job Number: 720-9346-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-9346-1	MW-1				
Benzene		200	2.0	ug/L	8260B
Ethylbenzene		34	2.0	ug/L	8260B
MTBE		140	2.0	ug/L	8260B
TAME		2.2	2.0	ug/L	8260B
Toluene		3.4	2.0	ug/L	8260B
Xylenes, Total		59	4.0	ug/L	8260B
TBA		1500	20	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		2100	200	ug/L	8260B
720-9346-2	MW-2				
Benzene		12000	100	ug/L	8260B
Ethylbenzene		4200	100	ug/L	8260B
MTBE		17000	100	ug/L	8260B
TAME		310	100	ug/L	8260B
Toluene		6400	100	ug/L	8260B
Xylenes, Total		11000	200	ug/L	8260B
TBA		4900	1000	ug/L	8260B
DIPE		260	200	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		120000	10000	ug/L	8260B
720-9346-3	MW-3				
MTBE		3.7	0.50	ug/L	8260B
TBA		320	5.0	ug/L	8260B
Diesel Range Organics [C9-C24]		350	50	ug/L	8015B
720-9346-4	MW-4				
MTBE		31	25	ug/L	8260B
TBA		32000	250	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		2700	2500	ug/L	8260B
720-9346-5	MW-5				
Benzene		3.4	2.5	ug/L	8260B
MTBE		11	2.5	ug/L	8260B
Xylenes, Total		6.6	5.0	ug/L	8260B
TBA		40	25	ug/L	8260B
DIPE		32	5.0	ug/L	8260B
EDB		5.8	2.5	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		7000	250	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: SECOR International, Inc.

Job Number: 720-9346-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-9346-6	MW-6				
MTBE		7.4	0.50	ug/L	8260B
TAME		0.77	0.50	ug/L	8260B
TBA		160	5.0	ug/L	8260B
720-9346-7	MW-7				
MTBE		7.5	0.50	ug/L	8260B
TAME		0.59	0.50	ug/L	8260B
TBA		600	5.0	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		120	50	ug/L	8260B
720-9346-8	MW-8				
MTBE		8.7	5.0	ug/L	8260B
TBA		3700	50	ug/L	8260B
720-9346-9	MW-9				
Benzene		980	13	ug/L	8260B
Ethylbenzene		250	13	ug/L	8260B
MTBE		1800	13	ug/L	8260B
TAME		50	13	ug/L	8260B
Toluene		16	13	ug/L	8260B
Xylenes, Total		95	25	ug/L	8260B
TBA		2300	130	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		6500	1300	ug/L	8260B
720-9346-10	MW-10				
MTBE		1.2	0.50	ug/L	8260B

METHOD SUMMARY

Client: SECOR International, Inc.

Job Number: 720-9346-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL SF	SW846 8260B	
Purge-and-Trap	STL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	STL SF		SW846 3510C
HEM and SGT-HEM by Extraction and Gravimetry	STL SF	EPA-01 1664A	
HEM and SGT-HEM by Extraction and	STL SF		EPA-01 1664A

LAB REFERENCES:

STL SF = STL San Francisco

METHOD REFERENCES:

EPA-01 - "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: SECOR International, Inc.

Job Number: 720-9346-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-9346-1	MW-1	Water	06/01/2007 1215	06/01/2007 1415
720-9346-2	MW-2	Water	06/01/2007 1335	06/01/2007 1415
720-9346-3	MW-3	Water	06/01/2007 1025	06/01/2007 1415
720-9346-4	MW-4	Water	06/01/2007 1100	06/01/2007 1415
720-9346-5	MW-5	Water	06/01/2007 1310	06/01/2007 1415
720-9346-6	MW-6	Water	06/01/2007 1125	06/01/2007 1415
720-9346-7	MW-7	Water	06/01/2007 1155	06/01/2007 1415
720-9346-8	MW-8	Water	06/01/2007 1203	06/01/2007 1415
720-9346-9	MW-9	Water	06/01/2007 1245	06/01/2007 1415
720-9346-10	MW-10	Water	06/01/2007 0939	06/01/2007 1415
720-9346-11	MW-11	Water	06/01/2007 0915	06/01/2007 1415
720-9346-12TB	QCTB	Water	06/01/2007 0000	06/01/2007 1415

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-1

Lab Sample ID: 720-9346-1
 Client Matrix: Water

Date Sampled: 06/01/2007 1215
 Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-22357	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturaws\data\200706\06
Dilution:	4.0			Initial Weight/Volume:	40 mL
Date Analyzed:	06/05/2007 1615			Final Weight/Volume:	40 mL
Date Prepared:	06/05/2007 1615				

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		2.0
Benzene	200		2.0
Ethanol	ND		1000
Ethylbenzene	34		2.0
MTBE	140		2.0
TAME	2.2		2.0
Toluene	3.4		2.0
Xylenes, Total	59		4.0
TBA	1500		20
DIPE	ND		4.0
EDB	ND		2.0
Gasoline Range Organics (GRO)-C6-C12	2100		200
Ethyl tert-butyl ether	ND		2.0
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	100		77 - 121
1,2-Dichloroethane-d4 (Surr)	84		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-2

Lab Sample ID: 720-9346-2
 Client Matrix: Water

Date Sampled: 06/01/2007 1335
 Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B	Analysis Batch: 720-22494	Instrument ID: Varian 3900E
Preparation: 5030B		Lab File ID: c:\varianws\data\200706\06
Dilution: 200		Initial Weight/Volume: 10 mL
Date Analyzed: 06/08/2007 1224		Final Weight/Volume: 10 mL
Date Prepared: 06/08/2007 1224		

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		100
Benzene	12000		100
Ethanol	ND		50000
Ethylbenzene	4200		100
MTBE	17000		100
TAME	310		100
Toluene	6400		100
Xylenes, Total	11000		200
TBA	4900		1000
DIPE	260		200
EDB	ND		100
Gasoline Range Organics (GRO)-C6-C12	120000		10000
Ethyl tert-butyl ether	ND		100
Surrogate	%Rec	Acceptance Limits	
Toluene-d8 (Surr)	116	77 - 121	
1,2-Dichloroethane-d4 (Surr)	111	73 - 130	

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-3

Lab Sample ID: 720-9346-3
Client Matrix: Water

Date Sampled: 06/01/2007 1025
Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B	Analysis Batch: 720-22357	Instrument ID: Varian 3900C
Preparation: 5030B		Lab File ID: c:\saturnws\data\200706\06
Dilution: 1.0		Initial Weight/Volume: 40 mL
Date Analyzed: 06/05/2007 1549		Final Weight/Volume: 40 mL
Date Prepared: 06/05/2007 1549		

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	3.7		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	320		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	99		77 - 121
1,2-Dichloroethane-d4 (Surr)	94		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-4

Lab Sample ID: 720-9346-4
Client Matrix: Water

Date Sampled: 06/01/2007 1100
Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-22494	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianws\data\200706\06
Dilution:	50			Initial Weight/Volume:	10 mL
Date Analyzed:	06/08/2007 1524			Final Weight/Volume:	10 mL
Date Prepared:	06/08/2007 1524				

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		25
Benzene	ND		25
Ethanol	ND		13000
Ethylbenzene	ND		25
MTBE	31		25
TAME	ND		25
Toluene	ND		25
Xylenes, Total	ND		50
TBA	32000		250
DIPE	ND		50
EDB	ND		25
Gasoline Range Organics (GRO)-C6-C12	2700		2500
Ethyl tert-butyl ether	ND		25
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	101		77 - 121
1,2-Dichloroethane-d4 (Surr)	117		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-5Lab Sample ID: 720-9346-5
Client Matrix: WaterDate Sampled: 06/01/2007 1310
Date Received: 06/01/2007 1415**8260B Volatile Organic Compounds by GC/MS**Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 06/08/2007 1546
Date Prepared: 06/08/2007 1546

Analysis Batch: 720-22494

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200706\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		2.5
Benzene	3.4		2.5
Ethanol	ND		1300
Ethylbenzene	ND		2.5
MTBE	11		2.5
TAME	ND		2.5
Toluene	ND		2.5
Xylenes, Total	6.6		5.0
TBA	40		25
DIPE	32		5.0
EDB	5.8		2.5
Gasoline Range Organics (GRO)-C6-C12	7000		250
Ethyl tert-butyl ether	ND		2.5
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	113		77 - 121
1,2-Dichloroethane-d4 (Surr)	109		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-6

Lab Sample ID: 720-9346-6
 Client Matrix: Water

Date Sampled: 06/01/2007 1125
 Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B	Analysis Batch: 720-22357	Instrument ID: Varian 3900C	
Preparation: 5030B		Lab File ID: c:\saturaws\data\200706\06	
Dilution: 1.0		Initial Weight/Volume: 40 mL	
Date Analyzed: 06/05/2007 1522		Final Weight/Volume: 40 mL	
Date Prepared: 06/05/2007 1522			

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	7.4		0.50
TAME	0.77		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	160		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	99		77 - 121
1,2-Dichloroethane-d4 (Surr)	97		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-7

Lab Sample ID: 720-9346-7
 Client Matrix: Water

Date Sampled: 06/01/2007 1155
 Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B	Analysis Batch: 720-22494	Instrument ID: Varian 3900E
Preparation: 5030B		Lab File ID: c:\varianws\data\200706\06
Dilution: 1.0		Initial Weight/Volume: 10 mL
Date Analyzed: 06/08/2007 1609		Final Weight/Volume: 10 mL
Date Prepared: 06/08/2007 1609		

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	7.5		0.50
TAME	0.59		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	600		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	120		50
Ethyl tert-butyl ether	ND		0.50
<hr/>			
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	95		77 - 121
1,2-Dichloroethane-d4 (Surr)	113		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-8

Lab Sample ID: 720-9346-8

Client Matrix: Water

Date Sampled: 06/01/2007 1203

Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B

Analysis Batch: 720-22357

Instrument ID: Varian 3900C

Preparation: 5030B

Lab File ID: c:\saturnws\data\200706\06

Dilution: 10

Initial Weight/Volume: 40 mL

Date Analyzed: 06/05/2007 1828

Final Weight/Volume: 40 mL

Date Prepared: 06/05/2007 1828

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		5.0
Benzene	ND		5.0
Ethanol	ND		2500
Ethylbenzene	ND		5.0
MTBE	8.7		5.0
TAME	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
TBA	3700		50
DIPE	ND		10
EDB	ND		5.0
Gasoline Range Organics (GRO)-C6-C12	ND		500
Ethyl tert-butyl ether	ND		5.0
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	101		77 - 121
1,2-Dichloroethane-d4 (Surr)	84		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-9

Lab Sample ID: 720-9346-9

Date Sampled: 06/01/2007 1245

Client Matrix: Water

Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-22357	Instrument ID:	Varian 3900C
Preparation:	5030B			Lab File ID:	c:\saturnws\data\200706\06
Dilution:	25			Initial Weight/Volume:	40 mL
Date Analyzed:	06/05/2007 1855			Final Weight/Volume:	40 mL
Date Prepared:	06/05/2007 1855				

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		13
Benzene	980		13
Ethanol	ND		6300
Ethylbenzene	250		13
MTBE	1800		13
TAME	50		13
Toluene	16		13
Xylenes, Total	95		25
TBA	2300		130
DIPE	ND		25
EDB	ND		13
Gasoline Range Organics (GRO)-C6-C12	6500		1300
Ethyl tert-butyl ether	ND		13
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	100		77 - 121
1,2-Dichloroethane-d4 (Surr)	90		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-10

Lab Sample ID: 720-9346-10
Client Matrix: Water

Date Sampled: 06/01/2007 0939
Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B	Analysis Batch: 720-22357	Instrument ID: Varian 3900C
Preparation: 5030B		Lab File ID: c:\saturaws\data\200706\06
Dilution: 1.0		Initial Weight/Volume: 40 mL
Date Analyzed: 06/05/2007 1456		Final Weight/Volume: 40 mL
Date Prepared: 06/05/2007 1456		

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	1.2		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	96		77 - 121
1,2-Dichloroethane-d4 (Surr)	106		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-11

Lab Sample ID: 720-9346-11
 Client Matrix: Water

Date Sampled: 06/01/2007 0915
 Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-22357 Instrument ID: Varian 3900C
 Preparation: 5030B Lab File ID: c:\saturday\data\200706\06
 Dilution: 1.0 Initial Weight/Volume: 40 mL
 Date Analyzed: 06/05/2007 1429 Final Weight/Volume: 40 mL
 Date Prepared: 06/05/2007 1429

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	107		77 - 121
1,2-Dichloroethane-d4 (Surr)	92		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: QCTB

Lab Sample ID: 720-9346-12TB
Client Matrix: Water

Date Sampled: 06/01/2007 0000
Date Received: 06/01/2007 1415

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-22357 Instrument ID: Varian 3900C
Preparation: 5030B Lab File ID: c:\saturnws\data\200706\06
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 06/05/2007 1402 Final Weight/Volume: 40 mL
Date Prepared: 06/05/2007 1402

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50
Surrogate	%Rec		Acceptance Limits
Toluene-d8 (Surr)	102		77 - 121
1,2-Dichloroethane-d4 (Surr)	100		73 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

Client Sample ID: MW-3

Lab Sample ID: 720-9346-3
Client Matrix: Water

Date Sampled: 06/01/2007 1025
Date Received: 06/01/2007 1415

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-22371	Instrument ID: HP DRO5
Preparation:	3510C	Prep Batch: 720-22335	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 250 mL
Date Analyzed:	06/14/2007 0913		Final Weight/Volume: 1 mL
Date Prepared:	06/05/2007 0726		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	350		50
Surrogate	%Rec		Acceptance Limits
o-Terphenyl	75		50 - 130

Analytical Data

Client: SECOR International, Inc.

Job Number: 720-9346-1

General Chemistry

Client Sample ID: MW-3

Lab Sample ID: 720-9346-3

Client Matrix: Water

Date Sampled: 06/01/2007 1025

Date Received: 06/01/2007 1415

Analyte	Result	Qual	Units	RL	Dil	Method
HEM (Oil & Grease)	ND		mg/L	2.0	1.0	1664A
	Anly Batch: 720-22332	Date Analyzed	06/04/2007	2000		
	Prep Batch: 720-22331	Date Prepared:	06/04/2007	1948		

DATA REPORTING QUALIFIERS

Client: SECOR International, Inc.

Job Number: 720-9346-1

Lab Section	Qualifier	Description
GC/MS VOA		
	LM	MS/MSD Spike Recoveries were above acceptance limits
	RA	RPD exceeds limits due to matrix interference. % recoveries were within limits

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-22357					
LCS 720-22357/2	Lab Control Spike	T	Water	8260B	
LCSD 720-22357/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-22357/4	Method Blank	T	Water	8260B	
720-9346-1	MW-1	T	Water	8260B	
720-9346-3	MW-3	T	Water	8260B	
720-9346-6	MW-6	T	Water	8260B	
720-9346-8	MW-8	T	Water	8260B	
720-9346-9	MW-9	T	Water	8260B	
720-9346-10	MW-10	T	Water	8260B	
720-9346-11	MW-11	T	Water	8260B	
720-9346-11MSD	Matrix Spike Duplicate	T	Water	8260B	
720-9346-12TB	QCTB	T	Water	8260B	
Analysis Batch:720-22494					
LCS 720-22494/6	Lab Control Spike	T	Water	8260B	
LCSD 720-22494/5	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-22494/7	Method Blank	T	Water	8260B	
720-9346-2	MW-2	T	Water	8260B	
720-9346-4	MW-4	T	Water	8260B	
720-9346-5	MW-5	T	Water	8260B	
720-9346-7	MW-7	T	Water	8260B	
720-9411-B-3 MS	Matrix Spike	T	Water	8260B	
720-9411-B-3 MSD	Matrix Spike Duplicate	T	Water	8260B	
Report Basis					
T = Total					
GC Semi VOA					
Prep Batch: 720-22335					
LCS 720-22335/2-AA	Lab Control Spike	T	Water	3510C	
LCSD 720-22335/3-AA	Lab Control Spike Duplicate	T	Water	3510C	
MB 720-22335/1-AA	Method Blank	T	Water	3510C	
720-9346-3	MW-3	T	Water	3510C	
Analysis Batch:720-22371					
LCS 720-22335/2-AA	Lab Control Spike	T	Water	8015B	720-22335
LCSD 720-22335/3-AA	Lab Control Spike Duplicate	T	Water	8015B	720-22335
MB 720-22335/1-AA	Method Blank	T	Water	8015B	720-22335
720-9346-3	MW-3	T	Water	8015B	720-22335
Report Basis					
T = Total					

STL San Francisco

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 720-22331					
LCS 720-22331/2-AA	Lab Control Spike	T	Water	1664A	
LCSD 720-22331/3-AA	Lab Control Spike Duplicate	T	Water	1664A	
MB 720-22331/1-AA	Method Blank	T	Water	1664A	
720-9346-3	MW-3	T	Water	1664A	
Analysis Batch:720-22332					
LCS 720-22331/2-AA	Lab Control Spike	T	Water	1664A	720-22331
LCSD 720-22331/3-AA	Lab Control Spike Duplicate	T	Water	1664A	720-22331
MB 720-22331/1-AA	Method Blank	T	Water	1664A	720-22331
720-9346-3	MW-3	T	Water	1664A	720-22331

Report Basis

T = Total

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

Method Blank - Batch: 720-22357

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-22357/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2007 1206
Date Prepared: 06/05/2007 1206

Analysis Batch: 720-22357
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturnws\data\200706\06
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	104	77 - 121	
1,2-Dichloroethane-d4 (Surr)	88	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-22357**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-22357/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2007 1046
Date Prepared: 06/05/2007 1046

Analysis Batch: 720-22357
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturmws\data\200706\06C
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-22357/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2007 1113
Date Prepared: 06/05/2007 1113

Analysis Batch: 720-22357
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900C
Lab File ID: c:\saturmws\data\200706\06C
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	111	104	69 - 129	6	25		
MTBE	113	109	65 - 165	4	25		
Toluene	104	91	70 - 130	13	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	104		97		77 - 121		
1,2-Dichloroethane-d4 (Surr)	97		108		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

Method Blank - Batch: 720-22494

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-22494/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2007 1116
Date Prepared: 06/08/2007 1116

Analysis Batch: 720-22494
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200706\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50
Surrogate	% Rec	Acceptance Limits	
Toluene-d8 (Surr)	93	77 - 121	
1,2-Dichloroethane-d4 (Surr)	108	73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-22494**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-22494/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2007 1009
Date Prepared: 06/08/2007 1009

Analysis Batch: 720-22494
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200706\06C
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-22494/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2007 1031
Date Prepared: 06/08/2007 1031

Analysis Batch: 720-22494
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200706\06C
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	90	97	69 - 129	8	25		
MTBE	114	113	65 - 165	1	25		
Toluene	99	113	70 - 130	14	25		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	95		103		77 - 121		
1,2-Dichloroethane-d4 (Surr)	109		106		73 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-22494**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID: 720-9411-B-3 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2007 1717
Date Prepared: 06/08/2007 1717

Analysis Batch: 720-22494
Prep Batch: N/A

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200706\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-9411-B-3 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/08/2007 1739
Date Prepared: 06/08/2007 1739

Analysis Batch: 720-22494
Prep Batch: N/A

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200706\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	94	137	69 - 129	37	20		LM RA
MTBE	107	173	65 - 165	47	20		LM RA
Toluene	101	170	70 - 130	51	20		LM RA
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
Toluene-d8 (Surr)		102	118			77 - 121	
1,2-Dichloroethane-d4 (Surr)		116	113			73 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

Method Blank - Batch: 720-22335

**Method: 8015B
Preparation: 3510C**

Lab Sample ID: MB 720-22335/1-AA
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2007 1551
Date Prepared: 06/05/2007 0726

Analysis Batch: 720-22371
Prep Batch: 720-22335
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50
Surrogate	% Rec		Acceptance Limits
o-Terphenyl	66		50 - 130

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-22335**

**Method: 8015B
Preparation: 3510C**

LCS Lab Sample ID: LCS 720-22335/2-AA
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2007 1457
Date Prepared: 06/05/2007 0726

Analysis Batch: 720-22371
Prep Batch: 720-22335
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-22335/3-AA
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2007 1524
Date Prepared: 06/05/2007 0726

Analysis Batch: 720-22371
Prep Batch: 720-22335
Units: ug/L

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C9-C24]	59	55	50 - 130	6	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
o-Terphenyl	91		87		50 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: SECOR International, Inc.

Job Number: 720-9346-1

Method Blank - Batch: 720-22331

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 720-22331/1-AA
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2007 2000
Date Prepared: 06/04/2007 1948

Analysis Batch: 720-22332
Prep Batch: 720-22331
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	RL
HEM (Oil & Grease)	ND		2.0

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-22331**

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID: LCS 720-22331/2-AA
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2007 2000
Date Prepared: 06/04/2007 1948

Analysis Batch: 720-22332
Prep Batch: 720-22331
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

LCSD Lab Sample ID: LCSD 720-22331/3-AA
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2007 2000
Date Prepared: 06/04/2007 1948

Analysis Batch: 720-22332
Prep Batch: 720-22331
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1000 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
HEM (Oil & Grease)	95	96	75 - 111	1	13		

Calculations are performed before rounding to avoid round-off errors in calculated results.



A BP affiliated company

Chain of Custody Record

720-9346

Project Name: 76(former BP) Service Station No. 11126
 BP BU/AR Region/Enfos Segment: Environmental/Retail
 State or Lead Regulatory Agency: SCCDEH
 Requested Due Date (mm/dd/yy): 14 day TAT

105690
1 of 2

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: SEVERN TRENT Laboratories (STL) Address: 1220 Quarry Lane, Pleasanton, CA 94566	BP/AR Facility No.: 11126 BP/AR Facility Address: 1700 Powell Street Emeryville, Ca Site Lat/Long: 37.838926108 -122.295216	Consultant/Contractor: SECOR International Inc. Address: 3017 Kilgore Rd. Suite 100 Rancho Cordova, CA 95670
Lab PM: Dimple Sharma Tele/Fax: 925-484-1919	California Global ID No.: T0600100208 Enfos Project No.:	Consultant Project No.: 77BP.11126.01.0403/77CP.01731.04.2080 Consultant/Contractor PM: Catherine Spelis/Brad Shelton
BP/AR EBM: Paul Supple Address: P.O. Box 1257 San Ramon, CA 94583 Tele/Fax: 925-299-8891	Provision or OOC (circle one) Phase/WBS: Sub Phase/Task: Cost Element:	Tele/Fax: 916-861-0400 Ext. 320/329 Report Type & QC Level: Quarterly Monitoring and Sampling E-mail EDD To: BPCPNCal@secor.com bpdata@secor.com Invoice to: SECOR International

Item No.	Sample Description	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments																			
				Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/ 6 oxygenates/ 1,2-DCA/EDB by EPA 8260B	GRO/BTEX/MBE by EPA 8260B	TEPH/EPA 8015M* <input checked="" type="checkbox"/> Diesel	Total Oil and Grease (EPA 1664)																						
1	MW-1	1215	6-1	X				3			X				X																								
2	MW-2	1335		X				3			X				X																								
3	MW-3	1025		X				5			X				X	X	X																						
4	MW-4	1100		X				3			X				X																								
5	MW-5	1310		X				3			X				X																								
6	MW-6	1125		X				3			X				X																								
7	MW-7	1155		X				3			X				X																								
8	MW-8	1203		X				3			X				X																								
9	MW-9	1245		X				3			X				X																								
10	MW-10	939		X				3			X				X																								

Sampler's Name: <u>Raymond Geelke</u>	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Sampler's Company: <u>SECOR</u>	<u>Raymond Geelke</u>		<u>6-1-07</u>	<u>1215</u>	<u>Van Mulder-Stice</u>		<u>6-1-07</u>	<u>1415</u>
Shipment Date:								
Shipment Method:								
Shipment Tracking No:								

Special Instructions: Bill costs to SECOR. EDF must be in BP format. This for site BP #11126 quarterly monitoring and sampling.

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 2.3 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Chain of Custody Record

720-9346

Project Name: 76(former BP) Service Station No. 11126
BP BU/AR Region/Enfos Segment: Environmental/Retail
State or Lead Regulatory Agency: SCCDEH
Requested Due Date (mm/dd/yy): 14 day TAT

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name: SEVERN TRENT Laboratories (STL) Address: 1220 Quarry Lane, Pleasanton, CA 94566			BP/AR Facility No.: 11126 BP/AR Facility Address: 1700 Powell Street Emeryville, CA Site Lat/Long: 37.838926108 -122.295216 California Global ID No.: T0600100208 Enfos Project No.:			Consultant/Contractor: SECOR International Inc. Address: 3017 Kilgore Rd. Suite 100 Rancho Cordova, CA 95670 Consultant Project No.: 77BP.11126.01.0403/77CP.01731.04.2080 Consultant/Contractor PM: Catherine Spelis/Brad Shelton Tele/Fax: 916-861-0400 Ext. 320/329 Report Type & QC Level: Quarterly Monitoring and Sampling E-mail EDD To: BPCPNCal@secor.com, bpdata@secor.com Invoice to: SECOR International																			
Lab PM: Dimple Sharma Tele/Fax: 925-484-1919 BP/AR EBM: Paul Supple Address: P.O. Box 1257 San Ramon, CA 94583 Tele/Fax: 925-299-8891			Provision or OOC (circle one) Phase/WBS: Sub Phase/Task: Cost Element:																						
Lab Bottle Order No.:			Matrix			Preservative			Requested Analysis			Sample Point Lat/Long and Comments													
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air	Laboratory No.	No. of Containers	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	GRO/BTEX/6 oxygenates/1,2-DCAVEDB by EPA 8260B	GRO/BTEX/MBE by EPA 8260B										
1	MW-11	915	6-1		x			3						x											37.83772 -122.2958459
2	QCTB				x			2							x										
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
Sampler's Name: <u>Raymond Goetz</u>							Relinquished By / Affiliation: <u>Raymond Goetz</u>					Date: <u>6-1-07</u>		Time: <u>1415</u>		Accepted By / Affiliation: <u>Jason Miller STL S&P</u>				Date: <u>6-1-07</u>		Time: <u>1415</u>			
Sampler's Company: <u>SECOR</u>																									
Shipment Date:																									
Shipment Method:																									
Shipment Tracking No:																									
Special Instructions: Bill costs to SECOR. EDF must be in BP format. This for site BP #11126 quarterly monitoring and sampling.																									
Custody Seals In Place: Yes / No					Temp Blank: Yes / No					Cooler Temp on Receipt: <u>2.3 °F</u>					Trip Blank: Yes / No					MS/MSD Sample Submitted: Yes / No					

LOGIN SAMPLE RECEIPT CHECK LIST

Client: SECOR International, Inc.

Job Number: 720-9346-1

Login Number: 9346

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	