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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



Stantec

**Quarterly Groundwater Monitoring
Progress Report Third Quarter 2008**

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

Stantec Project No.: 77BP.11126.02.0436
and 77CP.01731.41

Submitted to:

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

Submitted by:

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Prepared on behalf of:

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November 5, 2008

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- Attachment A Previous Investigations and Site History Summary
- Attachment B Stantec’s Procedures for Groundwater Monitoring and Sampling, and Equipment Decontamination
- Attachment C Quarterly Monitoring Field Data Sheets
- Attachment D Certified Laboratory Analytical Report, Chain-of-Custody Documentation, and Stantec Laboratory Validation Form

1.0 SITE INFORMATION AND BACKGROUND

Service Station No.:	11126
Site Address:	1700 Powell Street, Emeryville, California 94608
Consulting Company:	Stantec Consulting Corporation (Stantec) – Ms. Catherine Francini
Stantec Project No.:	77BP.11126.02.0436 and 77CP.01731.41
Primary Agency / Contact:	Mr. Steven Plunkett Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

WORK PERFORMED THIS QUARTER [THIRD – 2008]

1. Stantec Consulting Corporation (Stantec) submitted the *Quarterly Groundwater Monitoring Progress Report (QMR) Second Quarter 2008 (2Q08)* on June 19, 2008.
2. Stantec performed the groundwater monitoring and sampling event on September 26, 2008.

WORK PROPOSED FOR NEXT QUARTER [FOURTH – 2008]

1. Stantec will prepare and submit the QMR-3Q08.
2. Stantec will perform the monitoring and sampling event.

Background

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 (ft) 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.

SITE INFORMATION

Current phase of project:	Groundwater monitoring and sampling
Have separate-phase hydrocarbons (SPH) historically been found on-site?:	No
Historic range in depth-to-water (DTW) [ft below top of casing (TOC), 4Q93 to 3Q08]:	2.50 ft to 10.51 ft below top of casing (TOC)
Water Supply Wells within a 2,000-foot radius and their Respective Direction:	unknown
Current remediation technique:	Natural Attenuation

CURRENT SAMPLING SCHEDULE

(All wells gauged quarterly unless otherwise noted)

<u>Current Sampling Schedule</u>	All wells gauged quarterly unless otherwise noted
Well ID:	All Quarters
MW-1 and MW-2	GRO/BTEX/OXYS/1,2-DCA/EDB
MW-3	GRO/BTEX/OXYS/1,2-DCA/EDB/DRO/TOG
MW-4 through MW-11	GRO/BTEX/OXYS/1,2-DCA/EDB
Gasoline range organics (GRO); benzene, toluene, ethylbenzene, xylenes (collectively BTEX); methyl tert-butyl ether (MTBE), tertiary butyl alcohol (TBA), tert-amyl methyl ether (TAME), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), ethanol (collectively OXYS); 1,2-Dichloroethane (1,2-DCA); 1,2-dibromoethane (EDB); diesel range organics (DRO); total petroleum hydrocarbons as oil and grease (TOG)	

CURRENT QUARTER MONITORING DATA

Wells Monitored and Sampled:	MW-1 through MW-11
Sampling Date	September 26, 2008
Depth to Groundwater (DTW, ft below TOC)	4.29 ft in MW-1 to 10.51 ft below TOC in MW-11
Average Change in Groundwater Elevation Since Last Event (ft):	0.47 decrease [4.96 (2Q08) – 4.49 (3Q08)]
Groundwater Flow Direction and Gradient:	South at 0.02 foot per foot (ft/ft)

CURRENT QUARTER ANALYTICAL DATA – SHALLOW ZONE

Constituents	No. of detections above the laboratory method reporting limits (MRL): No. of wells analyzed	Minimum Concentration [micrograms per liter (µg/L)]	Maximum Concentration (µg/L)
GRO	7 : 11	<50	10,000 (MW-9)
Benzene	4 : 11	<1.0	220 (MW-2)
MTBE	10 : 11	<1.0	960 (MW-2)
TBA:	8 : 11	<5.0	77,000 (MW-2)

2.0 Groundwater Monitoring and Sampling

2.1 MONITORING AND SAMPLING PROCEDURES

The current groundwater monitoring well network consists of 11 wells (MW-1 through MW-11). DTW measurements are taken and groundwater samples are collected on a quarterly basis. During the third quarter 2008, groundwater samples were collected on September 26, 2008. Stantec's field procedures for sample collection are presented as Attachment B. Field notes from the third quarter sampling event are included as Attachment C.

2.2 GROUNDWATER SAMPLE ANALYSIS

Groundwater samples were submitted to Lancaster Laboratories of Lancaster Pennsylvania, a California Certified Laboratory for analysis of GRO, BTEX, fuel oxygenates (MtBE, TAME, DIPE, EtBE, TBA, and ethanol), and lead scavengers 1,2-DCA and 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 DRO by EPA Method 8015B and TOG by EPA Method 1664A. The certified laboratory analytical report and chain-of-custody documentation are included as Attachment D.

2.3 QUALITY ASSURANCE / QUALITY CONTROL

Analytical data was quality assured and quality controlled using the Stantec Lab Validation Form. All data is acceptable except for the following issues:

Due to shipping issues, the temperature of the samples upon receipt at the lab was 8.7 – 10.8 degrees Celsius. Preservative requirements were not met for samples collected from MW-2. The vial containing samples collected from MW-2 submitted for volatile analysis did not have a pH < 2 at the time of analysis; the pH of the sample was pH = 3. The holding time was not met for DRO samples collected from MW-3; DRO analysis was added outside of the extraction holding time.

3.0 Discussion / Conclusion

3.1 GROUNDWATER SAMPLE RESULTS AND DISTRIBUTION

During the third quarter 2008, depth to groundwater within the wells ranged from 4.29 ft below TOC in well MW-1 to 10.51 ft below TOC in well MW-11. Historical depth to groundwater levels have ranged between approximately 2.50 ft and 10.51 ft below TOC. On September 26, 2008, the direction of groundwater flow beneath and in the site vicinity was toward the south at a hydraulic gradient of 0.02 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 to southerly groundwater flow direction reported over previous sampling events, elevated concentrations of GRO have been present down-gradient in MW-5, and elevated concentrations of TBA have been detected in well MW-4.

Dissolved GRO, BTEX, and MtBE

During the third quarter 2008 monitoring and sampling event, well MW-9 contained the greatest concentrations of GRO at 10,000 µg/L. Additionally, concentrations of GRO were detected in wells MW-1 through MW-5 and MW-8 at concentrations ranging from 120 µg/L (MW-3) to 4,800 µg/L (MW-2) during the current quarter.

During the third quarter 2008, well MW-2 contained the greatest concentrations of benzene, toluene, and xylenes at respective concentrations of 220 µg/L, 12 µg/L, and 42 µg/L. Benzene was additionally detected in wells MW-1 (26 µg/L), MW-5 (1.5 µg/L), and MW-9 (94 µg/L); toluene was additionally detected in wells MW-1 (6.1 µg/L), and MW-9 (11 µg/L); xylenes were additionally detected in wells MW-1 (10 µg/L), MW-5 (2.2 µg/L), and MW-9 (35 µg/L) during the current quarter. Ethylbenzene was detected in wells MW-2 (20 µg/L) and MW-9 (26 µg/L), during the third quarter 2008.

During the third quarter 2008, the greatest concentrations of MTBE were detected in well MW-2 at 960 µg/L. MTBE was additionally detected in wells MW-1 and MW-3 through MW-10 at concentrations ranging from 2.8 µg/L (MW-5) to 280 µg/L (MW-9) during the current quarter.

Dissolved Other Fuel Oxygenates and Lead Scavengers

TBA was detected in wells MW-1 through MW-4 and MW-6 through MW-9 up to a maximum concentration of 77,000 µg/L (MW-2) during the third quarter 2008. TAME was detected in wells MW-1 (1.9 µg/L), MW-2 (42 µg/L), and MW-9 (6.2 µg/L) during the third quarter 2008. Additionally, ETBE was detected in wells MW-2 and MW-4 at 2.8 µg/L. Other oxygenates (DIPE, and ethanol) and lead scavengers (1,2-DCA, and EDB) were not detected at or above laboratory MRLs during the third quarter 2008.

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 3,000 µg/L, while TOG was not detected at or above laboratory MRLs during the third quarter 2008 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 and BTEX in groundwater has been delineated in the westerly direction by low to non-detectable concentrations in wells 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).

4.0 Purge Water Disposal

Approximately 45 gallons of purged groundwater were generated during the third quarter 2008 groundwater sampling event. The water was transferred into 55-gallon, steel, California Department of Transportation-approved drums pending waste characterization and transported by Belshire Environmental Services Inc. to DeMenno Kerdoon in Compton California for disposal.

5.0 Recommendations and Conclusions

Since the groundwater gradient has been predominately to the southwest with occasional fluctuations to the south, and the site has been adequately delineated in those directions, it appears the plume is stable and confined to the site boundaries.

In a letter dated February 1, 2008, the Alameda County Environmental Health Services (ACEH) requested the submittal of a remedial action plan to address source area contamination. SECOR, now Stantec, submitted the *Remedial Action Plan* on March 30, 2007. The plan recommended oxygen injection as a possible remedial option. No response has been received from the ACEH to date. Monitored natural attenuation will continue to be pursued as the remedial alternative for this site unless the ACEH directs Stantec to pursue other options.

6.0 Limitations

This report was prepared in accordance with the scope of work outlined in Stantec'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 Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec 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 Stantec.


Prepared by:



Kimber Collins
Project Scientist

All information, conclusions, and recommendations provided by Stantec 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:



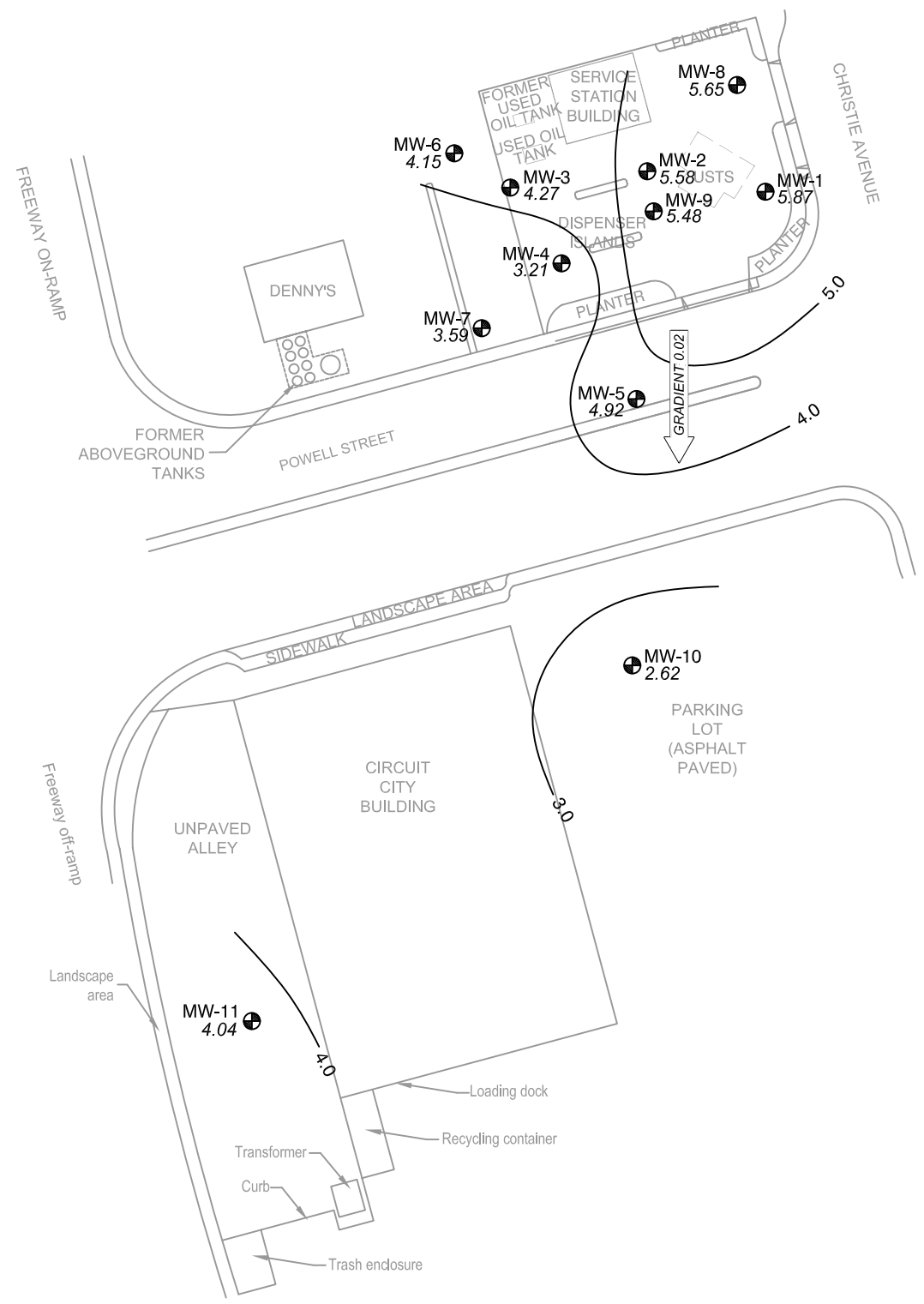
Brad Shelton, P.G.
Associate Geologist

November 5, 2008

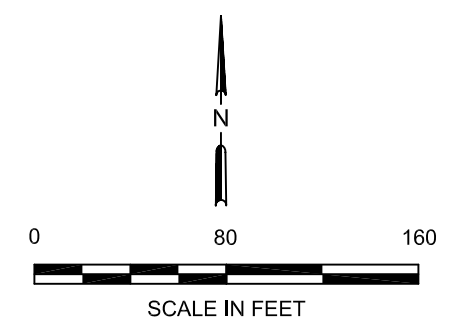


cc: Mr. Paul Supple, Atlantic Richfield Company (electronic upload to ENFOS)
Ms. Shelby Lathrop, ConocoPhillips (electronic upload to LiveLink)

Figures



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



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FOR: 76 (FORMER BP)
SERVICE STATION NO. 11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

JOB NUMBER:
77BP.11126.02
77CP.01731.41

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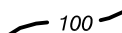

**GROUNDWATER ELEVATION
CONTOUR MAP
SEPTEMBER 26, 2008**

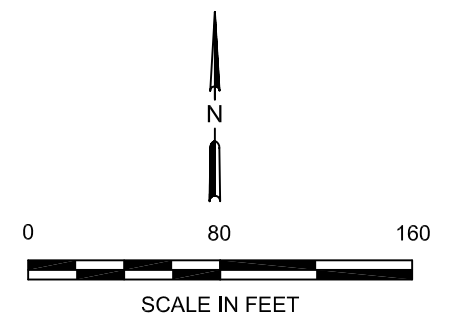
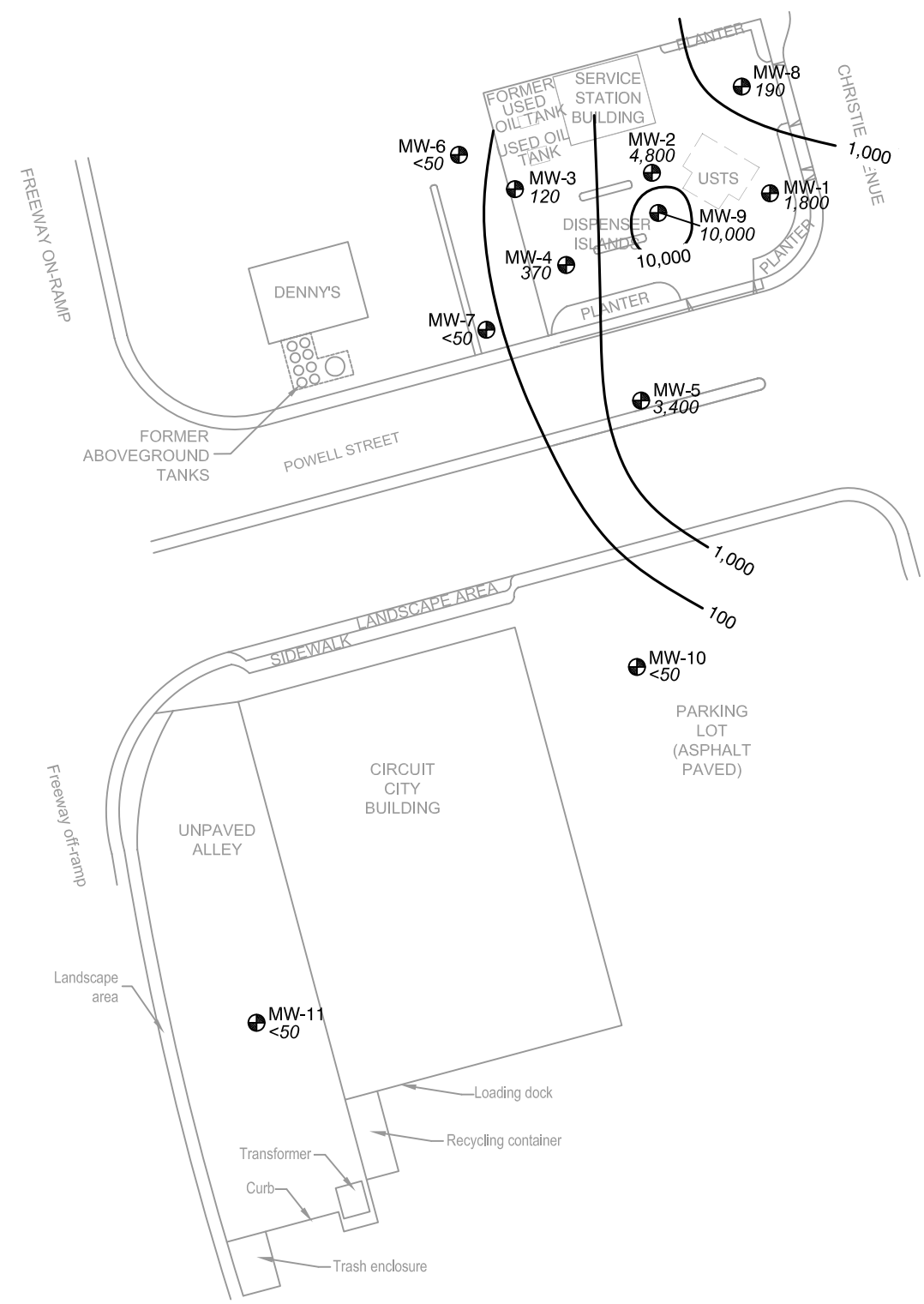
CHECKED BY: KC
APPROVED BY: BS

FIGURE:
1

DATE:
10/30/08

LEGEND:

- MW-1  GROUNDWATER MONITORING WELL
-  100 GRO ISOCONCENTRATION CONTOUR
-  120 GRO CONCENTRATION ($\mu\text{g/L}$)
- GRO GASOLINE RANGE ORGANICS
- $\mu\text{g/L}$ MICROGRAMS PER LITER




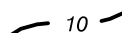

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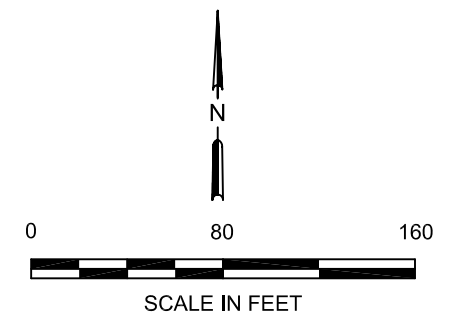
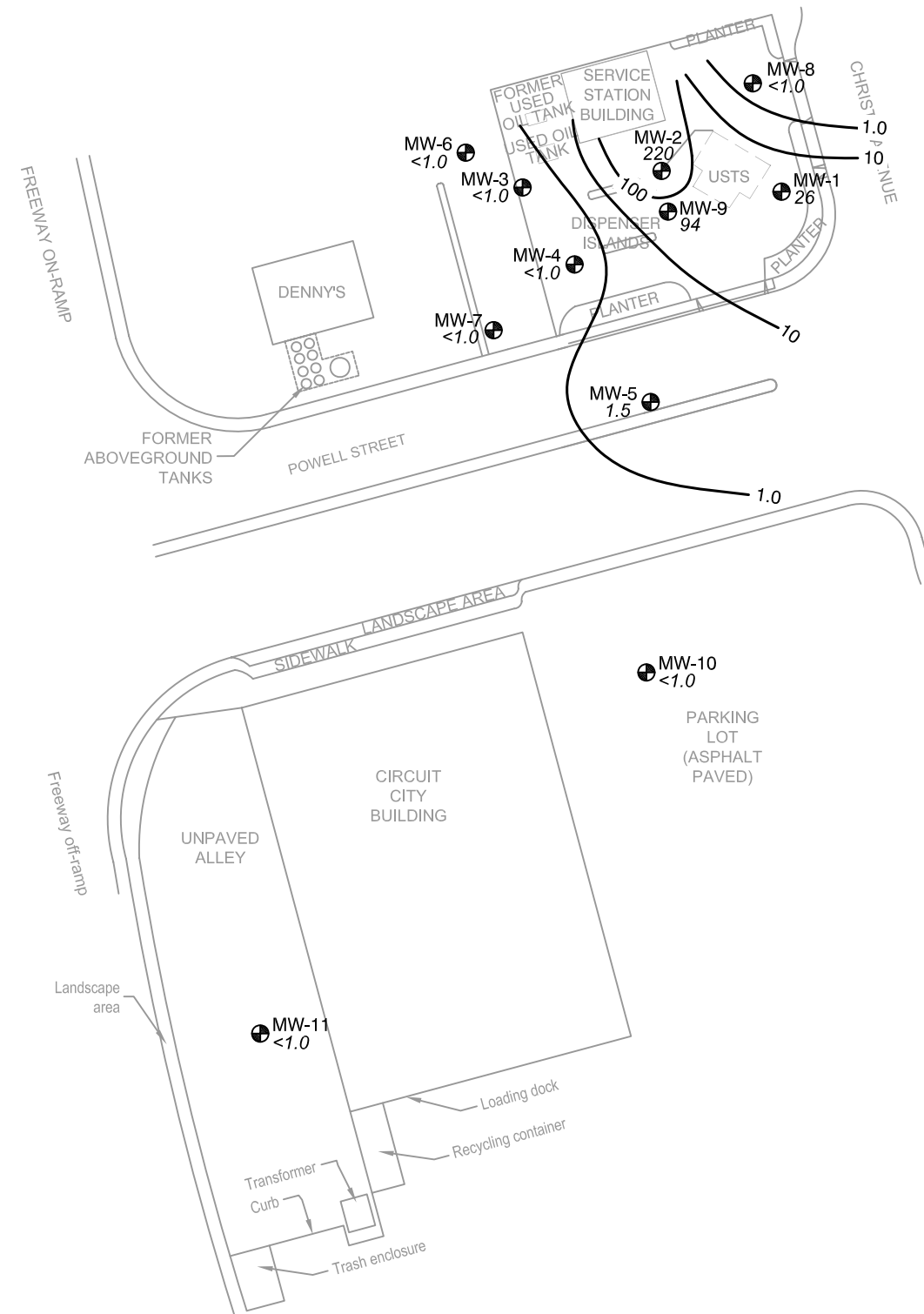
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SITE DIMENSIONS AND FIGURES FACILITY LOCATIONS NOT VERIFIED.



FOR: 76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA		GRO ISOCONCENTRATION CONTOUR MAP SEPTEMBER 26, 2008		FIGURE: 2
JOB NUMBER: 77BP.11126.02 77CP.01731.41	DRAWN BY: MDR/STA			CHECKED BY: KC

LEGEND:

- MW-1  GROUNDWATER MONITORING WELL
-  10 BENZENE ISOCONCENTRATION CONTOUR
-  94 BENZENE CONCENTRATION ($\mu\text{g/L}$)
- $\mu\text{g/L}$ MICROGRAMS PER LITER



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FOR:
76 (FORMER BP)
SERVICE STATION NO. 11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

**BENZENE ISOCONCENTRATION
CONTOUR MAP
SEPTEMBER 26, 2008**

FIGURE:
3

JOB NUMBER:
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77CP.01731.41


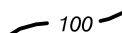
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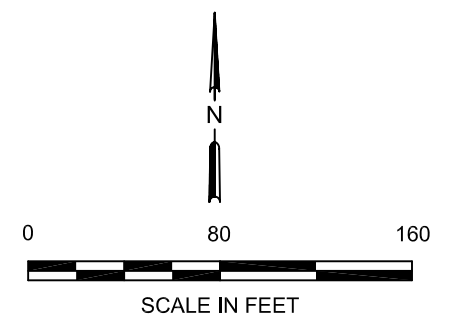
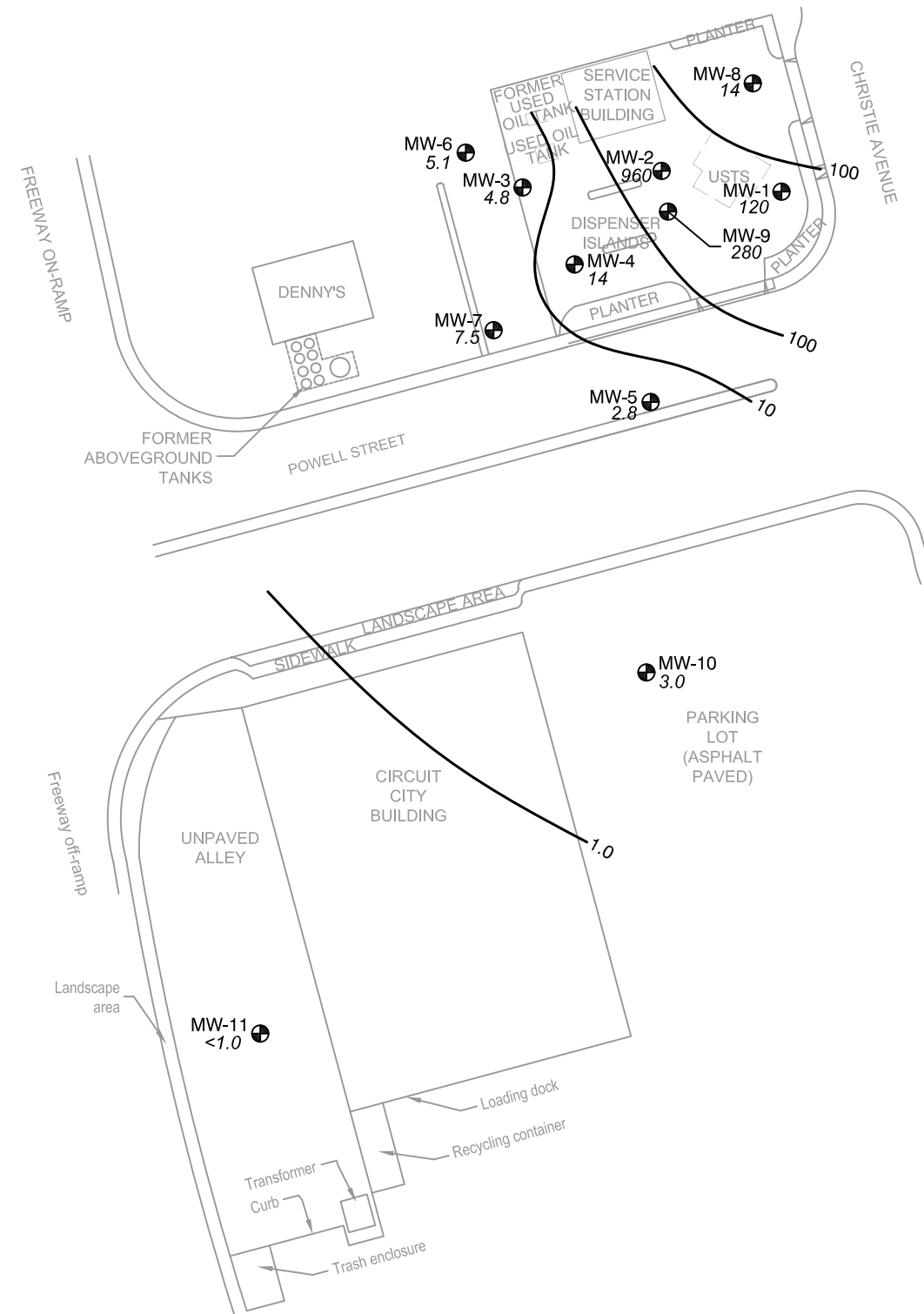
CHECKED BY:
KC

APPROVED BY:
BS

DATE:
10/30/08

LEGEND:

- MW-1  GROUNDWATER MONITORING WELL
-  100 MTBE ISOCONCENTRATION CONTOUR
- 14 MTBE CONCENTRATION (µg/L)
- MTBE METHYL TERTIARY BUTYL ETHER
- µg/L MICROGRAMS PER LITER



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FOR:
76 (FORMER BP)
SERVICE STATION NO. 11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

**MTBE ISOCONCENTRATION
CONTOUR MAP
SEPTEMBER 26, 2008**

FIGURE:
4

JOB NUMBER:
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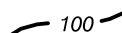

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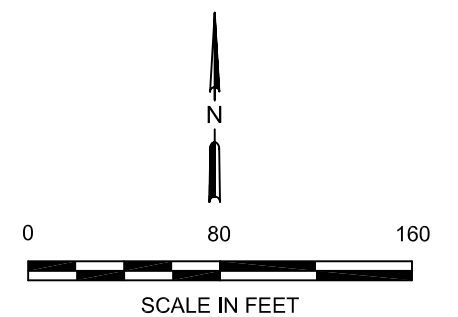
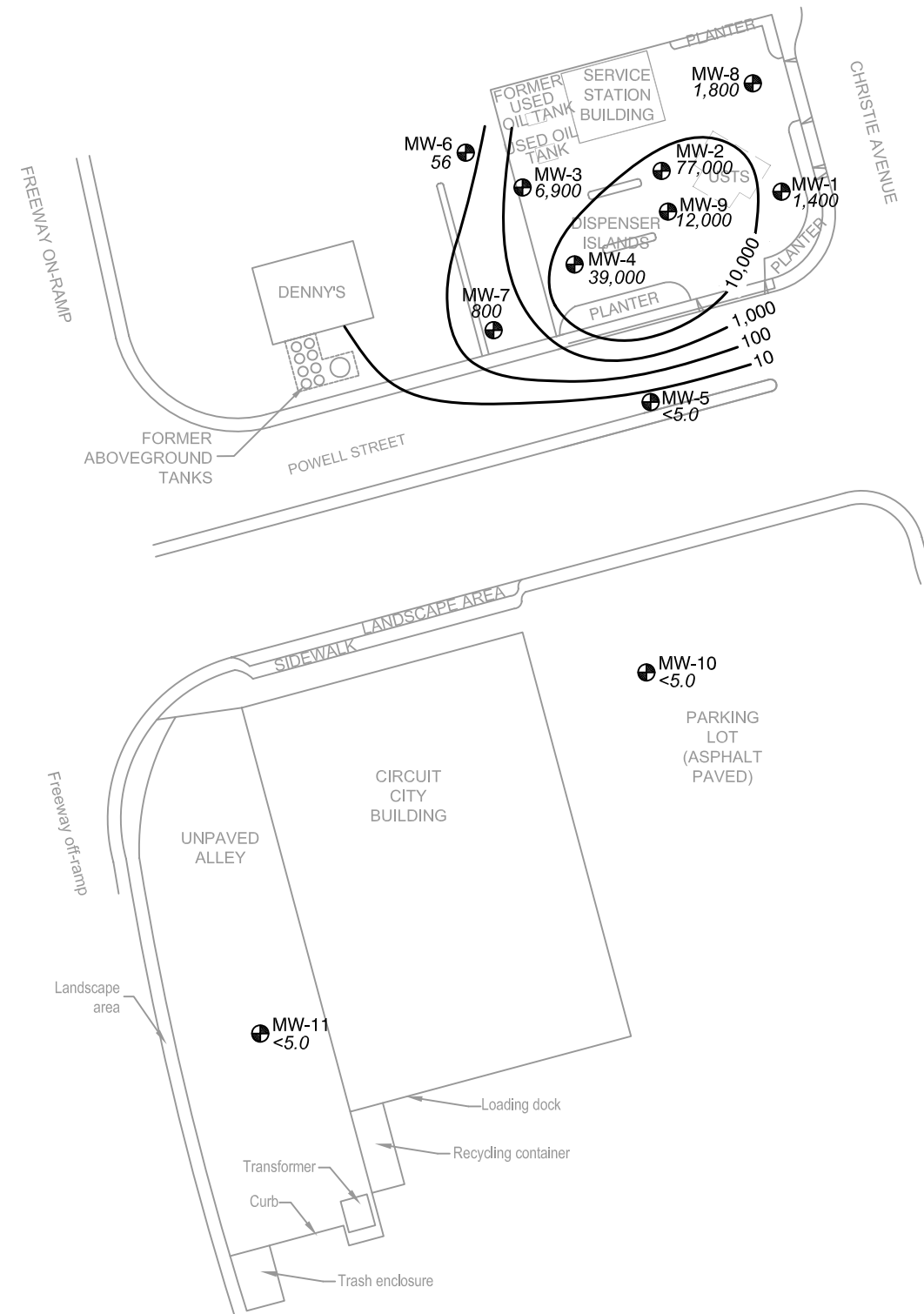
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KC

APPROVED BY:
BS

DATE:
10/30/08

LEGEND:

- MW-1  GROUNDWATER MONITORING WELL
-  100 TBA ISOCONCENTRATION CONTOUR
-  56 TBA CONCENTRATION (µg/L)
- TBA TERTIARY BUTLY ALCOHOL
- µg/L MICROGRAMS PER LITER



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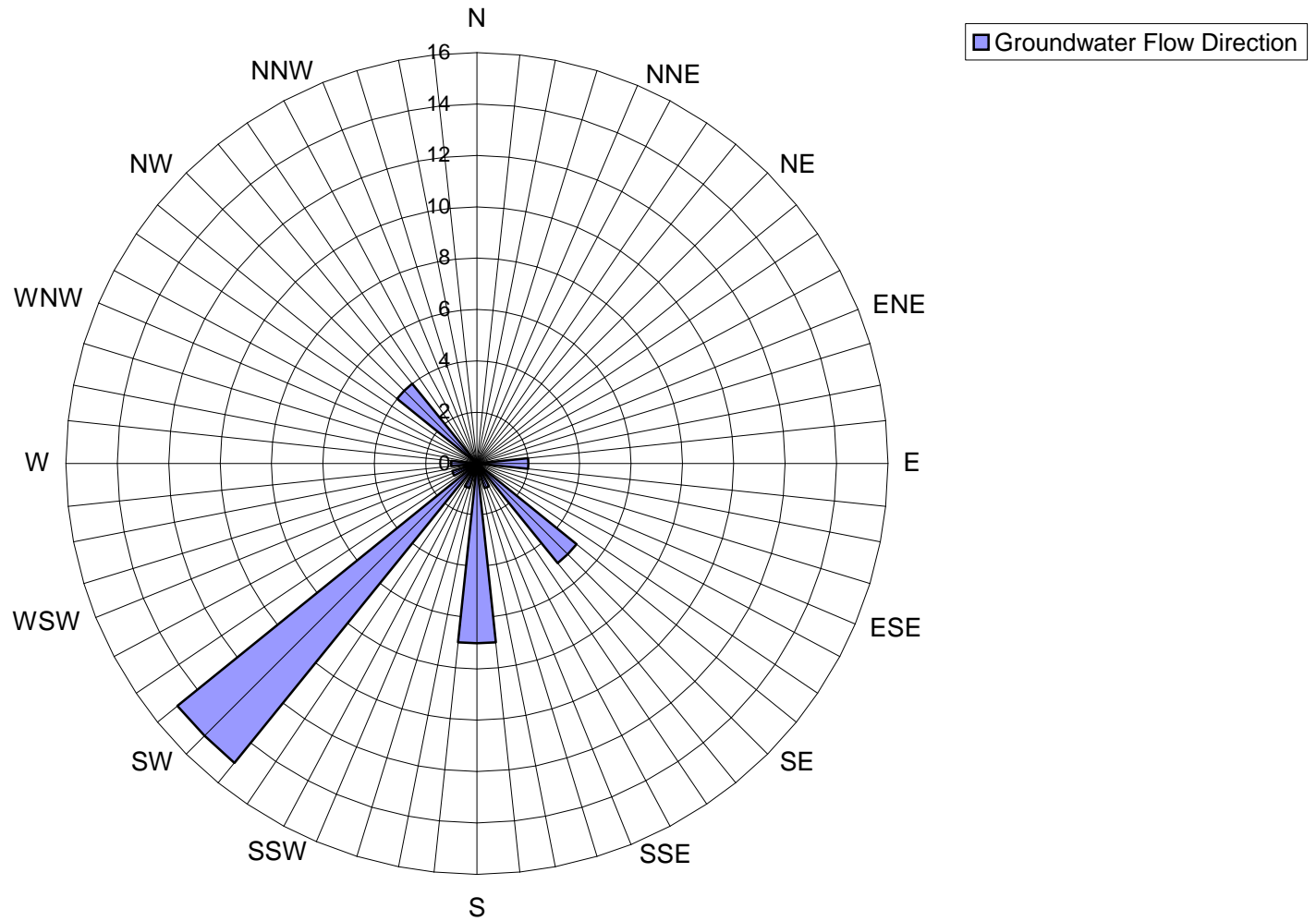
FOR: 76 (FORMER BP) SERVICE STATION NO. 11126 1700 POWELL STREET EMERYVILLE, CALIFORNIA		TBA ISOCONCENTRATION CONTOUR MAP SEPTEMBER 26, 2008		FIGURE: 5
JOB NUMBER: 77BP.11126.02 77CP.01731.41	DRAWN BY: MDR/STA			CHECKED BY: KC

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 Third Quarter 2008.



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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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)	D.O. (mg/L)	Comments
MW-1	09/26/08		10.16	4.29	0.00	5.87	1,800	-	-	26	6.1	<1.0	10	120	1,400	<1.0	<1.0	1.9	<250	<1.0	<1.0	-	
MW-2	09/26/08		11.39	5.81	0.00	5.58	4,800	-	-	220	12	20	42	960	77,000	<1.0	2.8	42	<250	<1.0	<1.0	-	
MW-3	09/26/08		10.73	6.46	0.00	4.27	120	3,000	<5,000	<1.0	<1.0	<1.0	<1.0	4.8	6,900	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
MW-4	09/26/08		10.58	7.37	0.00	3.21	370	-	-	<1.0	<1.0	<1.0	<1.0	14	39,000	<1.0	2.8	<1.0	<250	<1.0	<1.0	-	
MW-5	09/26/08		10.18	5.26	0.00	4.92	3,400	-	-	1.5	<1.0	<1.0	2.2	2.8	<5.0	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
MW-6	09/26/08		11.01	6.86	0.00	4.15	<50	-	-	<1.0	<1.0	<1.0	<1.0	5.1	56	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
MW-7	09/26/08		10.11	6.52	0.00	3.59	<50	-	-	<1.0	<1.0	<1.0	<1.0	7.5	800	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
MW-8	09/26/08		11.08	5.43	0.00	5.65	190	-	-	<1.0	<1.0	<1.0	<1.0	14	1,800	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
MW-9	09/26/08		10.55	5.07	0.00	5.48	10,000	-	-	94	11	26	35	280	12,000	<1.0	<1.0	6.2	<250	<1.0	<1.0	-	
MW-10	09/26/08		12.53	9.91	0.00	2.62	<50	-	-	<1.0	<1.0	<1.0	<1.0	3.0	<5.0	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
MW-11	09/26/08		14.55	10.51	0.00	4.04	<50	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	
QCTB	09/26/08		-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-	-	

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
- D.O. = Dissolved Oxygen; rounded to the nearest tenth
- SPH = Separate-phase hydrocarbons
- TOC = Top of casing (surveyed)
- Calc. GW Elev. = Calculated groundwater elevation = TOC - Depth to Water + 0.75*(Measured SPH Thickness);
- ft-MSL = feet above mean sea level
- mg/L = Milligrams per liter
- µg/L = Micrograms per liter
- < = Analyte was not detected above the specified method detection limit (MDL)
- = 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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	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	6,111	-	-	-	-	-	-	-	-	-	-
	02/15/94			4.98	0.00	2.78	17,000	-	-	4,200	510	360	1,600	5,495	-	-	-	-	-	-	-	-	-	3.9
	05/11/94			4.55	0.00	3.21	5,500	-	-	2,900	37	56	64	705	-	-	-	-	-	-	-	-	-	8.0
	08/01/94	DUP		-	-	-	16,000	-	-	3,600	750	510	2,800	9,800	-	-	-	-	-	-	-	-	-	-
	08/01/94			5.51	0.00	2.25	15,000	-	-	3,600	740	510	2,800	9,718	-	-	-	-	-	-	-	-	-	2.9
	10/18/94	DUP		-	-	-	16,000	-	-	1,900	64	170	950	-	-	-	-	-	-	-	-	-	-	-
	10/18/94			5.11	0.00	2.65	16,000	-	-	1,800	61	160	890	15,668	-	-	-	-	-	-	-	-	-	2.9
	01/13/95	DUP		-	-	-	590	-	-	88	0.70	<0.50	55	-	-	-	-	-	-	-	-	-	-	-
	01/13/95			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	247	8,700	-	-	-	-	-	-	-	-	-	3.2
	04/24/96			4.00	0.00	3.76	2,000	-	-	510	33	61	228	4,500	-	-	-	-	-	-	-	-	-	7.5
	07/15/96			4.30	0.00	3.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/16/96	DUP		-	-	-	12,000	-	-	2,800	160	390	1,610	63,000	-	-	-	-	-	-	-	-	-	-
	07/16/96			-	-	-	12,000	-	-	2,800	170	390	1,630	64,000	-	-	-	-	-	-	-	-	-	7.9
	07/30/96			4.64	0.00	3.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/12/96			-	-	-	11,000	-	-	2,500	160	<10	1,740	440,000	-	-	-	-	-	-	-	-	-	7.0
	11/04/96			5.98	0.00	1.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/05/96			-	-	-	53,000	-	-	1,300	43	100	349	42,000	-	-	-	-	-	-	-	-	-	6.6
	05/17/97			4.65	0.00	3.11	52,000	-	-	1,958	55	305	1,216	140,198	-	-	-	-	-	-	-	-	-	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	-	-	1,160	47	155	292	3,900	-	-	-	-	-	-	-	-	-	-
	03/29/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	06/27/01			5.49	0.00	2.27	6,100	-	-	1,200	13	17	78	1,780	-	-	-	-	-	-	-	-	-	-
	09/19/01			6.19	0.00	1.57	1,800	-	-	102	<12.5	<12.5	<37.5	1,090	-	-	-	-	-	-	-	-	-	-

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-1	12/28/01		7.76	5.27	0.00	2.49	4,000	-	-	540	12	20	65	1,120	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used Past holding time Well purged dry
	03/12/02			5.68	0.00	2.08	3,700	-	-	491	8.4	12	27	1,020	-	-	-	-	-	-	-	-	-	-	
	06/13/02			5.54	0.00	2.22	1,900	-	-	255	<12.5	<12.5	<25	6,490	-	-	-	-	-	-	-	-	-	-	
	09/06/02			5.56	0.00	2.20	1,100	-	-	170	5.1	2.2	20	550	-	-	-	-	-	-	-	-	-	-	
	12/13/02			5.45	0.00	2.31	2,700	-	-	610	10	18	67	470	-	-	-	-	-	-	-	-	-	-	
	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	-	-	-	
	09/13/07			4.88	0.00	5.28	540	-	-	74	2.4	5.4	10	59	1,300	<4.0	<2.0	<2.0	1,100	<2.0	<2.0	-	-	-	
	11/21/07			3.70	0.00	6.46	1,800	-	-	67	6.2	3.5	12	200	1,300	<4.0	<2.0	2.7	<1,000	<2.0	<2.0	-	-	-	
	02/29/08			3.49	0.00	6.67	970	-	-	100	1.9	37	32	25	1,200	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	-	
	05/23/08			4.26	0.00	5.90	1,300	-	-	170	3.5	15	26	120	1,800	<1.0	<0.50	1.4	<250	<0.50	<0.50	-	-	-	
	09/26/08			4.29	0.00	5.87	1,800	-	-	26	6.1	<1.0	10	120	1,400	<1.0	<1.0	1.9	<250	<1.0	<1.0	-	-	-	
MW-2	11/04/92	DUP	8.56	-	-	-	12,000	-	-	3,200	980	<0.50	1,900	-	-	-	-	-	-	-	-	-	-	-	
	11/04/92			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	442	-	-	-	-	-	-	-	-	-	-	
	02/15/94	DUP		5.56	0.00	3.00	2,000	-	-	430	270	28	390	127	-	-	-	-	-	-	-	-	-	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			5.17	0.00	3.39	14,000	-	-	3,900	1,200	440	1,900	953	-	-	-	-	-	-	-	-	-	8.9	
	08/01/94			5.43	0.00	3.13	8,200	-	-	3,000	420	230	680	1,676	-	-	-	-	-	-	-	-	-	2.6	
	10/18/94			5.71	0.00	2.85	9,000	-	-	2,000	140	150	420	2,417	-	-	-	-	-	-	-	-	-	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			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	-	-	-	-	-	-	-	-	-	-	-	

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

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-2	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			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	137	93	-	-	-	-	-	-	-	-	-	-	
	02/05/96			5.10	0.00	3.46	1,200	-	-	320	220	26	187	99	-	-	-	-	-	-	-	-	-	2.2	
	04/24/96	DUP		4.95	0.00	3.61	<500	-	-	70	22	<10	61	<50	-	-	-	-	-	-	-	-	-	7.0	
	04/24/96			-	-	-	<500	-	-	100	30	<10	71	<100	-	-	-	-	-	-	-	-	-	-	
	07/15/96			5.40	0.00	3.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	07/16/96			-	-	-	12,000	-	-	3,300	1,400	250	2,610	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	2,240	1,100	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	7,200	-	-	1,400	230	38	2,110	1,100	-	-	-	-	-	-	-	-	-	7.4	
	05/17/97			5.77	0.00	2.79	570	-	-	42	<5.0	5.0	60	210	-	-	-	-	-	-	-	-	-	6.9	
	08/11/97			5.71	0.00	2.85	6,300	-	-	1,800	130	86	397	2,400	-	-	-	-	-	-	-	-	-	8.5	
	11/17/97			6.91	0.00	1.65	2,400	-	-	220	30	33	259	130	-	-	-	-	-	-	-	-	-	7.9	
	01/29/98			4.61	0.00	3.95	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	6.2	
	06/22/98			4.80	0.00	3.76	4,200	-	-	640	150	120	650	560	-	-	-	-	-	-	-	-	-	5.4	
	12/30/98			5.21	0.00	3.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/23/99			5.30	0.00	3.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			4.75	0.00	3.81	3,800	-	-	760	19	210	960	910	-	-	-	-	-	-	-	-	-	-	
	12/28/99			4.51	0.00	4.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			4.21	0.00	4.35	2,500	-	-	780	17	44	270	2,800	-	-	-	-	-	-	-	-	-	-	
	05/26/00			4.66	0.00	3.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/06/00			4.71	0.00	3.85	3,700	-	-	1,200	5.5	12	170	12,000	-	-	-	-	-	-	-	-	-	-	
	09/15/00			4.74	0.00	3.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			4.79	0.00	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/27/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/19/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/12/02			4.25	0.00	4.31	26,000	-	-	1,160	4.4	61	171	37,300	-	-	-	-	-	-	-	-	-	-	
	06/13/02			4.94	0.00	3.62	18,000	-	-	578	<50	<50	<100	84,600	-	-	-	-	-	-	-	-	-	-	
	09/06/02			5.23	0.00	3.33	26,000	-	-	440	<50	<50	<50	45,000	-	-	-	-	-	-	-	-	-	-	
	12/13/02			4.94	0.00	3.62	69,000	-	-	1,200	<500	<500	<500	98,000	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			4.14	0.00	4.42	78,000	-	-	1,100	<500	<500	<500	81,000	-	-	-	-	-	-	-	-	-	-	
	06/06/03			4.66	0.00	3.90	120,000	-	-	1,100	<1,000	<1,000	<1,000	72,000	<40,000	<1,000	<1,000	1,300	<200,000	-	-	-	-	-	
	08/07/03			4.90	Sheen	3.66	71,000	-	-	590	<500	<500	<500	83,000	45,000	<500	<500	1,300	<100,000	<500	<500	-	-	-	
	11/20/03			4.59	0.00	3.97	22,000	-	-	720	<100	<100	<100	18,000	48,000	<100	<100	200	<20,000	-	-	-	-	-	
	04/28/04			4.37	0.00	4.19	<25,000	-	-	690	<250	<250	<250	31,000	59,000	<250	<250	<250	<50,000	<250	<250	-	-	-	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments
MW-2	08/26/04		8.56	4.59	0.00	3.97	140,000	-	-	8,200	18,000	4,200	19,000	11,000	<10,000	<250	<250	320	<50,000	<250	<250	-	-	
	12/01/04			4.79	0.00	3.77	98,000	-	-	8,400	13,000	4,600	21,000	10,000	<4,000	<100	<100	230	<20,000	<100	<100	-	-	
	02/02/05			4.27	Sheen	4.29	92,000	-	-	6,600	9,900	4,400	18,000	10,000	4,000	<100	<100	260	<20,000	<100	<100	-	-	
	04/25/05		11.39	4.00	0.00	7.39	80,000	-	-	6,700	4,900	4,400	17,000	8,200	3,700	<50	<50	220	<10,000	<50	<50	-	-	
	09/30/05			4.86	0.00	6.53	98,000	-	-	7,700	7,400	4,700	20,000	16,000	4,700	<50	<50	270	<5,000	<50	<50	-	-	
	12/28/05			4.28	0.00	7.11	210,000	-	-	15,000	21,000	7,300	31,000	22,000	6,300	<200	<100	410	<20,000	<100	-	-	-	
	03/23/06			3.60	0.00	7.79	79,000	-	-	9,100	12,000	4,300	17,000	13,000	5,800	<200	<100	290	<20,000	<100	<100	-	-	
	06/05/06			4.28	Sheen	7.11	79,000	-	-	9,700	8,700	4,900	20,000	8,000	3,300	<100	<50	280	<10,000	<50	<50	-	-	
	09/19/06			4.61	0.00	6.78	68,000	-	-	12,000	9,300	4,100	14,000	16,000	4,800	<100	<50	370	<25,000	<50	<50	-	-	
	12/01/06			4.55	0.00	6.84	61,000	-	-	15,000	6,900	4,400	17,000	10,000	3,900	<100	<50	270	<25,000	<50	<50	-	-	
	03/01/07			4.14	0.00	7.25	80,000	-	-	9,300	5,500	4,100	15,000	8,300	2,700	<100	<50	210	<25,000	<50	<50	-	-	
	06/01/07			4.34	0.00	7.05	120,000	-	-	12,000	6,400	4,200	11,000	17,000	4,900	260	<100	310	<50,000	<100	<100	-	-	
	09/13/07			5.35	0.00	6.04	<5,000	-	-	770	<50	140	<100	2,300	42,000	<100	<50	50	<25,000	<50	<50	-	-	
	11/21/07			5.19	0.00	6.20	27,000	-	-	4,500	220	1,600	2,800	5,200	5,000	<100	<50	160	<25,000	<50	<50	-	-	
	02/29/08			4.41	0.00	6.98	44,000	-	-	6,100	320	3,800	6,600	4,900	2,500	<100	<50	120	<25,000	<50	<50	-	-	
	05/23/08			5.25	0.00	6.14	13,000	-	-	1,700	<50	300	210	2,500	29,000	140	<50	60	<25,000	<50	<50	-	-	
09/26/08			5.81	0.00	5.58	4,800	-	-	220	12	20	42	960	77,000	<1.0	2.8	42	<250	<1.0	<1.0	-	-		
MW-3	11/04/92		8.25	6.38	0.00	1.87	200	690	<5,000	1.6	<0.50	<0.50	1.1	-	-	-	-	-	-	-	-	-	ND	-
	10/12/93	DUP		5.84	0.00	2.41	270	2,100	<5,000	5.0	0.70	<0.50	2.6	96	-	-	-	-	-	-	-	-	ND	-
	10/12/93			-	-	-	150	-	-	5.6	0.60	<0.50	1.6	-	-	-	-	-	-	-	-	-	-	-
	02/15/94			6.60	0.00	1.65	140	2.3	90	5.7	<0.50	<0.50	<0.50	30	-	-	-	-	-	-	-	-	ND	3.9
	05/11/94			5.86	0.00	2.39	190	2,500	<5,000	2.7	1.9	<0.50	1.9	51	-	-	-	-	-	-	-	-	ND	9.2
	08/01/94			6.13	0.00	2.12	120	1,300	<5,000	1.3	<0.50	0.50	1.1	18	-	-	-	-	-	-	-	-	ND	2.9
	10/18/94			6.39	0.00	1.86	100	2,200	<5,000	2.3	<0.50	<0.50	<0.50	21	-	-	-	-	-	-	-	-	ND	3.6
	01/13/95			5.47	0.00	2.78	<50	970	-	0.80	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	ND	7.7
	04/13/95			5.17	0.00	3.08	530	<500	2,100	8.7	1.9	<0.50	3.9	-	-	-	-	-	-	-	-	-	ND	8.4
	07/11/95			5.37	0.00	2.88	78	2,100	1,900	0.57	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	ND	8.3
	11/02/95			6.29	0.00	1.96	250	2,000	1,400	0.73	<0.50	<0.50	1.8	270	-	-	-	-	-	-	-	-	ND	8.3
	02/05/96			5.80	0.00	2.45	<50	1,600	9,000	<0.50	<1.0	<1.0	2.7	11	-	-	-	-	-	-	-	-	ND	3.5
	04/24/96			5.69	0.00	2.56	<50	2,800	6,000	<5.0	<10	<10	<10	150	-	-	-	-	-	-	-	-	ND	8.6
	07/15/96			6.18	0.00	2.07	<250	3,700	1,000	<2.5	<5.0	<5.0	<5.0	<50	-	-	-	-	-	-	-	-	ND	7.7
	07/30/96			6.04	0.00	2.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/04/96			7.84	0.00	0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/05/96			-	-	-	90	890	2,000	<0.50	<1.0	<1.0	<1.0	30	-	-	-	-	-	-	-	-	ND	6.8
	05/17/97			6.49	0.00	1.76	<50	2,100	700	<0.50	<1.0	<1.0	<1.0	52	-	-	-	-	-	-	-	-	ND	6.3
	08/11/97			6.15	0.00	2.10	490	1,900	<5,000	<2.5	<5.0	<5.0	<5.0	170	-	-	-	-	-	-	-	-	ND	7.4
	11/17/97			7.15	0.00	1.10	120	2,500	<5,000	<0.50	<1.0	<1.0	<1.0	46	-	-	-	-	-	-	-	-	ND	7.0
01/29/98			5.10	0.00	3.15	270	1,700	2,000	0.53	<1.0	<1.0	<1.0	330	-	-	-	-	-	-	-	-	ND	6.4	
06/22/98			5.50	0.00	2.75	200	2,200	<5.0	<0.50	<1.0	<1.0	<1.0	130	-	-	-	-	-	-	-	-	ND	5.5	
12/30/98			6.68	0.00	1.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-4	02/15/94		8.12	6.61	0.00	1.51	110	-	-	4.4	0.70	<0.50	2.5	118	-	-	-	-	-	-	-	-	-	4.3	
	05/11/94			5.89	0.00	2.23	120	-	-	0.50	0.80	<0.50	<0.50	137	-	-	-	-	-	-	-	-	-	9.3	
	08/01/94			6.87	0.00	1.25	140	-	-	0.70	2.0	5.2	15	138	-	-	-	-	-	-	-	-	-	3.3	
	10/18/94			6.62	0.00	1.50	140	-	-	3.5	<0.50	0.50	<0.50	197	-	-	-	-	-	-	-	-	-	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	<1.0	<1.0	<1.0	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	4,220	-	-	-	-	-	-	-	-	-	-	
	09/19/01			7.87	0.00	0.25	2,500	-	-	<5.0	<5.0	<5.0	<15	3,340	-	-	-	-	-	-	-	-	-	-	
	12/28/01			7.80	0.00	0.32	4,400	-	-	<5.0	<5.0	<5.0	<10	5,330	-	-	-	-	-	-	-	-	-	-	
	03/12/02			4.53	0.00	3.59	6,400	-	-	72	<5.0	<5.0	<10	8,440	-	-	-	-	-	-	-	-	-	-	
	06/13/02			6.21	0.00	1.91	1,800	-	-	7.5	<5.0	5.0	13	6,870	-	-	-	-	-	-	-	-	-	-	
	09/06/02			7.78	0.00	0.34	<2000	-	-	<20	<20	<20	<20	9,600	-	-	-	-	-	-	-	-	-	-	
	12/13/02			7.87	0.00	0.25	5,600	-	-	<50	<50	<50	<50	8,600	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			4.84	0.00	3.28	<10,000	-	-	<100	<100	<100	<100	8,000	-	-	-	-	-	-	-	-	-	-	
	06/06/03			7.98	0.00	0.14	13,000	-	-	<50	<50	<50	<50	6,800	2,500	<50	<50	190	<10,000	-	-	-	-	-	
	08/07/03			7.24	0.00	0.88	6,200	-	-	<50	<50	<50	<50	6,600	2,400	<50	<50	160	<10,000	<50	<50	-	-	-	
	11/20/03			7.02	0.00	1.10	10,000	-	-	<100	<100	<100	<100	11,000	<4,000	<100	<100	310	<20,000	-	-	-	-	-	

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

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-4	04/28/04		8.12	4.81	0.00	3.31	<25,000	-	-	<250	<250	<250	<250	3,600	15,000	<250	<250	<250	<50,000	<250	<250	-	-		
	08/26/04			5.65	0.00	2.47	<2,500	-	-	<25	<25	<25	<25	1,800	16,000	<25	<25	60	-	<25	<25	-	-		
	12/01/04			7.34	0.00	0.78	1,100	-	-	<10	<10	<10	<10	450	19,000	<10	<10	10	<2,000	<10	<10	-	-		
	02/02/05			7.61	0.00	0.51	1,000	-	-	<5.0	<5.0	<5.0	<5.0	410	19,000	<5.0	<5.0	10	<1,000	<5.0	<5.0	-	-		
	04/25/05		10.58	7.25	0.00	3.33	720	-	-	8.0	5.3	<5.0	16	170	18,000	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	-	-		
	09/30/05			7.72	0.00	2.86	<2,500	-	-	63	58	46	140	110	30,000	<25	<25	<25	<2,500	<25	<25	-	-		
	12/28/05			7.48	0.00	3.10	<2,500	-	-	<25	<25	<25	<50	34	27,000	<50	<25	<25	<5,000	<25	-	-	-		
	03/23/06			4.42	0.00	6.16	<2,500	-	-	<25	<25	<25	<50	120	34,000	<50	<25	<25	<5,000	<25	<25	-	-		
	06/05/06			4.97	0.00	5.61	<5,000	-	-	<50	<50	<50	<100	<50	34,000	<100	<50	<50	<10,000	<50	<50	-	-	Well purged dry	
	09/19/06			5.45	0.00	5.13	<5,000	-	-	<50	<50	<50	<100	110	27,000	<100	<50	<50	<25,000	<50	<50	-	-	Well purged dry	
	12/01/06			5.14	0.00	5.44	<5,000	-	-	<50	<50	<50	<100	68	31,000	<100	<50	<50	<25,000	<50	<50	-	-	Well purged dry	
	03/01/07			7.60	0.00	2.98	<5,000	-	-	<50	<50	<50	<100	<50	31,000	<100	<50	<50	<25,000	<50	<50	-	-		
	06/01/07			5.21	0.00	5.37	2,700	-	-	<25	<25	<25	<50	31	32,000	<50	<25	<25	<13,000	<25	<25	-	-		
	09/13/07			6.45	0.00	4.13	<2,500	-	-	<25	<25	<25	<50	<25	10,000	<50	<25	<25	<13,000	<25	<25	-	-		
	11/21/07			5.68	0.00	4.90	<2,500	-	-	<25	<25	<25	<50	<25	38,000	<50	<25	<25	<13,000	<25	<25	-	-		
	02/29/08			6.44	0.00	4.14	<5,000	-	-	<50	<50	<50	<100	<50	32,000	<100	<50	<50	<25,000	<50	<50	-	-		
05/23/08			6.01	0.00	4.57	<5000	-	-	<50	<50	<50	<100	<50	42,000	<100	<50	<50	<25,000	<50	<50	-	-			
09/26/08			7.37	0.00	3.21	370	-	-	<1.0	<1.0	<1.0	<1.0	14	39,000	<1.0	2.8	<1.0	<250	<1.0	<1.0	-	-			
MW-5	10/12/93		7.69	6.01	0.00	1.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	10/13/93			-	-	-	2,300	-	-	160	10	<0.50	26	-	-	-	-	-	-	-	-	-	-		
	02/15/94			5.74	0.00	1.95	5,100	-	-	710	16	33	35	153	-	-	-	-	-	-	-	-	-	4.0	
	05/11/94			5.28	0.00	2.41	11,000	-	-	1,100	39	110	57	165	-	-	-	-	-	-	-	-	-	-	8.0
	08/01/94			5.84	0.00	1.85	9,000	-	-	730	35	61	41	196	-	-	-	-	-	-	-	-	-	-	2.6
	10/18/94			6.01	0.00	1.68	7,800	-	-	330	30	27	27	559	-	-	-	-	-	-	-	-	-	-	5.6
	01/13/95			4.74	0.00	2.95	<500	-	-	290	6.0	<5.0	18	-	-	-	-	-	-	-	-	-	-	-	6.8
	04/13/95			5.50	0.00	2.19	9,100	-	-	400	15	52	27	-	-	-	-	-	-	-	-	-	-	-	7.4
	07/11/95			5.75	0.00	1.94	7,300	-	-	390	13	28	23	-	-	-	-	-	-	-	-	-	-	-	7.2
	11/03/95			6.65	0.00	1.04	7,200	-	-	270	15	38	23	200	-	-	-	-	-	-	-	-	-	-	8.4
	02/05/96			4.83	0.00	2.86	4,600	-	-	370	15	53	28	<50	-	-	-	-	-	-	-	-	-	-	1.9
	04/24/96			6.09	0.00	1.60	3,000	-	-	180	<10	32	14	<100	-	-	-	-	-	-	-	-	-	-	8.1
	07/15/96			6.57	0.00	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	07/16/96			-	-	-	<50	-	-	190	<10	31	16	<100	-	-	-	-	-	-	-	-	-	-	8.3
	07/30/96			5.61	0.00	2.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	08/12/96			-	-	-	2,000	-	-	150	12	25	18	<50	-	-	-	-	-	-	-	-	-	-	7.6
	11/04/96			8.25	0.00	-0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/05/96			-	-	-	5,200	-	-	42	5.5	13	<5.0	1,700	-	-	-	-	-	-	-	-	-	-	7.4
	05/17/97			6.95	0.00	0.74	80	-	-	0.56	<1.0	<1.0	<1.0	46	-	-	-	-	-	-	-	-	-	-	6.7
	08/11/97			6.72	0.00	0.97	2,700	-	-	20	12	6.7	9.7	1,900	-	-	-	-	-	-	-	-	-	-	8.5
11/17/97			9.49	0.00	-1.80	8,400	-	-	25	12	8.7	5.4	13,000	-	-	-	-	-	-	-	-	-	-	7.9	
01/29/98			7.88	0.00	-0.19	110,000	-	-	2,500	110	180	589	180,000	-	-	-	-	-	-	-	-	-	-	6.8	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-5	06/22/98		7.69	7.40	0.00	0.29	4,400	-	-	47	10	29	21	47	-	-	-	-	-	-	-	-	-	6.6	
	12/30/98			6.13	0.00	1.56	6,000	-	-	18	9.1	22	16	63	-	-	-	-	-	-	-	-	-	-	
	03/09/99			4.79	0.00	2.90	4,600	-	-	8.8	5.5	12	11	24	-	-	-	-	-	-	-	-	-	-	
	06/23/99			5.95	0.00	1.74	3,400	-	-	1,500	8.9	54	87	7,500	-	-	-	-	-	-	-	-	-	-	
	09/23/99			5.43	0.00	2.26	2,600	-	-	510	14	140	650	580	-	-	-	-	-	-	-	-	-	-	
	12/28/99			5.30	0.00	2.39	3,500	-	-	900	18	57	140	4,800	-	-	-	-	-	-	-	-	-	-	
	03/22/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/26/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/06/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/27/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/19/01	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/01			4.65	0.00	3.04	4,600	-	-	20	25	16	57	72	-	-	-	-	-	-	-	-	-	-	
	03/12/02			5.35	0.00	2.34	5,100	-	-	45	14	22	39	32	-	-	-	-	-	-	-	-	-	-	
	06/13/02			5.34	0.00	2.35	2,900	-	-	32	<12.5	<12.5	<25	616	-	-	-	-	-	-	-	-	-	-	
	09/06/02			5.46	0.00	2.23	3,400	-	-	23	5.5	<5.0	11	230	-	-	-	-	-	-	-	-	-	-	
	12/13/02			5.47	0.00	2.22	2,500	-	-	12	9.3	4.6	8.8	110	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			5.29	0.00	2.40	2,800	-	-	11	5.4	9.7	12	6.4	-	-	-	-	-	-	-	-	-	-	
	06/06/03			5.30	0.00	2.39	3,200	-	-	9.1	<5.0	7.6	9.3	<5.0	<200	<5.0	<5.0	<5.0	<1,000	-	-	-	-	-	
	08/07/03			5.33	0.00	2.36	2,200	-	-	7.3	<5.0	<5.0	9.1	18	<200	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	-	-	-	
	11/20/03			5.39	0.00	2.30	3,500	-	-	12	5.4	6.4	12	12	<100	<2.5	<2.5	<2.5	<500	-	-	-	-	-	
	04/28/04			5.53	0.00	2.16	5,700	-	-	7.8	4.2	5.2	11	11	<100	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	08/26/04			5.42	0.00	2.27	2,400	-	-	23	4.0	3.6	11	74	<100	<2.5	<2.5	<2.5	-	<2.5	<2.5	-	-	-	
	12/01/04			5.38	0.00	2.31	4,300	-	-	11	<5.0	5.5	15	<5.0	<200	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	-	-	-	
	02/02/05			5.48	0.00	2.21	4,000	-	-	8.4	4.8	4.0	10	11	<100	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	04/25/05		10.18	5.52	0.00	4.66	5,200	-	-	7.6	4.0	4.3	9.9	12	<100	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	09/30/05			5.04	0.00	5.14	4,100	-	-	5.3	2.7	2.1	8.0	16	27	<1.0	<1.0	<1.0	<100	<1.0	<1.0	-	-	-	
	12/28/05			4.85	0.00	5.33	7,700	-	-	7.7	3.3	2.9	7.1	3.8	<20	14	<2.0	<2.0	<400	<2.0	-	-	-	-	
	03/23/06			5.07	0.00	5.11	5,700	-	-	11	3.3	2.4	8.1	8.6	37	<4.0	<2.0	<2.0	<400	<2.0	<2.0	-	-	-	
	06/05/06			5.39	Sheen	4.79	5,900	-	-	36	5.0	3.7	15	11	90	<5.0	<2.5	<2.5	<500	<2.5	<2.5	-	-	-	
	09/19/06			4.75	0.00	5.43	4,600	-	-	6.7	<2.5	<2.5	<5.0	12	53	<5.0	<2.5	<2.5	<1300	<2.5	<2.5	-	-	-	
	12/01/06			5.29	0.00	4.89	4,400	-	-	5.0	<2.5	<2.5	5.8	14	<25	<5.0	<2.5	2.7	<1,300	<2.5	<2.5	-	-	-	
	03/01/07			5.01	0.00	5.17	6,400	-	-	6.2	3.0	<2.5	8.7	<2.5	<25	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	-	
	06/01/07			5.34	0.00	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	-	-	-	
	09/13/07			5.11	0.00	5.07	7,000	-	-	3.8	<2.5	<2.5	<5.0	8.5	<25	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	-	
	11/21/07			5.34	0.00	4.84	4,700	-	-	<2.5	<2.5	<2.5	<5.0	11	310	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	-	
	02/29/08			5.33	0.00	4.85	5,100	-	-	1.9	1.8	0.93	4.2	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	-	
	05/23/08			5.38	0.00	4.80	4,600	-	-	<2.5	<2.5	<2.5	<5.0	3.9	<25	<5.0	<2.5	<2.5	<1,200	<2.5	<2.5	-	-	-	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments
MW-5	09/26/08		10.18	5.26	0.00	4.92	3,400	-	-	1.5	<1.0	<1.0	2.2	2.8	<5.0	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	-	
MW-6	10/12/93		8.52	6.59	0.00	1.93	63	-	-	<0.50	<0.50	<0.50	<0.50	44	-	-	-	-	-	-	-	-	-	
	02/15/94			6.31	0.00	2.21	68	-	-	<0.50	<0.50	<0.50	<0.50	38	-	-	-	-	-	-	-	-	-	3.1
	05/11/94			6.15	0.00	2.37	68	-	-	<0.50	<0.50	<0.50	<0.50	49	-	-	-	-	-	-	-	-	-	8.7
	08/01/94			6.46	0.00	2.06	91	-	-	<0.50	<0.50	<0.50	0.60	60	-	-	-	-	-	-	-	-	-	2.4
	10/18/94			6.72	0.00	1.80	<50	-	-	<0.50	<0.50	<0.50	<0.50	85	-	-	-	-	-	-	-	-	-	6.0
	01/13/95			5.95	0.00	2.57	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	7.0
	04/13/95			5.44	0.00	3.08	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	8.5
	07/11/95			5.68	0.00	2.84	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	8.4
	11/02/95			6.57	0.00	1.95	<50	-	-	<0.50	<0.50	<0.50	<1.0	35	-	-	-	-	-	-	-	-	-	8.3
	02/05/96			6.27	0.00	2.25	<50	-	-	<5.0	<10	<10	<10	<100	-	-	-	-	-	-	-	-	-	2.2
	04/24/96			5.95	0.00	2.57	<250	-	-	<2.5	<5.0	<5.0	<5.0	62	-	-	-	-	-	-	-	-	-	8.0
	07/15/96			6.39	0.00	2.13	<250	-	-	<2.5	<5.0	<5.0	<5.0	<50	-	-	-	-	-	-	-	-	-	8.0
	07/30/96			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	968	-	-	-	-	-	-	-	-	-	-
	09/19/01			6.22	0.00	2.30	<500	-	-	<5.0	<5.0	<5.0	<15	879	-	-	-	-	-	-	-	-	-	-
	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	244	-	-	-	-	-	-	-	-	-	-
	06/13/02			5.78	0.00	2.74	<250	-	-	<2.5	<2.5	<2.5	<5.0	413	-	-	-	-	-	-	-	-	-	-
	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	-	-	-	-	-

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-6	08/07/03		8.52	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	-	-		
	09/13/07			6.57	0.00	4.44	63	-	-	<0.50	<0.50	<0.50	<1.0	6.7	120	<1.0	<0.50	0.87	<250	<0.50	<0.50	-	-		
	11/21/07			6.67	0.00	4.34	<50	-	-	<0.50	<0.50	<0.50	<1.0	8.4	210	<1.0	<0.50	1.0	<250	<0.50	<0.50	-	-		
	02/29/08			5.80	0.00	5.21	<50	-	-	<0.50	<0.50	<0.50	<1.0	7.1	46	<1.0	<0.50	0.92	<250	<0.50	<0.50	-	-		
	05/23/08			6.53	0.00	4.48	<50	-	-	<0.50	<0.50	<0.50	<1.0	8.4	53	<1.0	<0.50	0.95	<250	<0.50	<0.50	-	-		
09/26/08			6.86	0.00	4.15	<50	-	-	<1.0	<1.0	<1.0	<1.0	5.1	56	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	-			
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	182	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-7	12/30/98		7.61	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	636	-	-	-	-	-	-	-	-	-	-	
	06/27/01			5.69	0.00	1.92	590	-	-	<2.5	<2.5	<2.5	<7.5	739	-	-	-	-	-	-	-	-	-	-	
	09/19/01			5.89	0.00	1.72	560	-	-	<5.0	<5.0	<5.0	<15	1,190	-	-	-	-	-	-	-	-	-	-	
	12/28/01			4.53	0.00	3.08	910	-	-	23	<2.5	<2.5	<5.0	856	-	-	-	-	-	-	-	-	-	-	
	03/12/02			4.71	0.00	2.90	620	-	-	<2.5	<2.5	<2.5	<5.0	675	-	-	-	-	-	-	-	-	-	-	
	06/13/02			5.21	0.00	2.40	860	-	-	<2.5	<2.5	<2.5	<5.0	1,470	-	-	-	-	-	-	-	-	-	-	
	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	-	-	-	
	02/02/05			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	-	-	-	
	09/13/07			6.31	0.00	3.80	<50	-	-	<0.50	<0.50	<0.50	<1.0	10	260	<1.0	<0.50	0.80	<250	<0.50	<0.50	-	-	-	
	11/21/07			6.39	0.00	3.72	55	-	-	<0.50	<0.50	<0.50	<1.0	8.4	1,500	<1.0	<0.50	0.87	<250	<0.50	<0.50	-	-	-	
	02/29/08			5.78	0.00	4.33	<50	-	-	<0.50	<0.50	<0.50	<1.0	6.2	960	<1.0	<0.50	0.73	<250	<0.50	<0.50	-	-	-	
	05/23/08			6.27	0.00	3.84	53	-	-	<0.50	<0.50	<0.50	<1.0	9.6	300	<1.0	<0.50	0.96	<250	<0.50	<0.50	-	-	-	
	09/26/08			6.52	0.00	3.59	<50	-	-	<1.0	<1.0	<1.0	<1.0	7.5	800	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	-	-	
MW-8	10/12/93		8.60	5.86	0.00	2.74	<50	-	-	<0.50	<0.50	<0.50	<0.50	11	-	-	-	-	-	-	-	-	-	-	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments	
MW-8	02/15/94		8.60	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	-	-	-	-	-	-	-	-	-	-	
	06/13/02			5.09	0.00	3.51	<500	-	-	<5.0	<5.0	<5.0	<10	16	-	-	-	-	-	-	-	-	-	-	
	09/06/02			5.18	0.00	3.42	98	-	-	<0.50	<0.50	<0.50	<0.50	76	-	-	-	-	-	-	-	-	-	-	
	12/13/02			4.84	0.00	3.76	120	-	-	<0.50	<0.50	0.94	0.52	140	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			4.45	0.00	4.15	<2,500	-	-	<25	<25	<25	<25	800	-	-	-	-	-	-	-	-	-	-	
	06/06/03			5.00	0.00	3.60	<50,000	-	-	<500	<500	<500	<500	17,000	<20,000	<500	<500	<500	<100,000	-	-	-	-	-	
	08/07/03			4.84	0.00	3.76	<2,500	-	-	<25	<25	<25	<25	2,400	<1,000	<25	<25	44	<5,000	<25	<25	-	-	-	
	11/20/03			4.48	0.00	4.12	<2,500	-	-	<25	<25	<25	<25	1,400	4,100	<25	<25	<25	<5,000	-	-	-	-	-	

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments		
MW-8	04/28/04		8.60	9.66	0.00	-1.06	730	-	-	<2.5	<2.5	<2.5	<2.5	170	42,000	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-	Well purged dry		
	08/26/04			4.73	0.00	3.87	<2,500	-	-	<25	<25	<25	<25	170	47,000	<25	<25	<25	-	<25	<25	-	-			
	12/01/04		4.80	0.00	3.80	<250	-	-	<2.5	<2.5	<2.5	<2.5	36	9,700	<2.5	<2.5	<2.5	<500	<2.5	<2.5	-	-				
	02/02/05		4.50	0.00	4.10	810	-	-	<0.50	<0.50	<0.50	<0.50	41	<20	<0.50	0.72	0.64	<100	<0.50	<0.50	-	-				
	04/25/05		11.08	4.99	0.00	6.09	1,400	-	-	<12	<12	<12	<12	32	45,000	<12	<12	<12	<2,500	<12	<12	-	-			
	09/30/05			4.89	0.00	6.19	840	-	-	<5.0	<5.0	<5.0	<10	17	8,500	<5.0	<5.0	<5.0	<500	<5.0	<5.0	-	-			
	12/28/05		4.81	0.00	6.27	<250	-	-	<2.5	<2.5	<2.5	<5.0	17	7,400	<5.0	<2.5	<2.5	<500	<2.5	-	-	-	-			
	03/23/06		4.22	0.00	6.86	660	-	-	<2.5	<2.5	<2.5	<5.0	21	11,000	<5.0	<2.5	<2.5	<500	<2.5	<2.5	-	-				
	06/05/06		4.63	0.00	6.45	<2,500	-	-	<25	<25	<25	<5.0	30	34,000	<5.0	<25	<25	<5,000	<25	<25	-	-				
	09/19/06		4.82	0.00	6.26	<500	-	-	<5.0	<5.0	<5.0	<10	17	7,500	<10	<5.0	<5.0	<2,500	<5.0	<5.0	-	-				
	12/01/06		4.83	0.00	6.25	350	-	-	<2.5	<2.5	<2.5	<5.0	16	1,900	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-				
	03/01/07		4.43	0.00	6.65	<500	-	-	<5.0	<5.0	<5.0	<10	20	6,200	<10	<5.0	<5.0	<2,500	<5.0	<5.0	-	-				
	06/01/07		4.74	0.00	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	-	-				
	09/13/07		5.25	0.00	5.83	230	-	-	<0.50	<0.50	<0.50	<1.0	9.4	630	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-				
	11/21/07		5.13	0.00	5.95	350	-	-	<0.50	<0.50	<0.50	<1.0	8.7	360	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-				
	02/29/08		4.75	0.00	6.33	<1,000	-	-	<10	<10	<10	<20	16	7,500	<20	<10	<10	<5,000	<10	<10	-	-				
05/23/08		5.01	0.00	6.07	<1000	-	-	<10	<10	<10	<20	15	4,800	<20	<10	<10	<5,000	<10	<10	-	-					
09/26/08		5.43	0.00	5.65	190	-	-	<1.0	<1.0	<1.0	<1.0	14	1,800	<1.0	<1.0	<1.0	<250	<1.0	<1.0	-	-					
MW-9	10/12/93		8.08	5.66	0.08	2.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	02/15/94			5.32	0.05	2.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	05/11/94			5.57	0.00	2.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	08/01/94			6.25	0.00	1.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	10/18/94			5.59	0.13	2.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	01/13/95			4.42	0.14	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	04/13/95			4.06	0.11	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	07/11/95			4.21	0.08	3.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11/02/95			5.22	0.05	2.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	02/05/96			4.76	0.01	3.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	04/24/96			4.62	0.09	3.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	07/15/96			5.11	0.04	3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	07/30/96			5.15	0.00	2.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11/04/96			6.75	0.01	1.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	05/17/97	DUP		-	-	-	97,000	-	-	-	16,000	8,200	2,300	17,300	39,000	-	-	-	-	-	-	-	-	-	-	
	05/17/97			5.42	0.00	2.66	97,000	-	-	-	16,000	7,700	2,300	18,400	40,000	-	-	-	-	-	-	-	-	-	7.0	
	08/11/97	DUP	-	-	-	100,000	-	-	-	14,000	360	3,200	5,790	27,000	-	-	-	-	-	-	-	-	-	-		
08/11/97		5.37	0.00	2.71	71,000	-	-	-	12,000	340	2,100	4,300	26,000	-	-	-	-	-	-	-	-	-	9.1			
11/17/97	DUP	-	-	-	100,000	-	-	-	24,000	5,300	3,500	19,300	35,000	-	-	-	-	-	-	-	-	-	-			
11/17/97		5.62	Sheen	2.46	100,000	-	-	-	22,000	4,800	3,100	17,900	32,000	-	-	-	-	-	-	-	-	-	8.3			
01/29/98		4.07	Sheen	4.01	250,000	-	-	-	20,000	21,000	3,100	18,500	110,000	-	-	-	-	-	-	-	-	-	6.6			
01/29/98	DUP	-	-	-	250,000	-	-	-	20,000	20,000	3,100	18,400	110,000	-	-	-	-	-	-	-	-	-	-			

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments			
MW-9	06/22/98	DUP	8.08	4.28	0.00	3.80	280,000	-	-	21,000	18,000	3,800	21,200	110,000	-	-	-	-	-	-	-	-	-	5.8			
	06/22/98			-	-	-	-	290,000	-	-	20,000	17,000	3,800	21,200	110,000	-	-	-	-	-	-	-	-	-	-	-	
	12/30/98			4.95	0.00	3.13	150,000	-	-	10,000	3,800	2,000	9,600	86,000	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			3.95	0.00	4.13	82,000	-	-	6,800	570	1,400	4,700	100,000	-	-	-	-	-	-	-	-	-	-	-	-	
	06/23/99			5.12	0.00	2.96	41,000	-	-	11,000	820	2,300	5,200	92,000	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			4.74	0.00	3.34	57,000	-	-	12,000	5,400	1,900	9,500	89,000	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			4.58	0.00	3.50	46,000	-	-	15,000	490	2,500	3,500	100,000	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			3.90	0.00	4.18	86,000	-	-	18,000	1,800	2,300	6,800	120,000	-	-	-	-	-	-	-	-	-	-	-	-	
	05/26/00			4.15	0.00	3.93	82,000	-	-	17,000	680	1,800	3,800	100,000	-	-	-	-	-	-	-	-	-	-	-	-	
	09/06/00			4.47	0.00	3.61	100,000	-	-	19,000	280	2,400	6,400	84,000	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			4.34	0.00	3.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			4.41	0.00	3.67	110,000	-	-	14,400	768	2,610	6,670	123,000	-	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01	INA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	06/26/01	5.03	0.13	3.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	GW Elev. Estimated		
	09/19/01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	12/28/01	3.73	0.00	4.35	110,000	-	-	15,000	1,500	2,280	5,530	60,900	-	-	-	-	-	-	-	-	-	-	-	-			
	03/12/02	4.93	0.00	3.15	88,000	-	-	12,500	2,600	2,800	8,950	44,000	-	-	-	-	-	-	-	-	-	-	-	-			
	06/13/02	4.13	0.00	3.95	59,000	-	-	9,870	161	2,560	5,560	35,600	-	-	-	-	-	-	-	-	-	-	-	-			
	09/06/02	4.39	0.00	3.69	47,000	-	-	10,000	<100	2,100	4,600	31,000	-	-	-	-	-	-	-	-	-	-	-	-			
	12/13/02	3.97	0.00	4.11	57,000	-	-	11,000	1,000	2,300	5,800	28,000	-	-	-	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used		
	02/19/03	3.25	0.00	4.83	76,000	-	-	10,000	2,100	3,000	8,900	11,000	-	-	-	-	-	-	-	-	-	-	-	-			
	06/06/03	3.94	0.00	4.14	66,000	-	-	9,000	<500	2,500	4,400	17,000	<20,000	<500	<500	<500	<100,000	-	-	-	-	-	-	-			
	08/07/03	3.92	Sheen	4.16	53,000	-	-	7,600	<250	2,600	4,700	17,000	<10,000	<250	<250	350	<50,000	<250	<250	-	-	-	-	-			
	11/20/03	4.89	0.00	3.19	40,000	-	-	6,800	<250	860	1,100	16,000	12,000	<250	<250	<250	<50,000	-	-	-	-	-	-	-			
	04/28/04	3.19	Sheen	4.89	47,000	-	-	5,600	690	2,300	6,800	8,500	<5,000	<120	<120	170	<25,000	<120	<120	-	-	-	-	-			
	08/26/04	3.61	0.00	4.47	35,000	-	-	3,700	500	1,300	5,300	6,500	2,600	<50	<50	140	-	<50	<50	-	-	-	-	-	Past holding time (TBA)		
	12/01/04	3.99	0.00	4.09	36,000	-	-	3,500	<250	1,200	4,300	8,300	<10,000	<250	<250	<250	<50,000	<250	<250	-	-	-	-	-			
	02/02/05	3.71	Sheen	4.37	21,000	-	-	1,800	130	670	2,000	3,600	5,600	<50	<50	88	<10,000	<50	<50	-	-	-	-	-			
	04/25/05	10.55	3.31	Sheen	7.24	5,900	-	-	190	<5.0	120	77	540	1,400	<5.0	<5.0	14	<1,000	<5.0	<5.0	-	-	-	-			
	09/30/05	4.02	0.00	6.53	26,000	-	-	2,400	360	1,600	4,200	2,400	520	<20	<20	61	<2,000	<20	<20	-	-	-	-	-			
	12/28/05	2.99	0.00	7.56	14,000	-	-	1,400	22	350	450	2,200	1,800	<20	<10	49	<2,000	<10	-	-	-	-	-	-			
	03/23/06	2.50	0.00	8.05	4,100	-	-	250	<10	130	110	330	2,400	<20	<10	<10	<2,000	<10	<10	-	-	-	-	-			
	06/05/06	3.34	0.00	7.21	8,200	-	-	2,200	79	500	1,200	1,800	1,100	<25	<13	75	<2,500	<13	<13	-	-	-	-	-	Well purged dry		
	09/19/06	4.06	0.00	6.49	9,000	-	-	2,600	15	440	370	3,100	3,900	<25	<13	100	<6,300	<13	<13	-	-	-	-	-	Well purged dry		
	12/01/06	3.88	0.00	6.67	5,400	-	-	1,600	15	310	140	1,400	2,400	<25	<13	46	<6,300	<13	<13	-	-	-	-	-	Well purged dry		
	03/01/07	2.79	0.00	7.76	6,300	-	-	250	<13	270	75	240	580	<25	<13	<13	<6,300	<13	<13	-	-	-	-	-			
	06/01/07	3.53	0.00	7.02	6,500	-	-	980	16	250	95	1,800	2,300	<25	<13	50	<6,300	<13	<13	-	-	-	-	-			
	09/13/07	4.78	0.00	5.77	4,500	-	-	170	14	79	27	640	7,300	<25	<13	28	<6,300	<13	<13	-	-	-	-	-			
	11/21/07	4.41	0.00	6.14	4,600	-	-	790	<13	97	34	2,000	3,500	<25	<13	42	<6,300	<13	<13	-	-	-	-	-			
	02/29/08	3.41	0.00	7.14	6,800	-	-	700	19	250	98	1,100	2,400	<25	<13	35	<6,300	<13	<13	-	-	-	-	-			

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 Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	DRO (µg/L)	TOG	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	D.O. (mg/L)	Comments		
QC-2	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	-	-	-	-	-	-	-	-	-	-	-	
	09/13/07		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	11/21/07		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	02/29/08		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	05/23/08		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	-	-	
	09/26/08		-	-	-	-	<50	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-	-	-	-	-	

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

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; rounded to the nearest tenth

SPH = Separate-phase hydrocarbons

TOC = Top of casing (surveyed)

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

ft-MSL = feet above mean sea level

mg/L = Milligrams per liter

µg/L = Micrograms per liter

< = Analyte was not detected above the specified method detection limit (MDL); except after 2006 Quarter 2 where reporting limits are used.

- = 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
09/13/07	Southwest			0.025
11/21/07	Southwest			0.025
02/29/08	Southwest			0.060
05/23/08	Southwest			0.067
09/26/08	South			0.02
		Average:		0.029

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)
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Notes:

Number of monitoring events: 31

- 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

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 3,400 $\mu\text{g/L}$, 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 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 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).

Current Consultant Information

Stantec Consulting Corporation (Stantec) acquired SECOR International Incorporated (SECOR) on February 1, 2008. Consequently the SECOR corporate name changed to Stantec. Stantec continues to manage the site referenced above on behalf of Atlantic Richfield Company, a BP Affiliated Company and ConocoPhillips.

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

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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

Stantec's Procedures for Groundwater Monitoring and Sampling, and Equipment Decontamination

Stantec Consulting Corporation

STANDARD PROCEDURE FOR GROUNDWATER SAMPLING

Depth to Groundwater / SPH Thickness Measurements

Prior to purging each of the wells, the depth to groundwater and thickness of SPH, if present, within each well casing is measured to the nearest 0.01 foot using either an electronic 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 SPH, 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 (ml) 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.

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.

Containment and Disposal of Waste Water

Waste water generated during decontamination of equipment and purging is pumped into a Stantec truck-mounted water tank. The purge water is then transferred into 55-gallon, steel, Department of Transportation (DOT)-approved drums that are temporarily stored on-site. The waste water is removed from the site by Belshire, and transported to their facility for recycling/disposal.

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.

Attachment C

Quarterly Monitoring Field Data Sheets

SITE VISITATION REPORT

76 (Former BP) Service Station 11126 - 3Q08 M&S Event

Name(s) Raymond Goelle Date: 9-26-08 Time of Arrival Call-In: _____
Arrival Time: _____ Departure Time: _____ Time of Departure Call-In: _____
Who did you call? _____

DRUM INVENTORY

1 WATER _____ CARBON _____ Drum Location: _____
_____ SOIL 0 EMPTY _____

METER CALIBRATIONS

pH meter calibration readings 4.01 7.01 10.01 DO meter calibrations _____
LEL calibration readings _____ ORP calibrations _____

HEALTH AND SAFETY ASSESSMENT

HASP
PPE
ERP
Traffic
Exclusion Zones

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

QMS

I arrived on site reviewed paper work and HASP. I opened all wells, then gauged them. After gauging I met with traffic control and purged and sampled Street well. I finished Street well and purged and sampled the rest of the wells. I emptied my water and took samples to Fed Ex.

SECOR International Incorporated

HYDROLOGIC DATA SHEET

Gauge Date: 9-26-08

Project Name: 76 Former BP 11126

Field Technician: Raymond Coyle

Project Number: 77BP.11126.02.0427/ 77CP.01731.41.1006

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						PURGE & SAMPLE 3Q08	SHEEN CONFIRMATION (w/bailer)	COMMENTS
		DTP	DTW	DTB	DIA	ELEV			
9 MW-1	1002		4.29	12	2.0		Yes		
11 MW-2	1020		5.81	12	2.0		Yes		
5 MW-3	931		6.46	12	2.0		Yes		
7 MW-4	952		7.37	12	2.0		Yes		
8 MW-5	1028		5.26	13.5	2.0		Yes		
3 MW-6	914		6.86	14	2.0		Yes		
4 MW-7	923		6.52	14	2.0		Yes		
6 MW-8	941		5.43	14	2.0		Yes		
10 MW-9	1011		5.07	14	4.0		Yes		
2 MW-10	900		9.91	20	2.0		Yes		
1 MW-11	850		10.51	24	2.0		Yes		

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1350 END (2400hr) 1358
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1410
 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) = 1.31
 DEPTH TO WATER (feet) = 4.29 CALCULATED PURGE (gal) = 3.93
 WATER COLUMN HEIGHT (feet) = 7.71 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>9-26-08</u>	<u>1354</u>	<u>1</u>	<u>23.0</u>	<u>1945</u>	<u>6.86</u>	<u>cloudy</u>	<u>1100</u>
	<u>1356</u>	<u>2</u>	<u>23.0</u>	<u>1906</u>	<u>6.89</u>		
	<u>1358</u>	<u>3</u>	<u>22.9</u>	<u>1892</u>	<u>6.91</u>		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 4.31 SAMPLE TURBIDITY: 1100

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

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated
 Other: disposable
 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 Hobbs Page ___ of ___

SECOR International Inc.
WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1420 END (2400hr) 1428
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1440
 SAMPLE TYPE: Groundwater Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 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) = 1105
 DEPTH TO WATER (feet) = 5.81 CALCULATED PURGE (gal) = 3.15
 WATER COLUMN HEIGHT (feet) = 6.19 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>9-26-08</u>	<u>1424</u>	<u>1</u>	<u>22.4</u>	<u>2.20ms</u>	<u>6.90</u>	<u>Cloudy</u>	<u>1100</u>
	<u>1426</u>	<u>2</u>	<u>22.3</u>	<u>2.24ms</u>	<u>6.92</u>		
	<u>1428</u>	<u>3</u>	<u>22.2</u>	<u>2.30ms</u>	<u>6.93</u>		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.85 SAMPLE TURBIDITY: 1100

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

PURGING EQUIPMENT

Bladder Pump _____ Bailer (Teflon) disposable
 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 Garbe Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1520 END (2400hr) 1527
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1540
 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) = 1210 CASING VOLUME (gal) = 194
 DEPTH TO WATER (feet) = 6.46 CALCULATED PURGE (gal) = 2.82
 WATER COLUMN HEIGHT (feet) = 5.54 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>9-26-08</u>	<u>1524</u>	<u>1</u>	<u>21.5</u>	<u>4.63ms</u>	<u>7.75</u>	<u>clear</u>	<u>87.82</u>
	<u>1527</u>	<u>2</u>	<u>21.5</u>	<u>4.75ms</u>	<u>7.76</u>		<u>99.47</u>
		<u>3</u>					
		<u>Dry at 2.0 gal.</u>					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.50 SAMPLE TURBIDITY: 62.39

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

PURGING EQUIPMENT

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

Bailer (Teflon, disposable)
 Bailer (PVC)
 Bailer (Stainless Steel)
 Dedicated

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

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

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Hocky Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1450 END (2400hr) 1454
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1510
 SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 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) = 178
 DEPTH TO WATER (feet) = 7.37 CALCULATED PURGE (gal) = 2.36
 WATER COLUMN HEIGHT (feet) = 4.63 ACTUAL PURGE (gal) = 1.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-26-08</u>	<u>1454</u>	<u>1</u>	<u>21.1</u>	<u>272ms</u>	<u>7.31</u>	<u>Cloudy</u>	<u>1100</u>

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 7.41 SAMPLE TURBIDITY: 974.3

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

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon) disposable
 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: Raymond Horke

SIGNATURE: Raymond Horke Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1030 END (2400hr) 1040
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1050
 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) = 1.14
 DEPTH TO WATER (feet) = 5.26 CALCULATED PURGE (gal) = 4.2
 WATER COLUMN HEIGHT (feet) = 8.24 ACTUAL PURGE (gal) = _____

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-26-08</u>	<u>1036</u>	<u>1</u>	<u>24.4</u>	<u>678</u>	<u>5.97</u>	<u>clear</u>	<u>56.97</u>
	<u>1038</u>	<u>2</u>	<u>25.0</u>	<u>741</u>	<u>6.29</u>		<u>75.49</u>
	<u>1040</u>	<u>3</u>	<u>25.2</u>	<u>747</u>	<u>6.35</u>		<u>87.27</u>

SAMPLE DEPTH TO WATER: 5.31 SAMPLE INFORMATION SAMPLE TURBIDITY: 98.99

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

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

WELL INTEGRITY: Good LOCK#: yes

REMARKS: _____

SIGNATURE: Raymond Gabe Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1720 END (2400hr) 1729
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1740
 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) = 1400 CASING VOLUME (gal) = 1121
 DEPTH TO WATER (feet) = 6.86 CALCULATED PURGE (gal) = 3.64
 WATER COLUMN HEIGHT (feet) = 7.14 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>9-26-08</u>	<u>1725</u>	<u>1</u>	<u>24.1</u>	<u>3.21ms</u>	<u>7.16</u>	<u>cloudy</u>	<u>1100</u>
_____	<u>1727</u>	<u>2</u>	<u>24.4</u>	<u>3.04ms</u>	<u>7.19</u>	_____	_____
_____	<u>1729</u>	<u>3</u>	<u>24.5</u>	<u>2.98ms</u>	<u>7.21</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE DEPTH TO WATER: 6.88 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**
3 preserved voas; MW-3 -one 1-L HCl-preserved Amber
 ODOR: yes SAMPLE VESSEL / PRESERVATIVE: **for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

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

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

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

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

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hand Bailed well.

SIGNATURE: Raymond Horbe Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1250 END (2400hr) 1259
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1310
 SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 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) = 14.0 CASING VOLUME (gal) = 1.27
 DEPTH TO WATER (feet) = 6.57 CALCULATED PURGE (gal) = 3.81
 WATER COLUMN HEIGHT (feet) = 7.48 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>9-26-08</u>	<u>1255</u>	<u>1</u>	<u>25.5</u>	<u>382ms</u>	<u>7.08</u>	<u>cloudy</u>	<u>1100</u>
	<u>1257</u>	<u>2</u>	<u>24.7</u>	<u>46.4</u>	<u>7.20</u>		
	<u>1259</u>	<u>3</u>	<u>24.8</u>	<u>37.9</u>			

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.57 SAMPLE TURBIDITY: 1100

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

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon) disposable
 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 Hoke Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1320 END (2400hr) 1329
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1340
 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) = 1.45
 DEPTH TO WATER (feet) = 5.43 CALCULATED PURGE (gal) = 4.37
 WATER COLUMN HEIGHT (feet) = 8.57 ACTUAL PURGE (gal) = 4.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-26-08</u>	<u>1325</u>	<u>1.5</u>	<u>25.2</u>	<u>1835</u>	<u>6.92</u>	<u>Clear</u>	<u>56.78</u>
	<u>1327</u>	<u>3.0</u>	<u>24.1</u>	<u>2.00mS</u>	<u>6.96</u>		<u>69.89</u>
	<u>1329</u>	<u>4.5</u>	<u>23.9</u>	<u>2.07mS</u>	<u>6.98</u>		<u>92.37</u>

SAMPLE DEPTH TO WATER: 5.47 SAMPLE INFORMATION SAMPLE TURBIDITY: 87.97

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

PURGING EQUIPMENT
 Bladder Pump Bailer (Teflon) disposable
 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 wells

SIGNATURE: Raymond Hohe Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1550 END (2400hr) 1604
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1615
 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) = 5.98
 DEPTH TO WATER (feet) = 5.07 CALCULATED PURGE (gal) = 17.94
 WATER COLUMN HEIGHT (feet) = 8.83 ACTUAL PURGE (gal) = 12.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-26-08</u>	<u>1559</u>	<u>6</u>	<u>21.9</u>	<u>1928</u>	<u>7.09</u>	<u>Clear</u>	<u>39.82</u>
	<u>1604</u>	<u>12</u>	<u>22.1</u>	<u>1407</u>	<u>7.05</u>		<u>56.25</u>
		<u>18</u>					<u>86.29</u>
		<u>dry qt 12.0 gal</u>					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.10 SAMPLE TURBIDITY: 81.27

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

PURGING EQUIPMENT

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

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

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

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

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Hohe Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1135 END (2400hr) 1148
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1210
 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) = 20.0 CASING VOLUME (gal) = 1.71
 DEPTH TO WATER (feet) = 9.91 CALCULATED PURGE (gal) = 5.14
 WATER COLUMN HEIGHT (feet) = 10.09 ACTUAL PURGE (gal) = 4.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
<u>9-26-08</u>	<u>1142</u>	<u>1.5</u>	<u>21.7</u>	<u>2.79ms</u>	<u>7.01</u>	<u>Cloudy</u>	<u>1100</u>
_____	<u>1145</u>	<u>3.0</u>	<u>21.4</u>	<u>2.94ms</u>	<u>7.04</u>	_____	_____
_____	<u>1148</u>	<u>4.5</u>	<u>21.2</u>	<u>2.97ms</u>	<u>7.05</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 9.93 SAMPLE TURBIDITY: 1100

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

PURGING EQUIPMENT

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

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

SAMPLING EQUIPMENT

Bladder Pump
 Centrifugal Pump
 Submersible Pump
 Peristaltic Pump
 Other: _____

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

WELL INTEGRITY: Good LOCK#: YES

REMARKS: Hand bailed well.

SIGNATURE: Raymond Hoibe Page ___ of ___

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

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

DATE GAUGED 9-26-08 START (2400hr) 1105 END (2400hr) 1116
 DATE SAMPLED 9-26-08 SAMPLE TIME (2400hr) 1125
 SAMPLE TYPE: Groundwater X Surface Water _____ Treatment Effluent _____ Other _____

CASING DIAMETER: 2" X 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) = 2410 CASING VOLUME (gal) = 2.79
 DEPTH TO WATER (feet) = 10.51 CALCULATED PURGE (gal) = 6.87
 WATER COLUMN HEIGHT (feet) = 13149 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>9-26-08</u>	<u>1110</u>	<u>2</u>	<u>21.2</u>	<u>1306</u>	<u>7.07</u>	<u>cloudy</u>	<u>1100</u>
	<u>1113</u>	<u>4</u>	<u>20.7</u>	<u>1392</u>	<u>7.21</u>		
	<u>1116</u>	<u>6</u>	<u>20.5</u>	<u>1395</u>	<u>7.20</u>		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 10.56 SAMPLE TURBIDITY: 1100

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

PURGING EQUIPMENT

Bladder Pump Bailer (Teflon) disposable
 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 Boche Page ___ of ___

JOURNEY HAZARD ASSESSMENT CARD

STOP! THINK! GO!

Name Raymond Goette Date 9-26-08

STOP

Do I need to make this journey? Yes No

STOP

Where am I travelling? How long will I be driving? And do I have an ETA with a contact person and have communicated area hazards and safest mode of transport?

THINK

How can I ensure that I have a safe journey?

THINK

Am I well rested and alert for the journey? Yes No

THINK

Have I done a vehicle walk around and ensured that the vehicle is safe and ready for travel? Yes No

ELEMENTS OF THE DRIVING STANDARD

- Has vehicle been inspected? Yes No
- Will passengers be transported? Yes No
- Has cargo been secured? Yes No
- Driver's License is current? Yes No
- Appropriately rested and alert? Yes No
- Journey risks have been identified? Yes No
- Seatbelts are in working order? Yes No
- Medically fit for driving? Yes No

HAVE A SAFE TRIP!

DRIVING IS RISKY BUSINESS!



Chain of Custody Record

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: Lancaster Laboratories	BP/AR Facility No.: 11126	Consultant/Contractor: Stantec Consulting
Address: 2425 New Holland Pike, Lancaster, PA 17601	BP/AR Facility Address: 1700 Powell Street Emeryville, Ca	Address: 3017 Kilgore Rd Suite 100
	Site Lat/Long: 37.838926108 -122.295216	Rancho Cordova, CA 95670
Lab PM: Megan Moeller	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 717-656-2300 ext 1246	Enfos Project No.:	Consultant/Contractor PM: Catherine Spelis/Brad Shelton
BP/AR EBM: Paul Supple	Provision or OOC (circle one)	Tele/Fax: 916-861-0400 Ext. 320/329
Address: P.O. Box 1257	Phase/WBS:	Report Type & QC Level: Quarterly Monitoring and Sampling
		E-mail EDD To: BPCPNCal@stantec.com
San Ramon, CA 94583	Sub Phase/Task:	bpdata@stantec.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: Stantec Consulting

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis							Sample Point Lat/Long and Comments				
Item No.	Sample Description	Time	Date	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/MIBE by EPA 8260B	TPHd EPA 8015M* <input checked="" type="checkbox"/> Diesel	Total Oil and Grease (EPA 1664)								
1	MW-1	1410	9-26	x			3			x		x													
2	MW-2	1440		x			3			x		x													
3	MW-3	1540		x			6			x		x		x	x										
4	MW-4	1510		x			3			x		x													
5	MW-5	1050		x			3			x		x													
6	MW-6	1240		x			3			x		x													
7	MW-7	1310		x			3			x		x													
8	MW-8	1340		x			3			x		x													
9	MW-9	1615		x			3			x		x													
10	MW-10	1210		x			3			x		x													

Sampler's Name: <u>Raymond Goebel</u>	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Sampler's Company: <u>Stantec</u>	<u>Raymond Goebel</u>		<u>9-26-08</u>	<u>1800</u>				
Shipment Date:								
Shipment Method:								
Shipment Tracking No:								

Special Instructions: Bill costs to Stantec. 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: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No



Chain of Custody Record

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: Lancaster Laboratories	BP/AR Facility No.: 11126	Consultant/Contractor: Stantec Consulting
Address: 2425 New Holland Pike, Lancaster, PA 17601	BP/AR Facility Address: 1700 Powell Street Emeryville, Ca	Address: 3017 Kilgore Rd. Suite 100
	Site Lat/Long: 37.838926108 -122.295216	Rancho Cordova, CA 95670
Lab PM: Megan Moeller	California Global ID No.: T0600100208	Consultant Project No.: 77BP 11126.02.0403/77CP.01731.41.2080
Tele/Fax: 717-656-2300 ext 1246	Enfos Project No.:	Consultant/Contractor PM: Catherine Spelis/Brad Shelton
BP/AR EBM: Paul Supple	Provision or OOC (circle one)	Tele/Fax: 915-861-0400 Ext. 320/329
Address: P.O. Box 1257	Phase/WBS:	Report Type & QC Level: Quarterly Monitoring and Sampling
		E-mail EDD To: BPCPNCal@stantec.com
San Ramon, CA 94583	Sub Phase/Task:	bpdata@stantec.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: Stantec Consulting

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis								Sample Point Lat/Long and Comments		
Item No.	Sample Description	Time	Date	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/MIBE by EPA 8260B									
1	MW-11	1125	9-26		x			3			x			x								37.83772 -122.2958459		
2	QCTB		↓		x			2			x			x										
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Sampler's Name: Raymond Goelke	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Sampler's Company: Stantec	Raymond Goelke		9-26-06	1800				
Shipment Date:								
Shipment Method:								
Shipment Tracking No:								

Special Instructions: Bill costs to Stantec. 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: °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

Attachment D

Certified Laboratory Analytical Report, Chain-of-Custody Documentation, and Stantec Laboratory Validation Form

ANALYTICAL RESULTS

Prepared for:

Stantec
3017 Kilgore Road
Suite 100
Rancho Cordova CA 95670

916-861-0400

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425SAMPLE GROUP

The sample group for this submittal is 1113550. Samples arrived at the laboratory on Monday, September 29, 2008. The PO# for this group is 77BP.11126.02.0403 and the release number is SUPPLE.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
MW-1 NA Water	5489853
MW-2 NA Water	5489854
MW-3 NA Water	5489855
MW-4 NA Water	5489856
MW-5 NA Water	5489857
MW-6 NA Water	5489858
MW-7 NA Water	5489859
MW-8 NA Water	5489860
MW-9 NA Water	5489861
MW-10 NA Water	5489862
MW-11 NA Water	5489863
QCTB NA Water	5489864

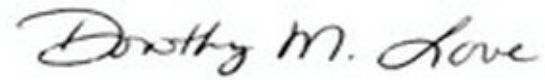
ELECTRONIC Stantec Consulting, Inc.
COPY TO
ELECTRONIC Stantec Consulting, Inc.
COPY TO

Attn: BPCPNCal

Attn: bpdata

Questions? Contact your Client Services Representative
Megan A Moeller at (717) 656-2300

Respectfully Submitted,



Dorothy M. Love
Group Leader



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 2

Lancaster Laboratories Sample No. **WW5489853**

Group No. **1113550**

MW-1 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-1

Collected: 09/26/2008 14:10 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

3017 Kilgore Road

Discard: 11/28/2008

Suite 100

Rancho Cordova CA 95670

EMEM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	120	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	1.9	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	1,400	50	ug/l	10
05401	Benzene	71-43-2	26	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	6.1	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	10	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	1,800	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 11:55	Ginelle L Feister	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 14:59	Ginelle L Feister	10
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 11:55	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 11:55	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/09/2008 14:59	Ginelle L Feister	10

Lancaster Laboratories Sample No. WW5489853

Group No. 1113550

MW-1 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-1

Collected: 09/26/2008 14:10 by RG

Submitted: 09/29/2008 09:35

Reported: 10/28/2008 at 15:52

Discard: 11/28/2008

E MEM1

Account Number: 12505

Stantec

3017 Kilgore Road

Suite 100

Rancho Cordova CA 95670



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Lancaster Laboratories Sample No. WW5489854

Group No. 1113550

MW-2 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-2

Collected: 09/26/2008 14:40 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

3017 Kilgore Road

Discard: 11/28/2008

Suite 100

Rancho Cordova CA 95670

E MEM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	960	10	ug/l	10
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	2.8	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	42	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	77,000	2,500	ug/l	500
05401	Benzene	71-43-2	220	10	ug/l	10
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	12	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	20	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	42	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	4,800	500	ug/l	10
Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3.						

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 12:44	Ginelle L Feister	1

Lancaster Laboratories Sample No. WW5489854

Group No. 1113550

MW-2 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-2

Collected: 09/26/2008 14:40 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Reported: 10/28/2008 at 15:52

Discard: 11/28/2008

Stantec

3017 Kilgore Road

Suite 100

Rancho Cordova CA 95670

EMEM2

01594	BTEX+5	SW-846 8260B	1	10/08/2008 13:09	Ginelle L Feister	10
	Oxygenates+EDC+EDB+ETOH					
01594	BTEX+5	SW-846 8260B	1	10/09/2008 15:21	Ginelle L Feister	500
	Oxygenates+EDC+EDB+ETOH					
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 13:09	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 12:44	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/08/2008 13:09	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	10/09/2008 15:21	Ginelle L Feister	500



Analysis Report

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Lancaster Laboratories Sample No. **WW5489855**

Group No. **1113550**

MW-3 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-3

Collected: 09/26/2008 15:40 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EMEM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
06609	DRO (C10-C28) The holding time was not met. The DRO analysis was added outside of the extraction holding time.	n.a.	3,000	100	ug/l	1
08079	HEM (oil & grease)	n.a.	< 5,000	5,000	ug/l	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	4.8	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	6,900	250	ug/l	50
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	120	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06609	DRO (C10-C28)	SW-846 8015B	1	10/09/2008 10:00	Lisa A Reinert	1
08079	HEM (oil & grease)	EPA 1664A	1	10/08/2008 08:33	Yolunder Y Bunch	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 13:34	Ginelle L Feister	1

Lancaster Laboratories Sample No. WW5489855

Group No. 1113550

MW-3 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-3

Collected: 09/26/2008 15:40 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

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E MEM3

01594	BTEX+5	SW-846 8260B	1	10/09/2008 15:43	Ginelle L Feister	50
	Oxygenates+EDC+EDB+ETOH					
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 13:34	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 13:34	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/09/2008 15:43	Ginelle L Feister	50
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	10/08/2008 01:30	Roman Kuropatkin	1



Analysis Report

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Lancaster Laboratories Sample No. WW5489856

Group No. 1113550

MW-4 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-4

Collected:09/26/2008 15:10 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EMEM4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	14	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	2.8	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	39,000	1,300	ug/l	250
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	370	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 13:59	Ginelle L Feister	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 16:05	Ginelle L Feister	250
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 13:59	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 13:59	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/09/2008 16:05	Ginelle L Feister	250

Lancaster Laboratories Sample No. WW5489856

Group No. 1113550

MW-4 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-4

Collected: 09/26/2008 15:10 by RG

Submitted: 09/29/2008 09:35

Reported: 10/28/2008 at 15:52

Discard: 11/28/2008

E MEM4

Account Number: 12505

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Analysis Report

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Lancaster Laboratories Sample No. **WW5489857**

Group No. **1113550**

MW-5 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-5

Collected: 09/26/2008 10:50 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EMEM5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	2.8	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	< 5.0	5.0	ug/l	1
05401	Benzene	71-43-2	1.5	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	2.2	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	3,400	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 16:26	Ginelle L Feister	1
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/09/2008 16:26	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/09/2008 16:26	Ginelle L Feister	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5489858**

Group No. **1113550**

MW-6 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-6

Collected: 09/26/2008 12:40 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EMEM6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	5.1	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	56	5.0	ug/l	1
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	< 50	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 15:12	Ginelle L Feister	1
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 15:12	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 15:12	Ginelle L Feister	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5489859**

Group No. **1113550**

MW-7 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-7

Collected: 09/26/2008 13:10 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EMEM7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	7.5	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	800	5.0	ug/l	1
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	< 50	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 15:37	Ginelle L Feister	1
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 15:37	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 15:37	Ginelle L Feister	1



Analysis Report

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Lancaster Laboratories Sample No. WW5489860

Group No. 1113550

MW-8 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-8

Collected:09/26/2008 13:40 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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EMEM8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	14	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	1,800	50	ug/l	10
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	190	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 16:02	Ginelle L Feister	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 17:10	Ginelle L Feister	10
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 16:02	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 16:02	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/09/2008 17:10	Ginelle L Feister	10



Analysis Report

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Lancaster Laboratories Sample No. WW5489860

Group No. 1113550

MW-8 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-8

Collected: 09/26/2008 13:40 by RG

Submitted: 09/29/2008 09:35

Reported: 10/28/2008 at 15:52

Discard: 11/28/2008

EMEM8

Account Number: 12505

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Analysis Report

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Lancaster Laboratories Sample No. **WW5489861**

Group No. **1113550**

MW-9 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-9

Collected: 09/26/2008 16:15 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EMEM9

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	280	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	6.2	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	12,000	500	ug/l	100
05401	Benzene	71-43-2	94	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	11	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	26	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	35	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	10,000	500	ug/l	10

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/08/2008 16:26	Ginelle L Feister	1
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 17:31	Ginelle L Feister	100
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/08/2008 16:51	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/08/2008 16:26	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/08/2008 16:51	Ginelle L Feister	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	10/09/2008 17:31	Ginelle L Feister	100

Lancaster Laboratories Sample No. WW5489861

Group No. 1113550

MW-9 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-9

Collected: 09/26/2008 16:15 by RG

Submitted: 09/29/2008 09:35

Reported: 10/28/2008 at 15:52

Discard: 11/28/2008

E MEM9

Account Number: 12505

Stantec

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Analysis Report

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Lancaster Laboratories Sample No. **WW5489862**

Group No. **1113550**

MW-10 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-10

Collected: 09/26/2008 12:10 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

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Discard: 11/28/2008

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EME10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	3.0	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	< 5.0	5.0	ug/l	1
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	< 50	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 17:53	Ginelle L Feister	1
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/09/2008 17:53	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/09/2008 17:53	Ginelle L Feister	1



Analysis Report

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Lancaster Laboratories Sample No. **WW5489863**

Group No. **1113550**

MW-11 NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 MW-11

Collected: 09/26/2008 11:25 by RG

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

3017 Kilgore Road

Discard: 11/28/2008

Suite 100

Rancho Cordova CA 95670

EME11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH					
01587	Ethanol	64-17-5	< 250	250	ug/l	1
02010	Methyl Tertiary Butyl Ether	1634-04-4	< 1.0	1.0	ug/l	1
02011	di-Isopropyl ether	108-20-3	< 1.0	1.0	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	< 1.0	1.0	ug/l	1
02014	t-Amyl methyl ether	994-05-8	< 1.0	1.0	ug/l	1
02015	t-Butyl alcohol	75-65-0	< 5.0	5.0	ug/l	1
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05402	1,2-Dichloroethane	107-06-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05412	1,2-Dibromoethane	106-93-4	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	< 50	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01594	BTEX+5 Oxygenates+EDC+EDB+ETOH	SW-846 8260B	1	10/09/2008 18:15	Ginelle L Feister	1
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/09/2008 18:15	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/09/2008 18:15	Ginelle L Feister	1



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. **WW5489864**

Group No. **1113550**

QCTB NA Water

CP 11126 SIRC

1700 Powell St-Emeryville T0600100208 QCTB

Collected: 09/26/2008

Account Number: 12505

Submitted: 09/29/2008 09:35

Stantec

Reported: 10/28/2008 at 15:52

3017 Kilgore Road

Discard: 11/28/2008

Suite 100

Rancho Cordova CA 95670

EMETB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Limit of Quantitation	Units	Dilution Factor
06054	BTEX+MTBE by 8260B					
02010	Methyl Tertiary Butyl Ether	1634-04-4	< 1.0	1.0	ug/l	1
05401	Benzene	71-43-2	< 1.0	1.0	ug/l	1
05407	Toluene	108-88-3	< 1.0	1.0	ug/l	1
05415	Ethylbenzene	100-41-4	< 1.0	1.0	ug/l	1
06310	Xylene (Total)	1330-20-7	< 1.0	1.0	ug/l	1
06184	TPH GRO in water by 8260B					
06383	C6-C12-TPH-GRO	n.a.	< 50	50	ug/l	1

State of California Lab Certification No. 2116

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	10/09/2008 04:30	Michael A Ziegler	1
06184	TPH GRO in water by 8260B	SW-846 8260B	1	10/09/2008 04:30	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/09/2008 04:30	Michael A Ziegler	1

Quality Control Summary

 Client Name: Stantec
 Reported: 10/28/08 at 03:52 PM

Group Number: 1113550

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 082810018A DRO (C10-C28)	Sample number(s): 5489855 < 100 100. ug/l			88	81	63-119	7	20
Batch number: 08282807901A HEM (oil & grease)	Sample number(s): 5489855 < 5,000 5,000. ug/l			90	94	78-114	4	16
Batch number: Z082821AA Ethanol	Sample number(s): 5489853-5489856, 5489858-5489861 < 250 250. ug/l			107	98	45-156	9	30
Methyl Tertiary Butyl Ether	< 1.0	1.0	ug/l	103	104	73-119	1	30
di-Isopropyl ether	< 1.0	1.0	ug/l	101	102	70-123	1	30
Ethyl t-butyl ether	< 1.0	1.0	ug/l	101	102	74-120	1	30
t-Amyl methyl ether	< 1.0	1.0	ug/l	103	100	79-113	3	30
t-Butyl alcohol	< 5.0	5.0	ug/l	99	100	74-117	1	30
Benzene	< 1.0	1.0	ug/l	102	103	78-119	0	30
1,2-Dichloroethane	< 1.0	1.0	ug/l	99	99	69-135	0	30
Toluene	< 1.0	1.0	ug/l	106	105	85-115	1	30
1,2-Dibromoethane	< 1.0	1.0	ug/l	102	103	81-114	0	30
Ethylbenzene	< 1.0	1.0	ug/l	105	104	82-119	1	30
Xylene (Total)	< 1.0	1.0	ug/l	107	107	83-113	0	30
C6-C12-TPH-GRO	< 50	50.	ug/l	110	106	76-154	3	30
Batch number: Z082823AA Methyl Tertiary Butyl Ether	Sample number(s): 5489864 < 1.0 1.0 ug/l			99	98	73-119	1	30
Benzene	< 1.0	1.0	ug/l	99	95	78-119	4	30
Toluene	< 1.0	1.0	ug/l	106	101	85-115	5	30
Ethylbenzene	< 1.0	1.0	ug/l	104	98	82-119	6	30
Xylene (Total)	< 1.0	1.0	ug/l	106	100	83-113	5	30
C6-C12-TPH-GRO	< 50	50.	ug/l	102	100	76-154	2	30
Batch number: Z082831AA Ethanol	Sample number(s): 5489853-5489857, 5489860-5489863 < 250 250. ug/l			87	114	45-156	27	30
Methyl Tertiary Butyl Ether	< 1.0	1.0	ug/l	100	100	73-119	0	30
di-Isopropyl ether	< 1.0	1.0	ug/l	101	99	70-123	2	30
Ethyl t-butyl ether	< 1.0	1.0	ug/l	98	97	74-120	0	30
t-Amyl methyl ether	< 1.0	1.0	ug/l	99	99	79-113	0	30
t-Butyl alcohol	< 5.0	5.0	ug/l	104	101	74-117	3	30
Benzene	< 1.0	1.0	ug/l	101	99	78-119	2	30
1,2-Dichloroethane	< 1.0	1.0	ug/l	95	93	69-135	2	30
Toluene	< 1.0	1.0	ug/l	106	105	85-115	1	30
1,2-Dibromoethane	< 1.0	1.0	ug/l	100	101	81-114	1	30
Ethylbenzene	< 1.0	1.0	ug/l	104	103	82-119	1	30
Xylene (Total)	< 1.0	1.0	ug/l	107	106	83-113	1	30
C6-C12-TPH-GRO	< 50	50.	ug/l	106	104	76-154	2	30

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Stantec

Group Number: 1113550

Reported: 10/28/08 at 03:52 PM

Sample Matrix Quality Control

 Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
 Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: Z082821AA	Sample number(s): 5489853-5489856,5489858-5489861 UNSPK: 5489853							
Ethanol	109		32-164					
Methyl Tertiary Butyl Ether	78 (2)		69-127					
di-Isopropyl ether	104		68-129					
Ethyl t-butyl ether	103		78-119					
t-Amyl methyl ether	108		72-125					
t-Butyl alcohol	86 (2)		70-121					
Benzene	87		83-128					
1,2-Dichloroethane	103		70-143					
Toluene	108		83-127					
1,2-Dibromoethane	103		78-120					
Ethylbenzene	109		82-129					
Xylene (Total)	110		82-130					
Batch number: Z082823AA	Sample number(s): 5489864 UNSPK: P485266							
Methyl Tertiary Butyl Ether	97		69-127					
Benzene	102		83-128					
Toluene	110		83-127					
Ethylbenzene	108		82-129					
Xylene (Total)	109		82-130					
Batch number: Z082831AA	Sample number(s): 5489853-5489857,5489860-5489863 UNSPK: P486985							
Ethanol	108		32-164					
Methyl Tertiary Butyl Ether	106		69-127					
di-Isopropyl ether	106		68-129					
Ethyl t-butyl ether	104		78-119					
t-Amyl methyl ether	105		72-125					
t-Butyl alcohol	101		70-121					
Benzene	110		83-128					
1,2-Dichloroethane	102		70-143					
Toluene	116		83-127					
1,2-Dibromoethane	107		78-120					
Ethylbenzene	113		82-129					
Xylene (Total)	116		82-130					

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: DRO (C10-C28)

Batch number: 082810018A

Orthoterphenyl

5489855	79
Blank	87
LCS	101
LCSD	101

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

 Client Name: Stantec
 Reported: 10/28/08 at 03:52 PM

Group Number: 1113550

Surrogate Quality Control

Limits: 59-131

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH
 Batch number: Z082821AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5489853	90	88	96	91
5489854	90	89	99	91
5489855	92	89	97	90
5489856	92	87	98	91
5489858	91	90	96	90
5489859	90	87	97	90
5489860	91	90	95	88
5489861	91	87	98	90
Blank	93	91	96	88
LCS	91	89	97	93
LCSD	91	90	96	92
MS	90	89	95	91

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: BTEX+MTBE by 8260B
 Batch number: Z082823AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5489864	93	88	96	88
Blank	90	87	95	88
LCS	89	90	96	91
LCSD	90	90	95	90
MS	90	88	96	92

Limits: 80-116 77-113 80-113 78-113

 Analysis Name: BTEX+5 Oxygenates+EDC+EDB+ETOH
 Batch number: Z082831AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5489857	92	87	94	94
5489862	93	89	95	89
5489863	94	89	94	90
Blank	91	89	96	87
LCS	90	89	95	92
LCSD	89	87	96	92
MS	90	89	96	91

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Project Name: 11126 - Emeryville, CA
LLI Group #: 1113550

General Comments:

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client. The compliance signature is located on the cover page of the Analysis Reports.

See the Laboratory Chronicle section of the Analysis Report for the method references

All QC met criteria unless otherwise noted in an Analysis Specific Comment below. Refer to the QC Summary for specific values and acceptance criteria.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

The temperature of the sample(s) upon receipt at the lab was 8.7-10.8 C.

Analysis Specific Comments:**06184: TPH GRO in water by 8260B**

Sample #s: 5489854

Preservation requirements were not met. The vial submitted for volatile analysis did not have a pH < 2 at the time of analysis. Due to the volatile nature of the analytes, it is not appropriate for the laboratory to adjust the pH at the time of sample receipt. The pH of this sample was pH = 3.

06609: DRO (C10-C28)

Sample #s: 5489855

The holding time was not met. The DRO analysis was added outside of the extraction holding time.



Account# 12505 Group# 1113550 Sample# 5489853-64

Chain of Custody Record

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: Lancaster Laboratories	BP/AR Facility No.: 11126	Consultant/Contractor: Stantec Consulting
Address: 2425 New Holland Pike, Lancaster, PA 17601	BP/AR Facility Address: 1700 Powell Street Emeryville, Ca	Address: 3017 Kilgore Rd, Suite 100
	Site Lat/Long: 37.838926108 -122.295216	Rancho Cordova, CA 95670
Lab PM: Megan Moeller	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 717-656-2300 ext 1246	Enfos Project No.:	Consultant/Contractor PM: Catherine Spelis/Brad Shelton
BP/AR EBM: Paul Supple	Provision or OOC (circle one)	Tele/Fax: 916-861-0400 Ext. 320/329
Address: P.O. Box 1257	Phase/WBS:	Report Type & QC Level: Quarterly Monitoring and Sampling
		E-mail EDD To: BPCPNcal@stantec.com,
San Ramon, CA 94583	Sub Phase/Task:	bpdata@stantec.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: Stantec Consulting

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	TPHD EPA 8015M* Diesel	Total Oil and Grease (LPA 1664)			
1	MW-1	1410	9-26	x				3			x				x					
2	MW-2	1440		x				3			x				x					
3	MW-3	1540		x				6			x				x	x				
4	MW-4	1510		x				3			x				x					
5	MW-5	1056		x				3			x				x					
6	MW-6	1240		x				3			x				x					
7	MW-7	1310		x				3			x				x					
8	MW-8	1340		x				3			x				x					
9	MW-9	1615		x				3			x				x					
10	MW-10	1210		x				3			x				x					

Sampler's Name: Raymond Goehke	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stantec	Raymond Goehke	9-26-08	1500			
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Bill costs to Stantec. 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: 10.8°F	Trip Blank: Yes/No	MS/MSD Sample Submitted: Yes/No
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Atlantic Richfield Company

bp
A BP affiliated company

Account # 12505 Group # 1113550 Sample # 5489853-64 2 of 2

Chain of Custody Record

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: Lancaster Laboratories	BP/AR Facility No.: 11126	Consultant/Contractor: Stantec Consulting
Address: 2425 New Holland Pike, Lancaster, PA 17601	BP/AR Facility Address: 1700 Powell Street Emeryville, Ca	Address: 3017 Kilgore Rd, Suite 100
	Site Lat/Long: 37.838926108 -122.295216	Rancho Cordova, CA 95670
Lab PM: Megan Moeller	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 717-656-2300 ext 1246	Enfos Project No.:	Consultant/Contractor PM: Catherine Spelis/Brad Shelton
BP/AR EBM: Paul Supple	Provision or OOC (circle one)	Tele/Fax: 916-861-0400 Ext. 320/329
Address: P.O. Box 1257	Phase/WBS:	Report Type & QC Level: Quarterly Monitoring and Sampling
San Ramon, CA 94583	Sub Phase/Task:	E-mail EDD To: BPCPNCal@stantec.com, bpdata@stantec.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: Stantec Consulting

Lab Bottle Order No:				Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis						Sample Point Lat/Long and Comments	
Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	Methanol	CRO/BTEX/6 oxygenates/ 1,2-DCA/EDB by EPA 8260B	CRO/BTEX/MIBE by EPA 8260B						
1	MW-11	1125	9-26		x			3			x		x								37.83772 -122.2958459
2	QCTB		↓		x			2			x		x								
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Sampler's Name: <u>Raymond Goetz</u>	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: <u>Stantec</u>	<u>Raymond Goetz</u>	<u>9-26-08</u>	<u>1500</u>			
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

Special Instructions: Bill costs to Stantec. 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: 10.2°F Trip Blank: Yes No MS/MSD Sample Submitted: Yes No

350m2132
9-29-08

Stantec 9-29-08 09:35

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Is Data Valid? (circle)

YES
NO


Preservation Temperature
(If Known)

4.6 (°C)

Stantec Lab Validation Form

Project/Client: BP (Former 76) Service Station No. 11126 / BP-CP
Project No.: 77BP.11126.02.0436 and 77CP.01731.41.1007
Lab Work Order No.: 720-14471-1
Date of Validation: 10/29/2008
Date of Analysis: 10/8/2008-06/05/2008
Date of Sampling: 09/26/2008
Completed By: Kimber Collins

Signature:



Circle/Highlight
Yes or No

1. Was the analysis the one requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they below non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or µg/g, water samples mg/L, µg/L, and air samples in volume mg/m³, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

If any answer is no, explain why and what corrective action was taken:

The temperature of the samples upon receipt at the lab was 8.7-10.8 degrees Celsius. Preservation requirements were not met for sample #5489854 (MW-1). The vial submitted for volatile analysis did not have a pH<2 at the time of analysis. The pH of the sample was pH=3. The holding time was not met for DRO analysis for sample #5489855 (MW-3). The DRO analysis was added outside of the extraction holding time.