Stantec Consulting Corporation
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June 19, 2008
File. 77BP.11126.02.0436/77CP.01731.41

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

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

Dear Mr. Plunkett:

Please note that Stantec Consulting Corporation (Stantec) acquired SECOR International Incorporated (SECOR) on February 1, 2008. Consequently the SECOR corporate name will be changed to Stantec. Stantec will continue to manage the site referenced above on behalf of Atlantic Richfield Company (ARC), a BP Affiliated Company and ConocoPhillips with no changes to the project team. If you have any questions or comments, please contact us at (916) 861-0400.

Sincerely,

Stantec Consulting Corporation

Brad Shelton, P.G.
Associate Geologist
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Quarterly Groundwater Monitoring Report Second Quarter 2008

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

SECOR 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:
Stantec Consulting Corporation (formerly SECOR International Inc.)
3017 Kilgore Road, Suite 100
Rancho Cordova, California 95670
916-861-0400

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

And

ConocoPhillips
Ms. Shelby Lathrop
76 Broadway
Sacramento, California 95818

June 19, 2008

Stantec

Date: June 19, 2008

Quarterly Groundwater Monitoring Report
Second Quarter 2008

Station Number:	11126
Site Address:	1700 Powell Street, Emeryville, California 95608
Atlantic Richfield Company, a BP affiliated company Contact:	Mr. Paul Supple Environmental Business Manager Atlantic Richfield Company P.O. Box 1257 San Ramon, California 94583
ConocoPhillips Contact	Ms. Shelby Lathrop ConocoPhillips 76 Broadway Sacramento, California 95818
Consulting Company:	Stantec Consulting Corporation (Stantec), formerly SECOR International, Inc. (SECOR) – Ms. Catherine Francini
SECOR 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 [Second – 2008]

1. Stantec, formerly SECOR performed groundwater monitoring and sampling of wells on May 23, 2008.
2. Stantec, formerly SECOR submitted the *Quarterly Groundwater Monitoring Progress Report – First Quarter 2008* on March 31, 2007.

WORK PROPOSED FOR NEXT QUARTER [Third – 2008]

1. Groundwater monitoring and sampling event will be performed by Stantec.
2. Stantec will submit the *Quarterly Groundwater Monitoring Progress Report – Second Quarter 2008.*

DISCUSSION

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

The properties in the vicinity of the site are a mixture of industrial and commercial developments. South of the site and across Powell Street is Powell Street Plaza, a retail commercial development with a number of groundwater monitoring wells on-site and around its perimeter. Immediately east of Powell Street Plaza and approximately 1,000 feet (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.

Current Site Information	
Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring and Sampling:	Quarterly, 11 monitoring wells (MW-1 through MW-11)
Is Free Product (FP) Present on Site?	No
Historic Range in Depth to Water, Q4-1993 to Q2-2008:	2.50 ft to 10.51 ft below top of casing (TOC)
Current Remediation Techniques:	Natural Attenuation

Current Sampling Schedule	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) (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	May 23, 2008
Depth to Groundwater (DTW, ft below TOC)	4.26 ft in MW-1 to 10.51 ft below TOC in MW-11
Average Change in Groundwater Elevation Since Last Event:	0.51 ft decrease
Groundwater Flow Direction and Gradient:	Southwest at 0.067 foot per foot (ft/ft)

Current Quarter Analytical Data	
Minimum/Maximum GRO Concentrations	Not detected (ND)<50 micrograms per liter (µg/L) in three wells/13,000 µg/L in MW-2
Minimum/Maximum Benzene Concentrations	ND<0.50 µg/L in four wells/1,700 µg/L in MW-2
Minimum/Maximum MtBE Concentrations	ND<0.50 µg/L in MW-11/2,500 µg/L in MW-2
Minimum/Maximum TBA Concentrations	ND<5.0 µg/L in two wells/42,000 µg/L in MW-4

MONITORING AND SAMPLING PROCEDURES

The groundwater monitoring well network at and around the site consists of 11 wells (MW-1 through MW-11). Depth to water levels are measured and groundwater samples are collected from the wells on a quarterly basis. During the second quarter 2008, groundwater samples were collected on May 23, 2008. Field notes from the May 23, 2008 monitoring and sampling event

and Stantec's standard groundwater monitoring and sampling procedures are included as Attachment B.

GROUNDWATER SAMPLE ANALYSES

Groundwater samples were submitted to TestAmerica Laboratories Inc. (TestAmerica) 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. A certified laboratory analytical report and chain-of-custody documentation are included as Attachment C.

GROUNDWATER SAMPLE RESULTS AND DISTRIBUTION

During the second quarter 2008, depth to groundwater within the wells ranged from 4.26 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 May 23, 2008, the direction of groundwater flow beneath and in the site vicinity was toward the southwest at a hydraulic gradient of 0.067 ft/ft, which was generally consistent with the historical groundwater flow direction and gradient since 2003. Prior to 2003, the historical groundwater flow direction was reportedly variable since 2001; however, the groundwater flow patterns were most consistently toward the south and southwest. Current and historical depth to groundwater measurements, calculated groundwater elevation data, and analytical data are presented in Tables 1 and 2. Groundwater elevation data were used to construct a potentiometric surface map, which is included as Figure 1. Analytical data were used to construct GRO, benzene, MtBE, and TBA isoconcentration contour maps included as Figures 2 through 5. Current and historical groundwater gradient data are presented in Table 3 and historical groundwater flow direction is depicted in a rose diagram as Figure 6. Well construction details are presented in Table 4.

Contaminant Concentrations

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

Dissolved GRO, BTEX, and MtBE

During the second quarter 2008 monitoring and sampling event, well MW-2 contained the greatest concentrations of GRO, benzene, and MtBE at 13,000 µg/L, 1,700 µg/L, and 2,500 µg/L, respectively. Additionally, concentrations of GRO were detected on-site in wells MW-1 (1,300 µg/L), MW-7 (53 µg/L), and MW-9 (5,300 µg/L) and south of the site in well MW-5 (4,600 µg/L). During the current quarter, benzene was additionally detected on-site in wells MW-1 (170 µg/L) and MW-9 (390 µg/L). MtBE was additionally detected in site wells MW-1 and MW-6 through MW-9 and off-site in MW-5 and MW-10 with concentrations ranging from 2.2 µg/L (MW-10) to 1,200 µg/L (MW-9). During the second quarter 2008, toluene was detected in wells MW-1 and MW-9 with a maximum concentration of 22 µg/L in MW-9; ethylbenzene was detected in wells MW-1, MW-2, and MW-9 with a maximum concentration of 300 µg/L in well MW-2; xylenes were detected in wells MW-1, MW-2, and MW-9 with a maximum concentration of 210 µg/L in MW-2.

Dissolved Other Fuel Oxygenates and Lead Scavengers

TBA was detected in each on-site well up to a maximum concentration of 42,000 µg/L in MW-4 during the second quarter 2008. TAME was detected in wells MW-1 (1.4 µg/L), MW-2 (60 µg/L), MW-6 (0.95 µg/L), MW-7 (0.96 µg/L), and MW-9 (33 µg/L) during the second quarter 2008. Additionally, DIPE was detected in well MW-2 at 140 µg/L. Other oxygenates (EtBE, and ethanol) and lead scavengers (1,2-DCA, and EDB) were not detected at or above laboratory method reporting limits (MRLs).

Dissolved DRO and TOG

Well MW-3 has historically been analyzed for DRO and TOG since 1992. Consistent with historical data, DRO was detected in well MW-3 at a concentration of 1,100 µg/L, while TOG was not detected at or above laboratory MRLs during the second 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-3, MW-6, and MW-7. The lateral extent of affected groundwater has not been delineated north of well MW-8, and to the east and southeast of the site. The presence of dissolved DRO has not been delineated in the vicinity of well MW-3. Review of historical investigations indicates that the vertical extent of dissolved contaminants has not been investigated beyond the maximum completed depth of the wells at 17 feet below ground surface (bgs).

PURGE AND RINSATE WATER DISPOSAL

Approximately 46 gallons of groundwater generated during the second quarter 2008 was pumped into a Stantec truck-mounted water tank. The water was then transferred into 55-gallon, steel, California Department of Transportation (DOT)-approved drums pending waste characterization and transport by Belshire Environmental Services Inc. to DeMenno Kerdoon in Compton California for disposal. The waste manifest for the disposal of the drum is not available at this time.

REMEDIAL RECOMMEDATIONS

A remedial action plan proposing oxygen injection as an appropriate treatment technology to address source area contamination at the site was submitted to the ACEHD on March 30, 2007. To date Stantec has not received any correspondence from ACEHD regarding this proposal.

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.

Sincerely,
Stantec Consulting Corporation

Prepared by:

Catherine Francini for

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

Brad Shelton, P.G.
Associate Geologist

Date: June 19, 2008

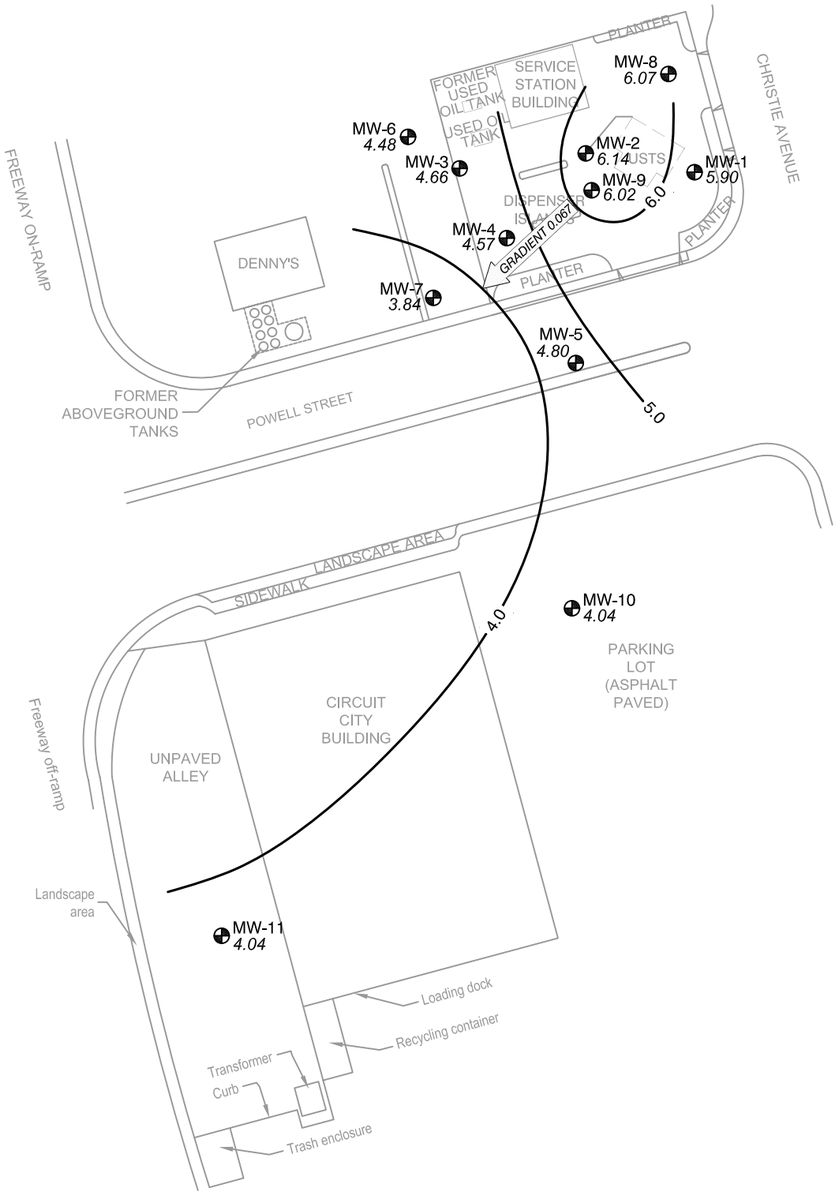
Figure 1 – Groundwater Elevation Contour Map – May 23, 2008
Figure 2 – GRO Isoconcentration Contour Map – May 23, 2008
Figure 3 – Benzene Isoconcentration Contour Map – May 23, 2008
Figure 4 – MtBE Isoconcentration Contour Map – May 23, 2008
Figure 5 – TBA Isoconcentration Contour Map – May 23, 2008
Figure 6 – Groundwater Flow Direction Rose Diagram

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

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

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

Figures



LEGEND:

MW-1 — GROUNDWATER MONITORING WELL LOCATION

GRADIENT — APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

4.0 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)

4.04 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

N

0 80 160

SCALE IN FEET

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

Stantec

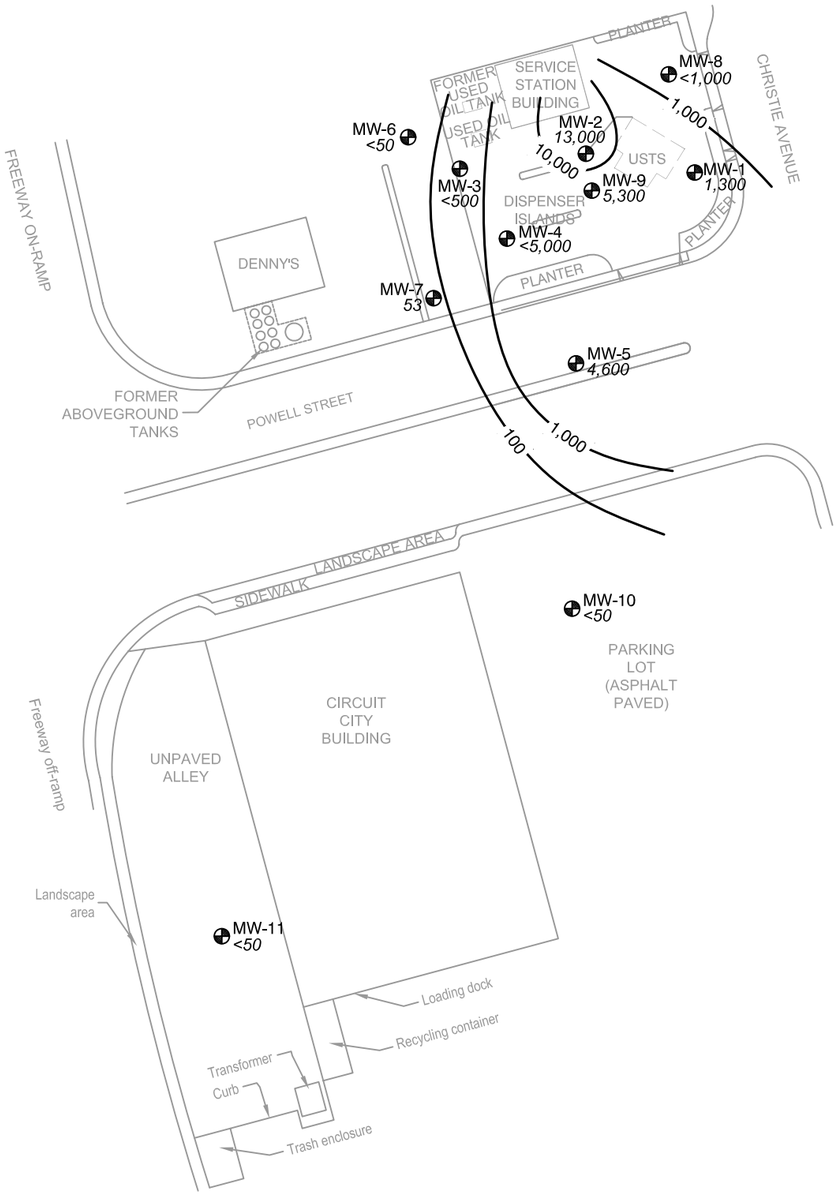
FOR:
76 (FORMER BP)
SERVICE STATION NO. 11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP MAY 23, 2008

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77BP.11126.02 77CP.01731.41	M. RAMIREZ/STA	Kimber C.	Brad S.	06/17/08

FILEPATH:M:\BP-ARCO\11126\AUTOPOST 2008\2Q 2008\FIG1-11126-GW ELEV.dwg|saguinaldo|Jun 19, 2008 at 14:19|Layout: 11x17



LEGEND:

MW-1 ⊕	GROUNDWATER MONITORING WELL
100	GRO ISOCONCENTRATION CONTOUR
53	GRO CONCENTRATION (µg/L)
GRO	GASOLINE RANGE ORGANICS
µg/L	MICROGRAMS PER LITER

N

0 80 160

SCALE IN FEET

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

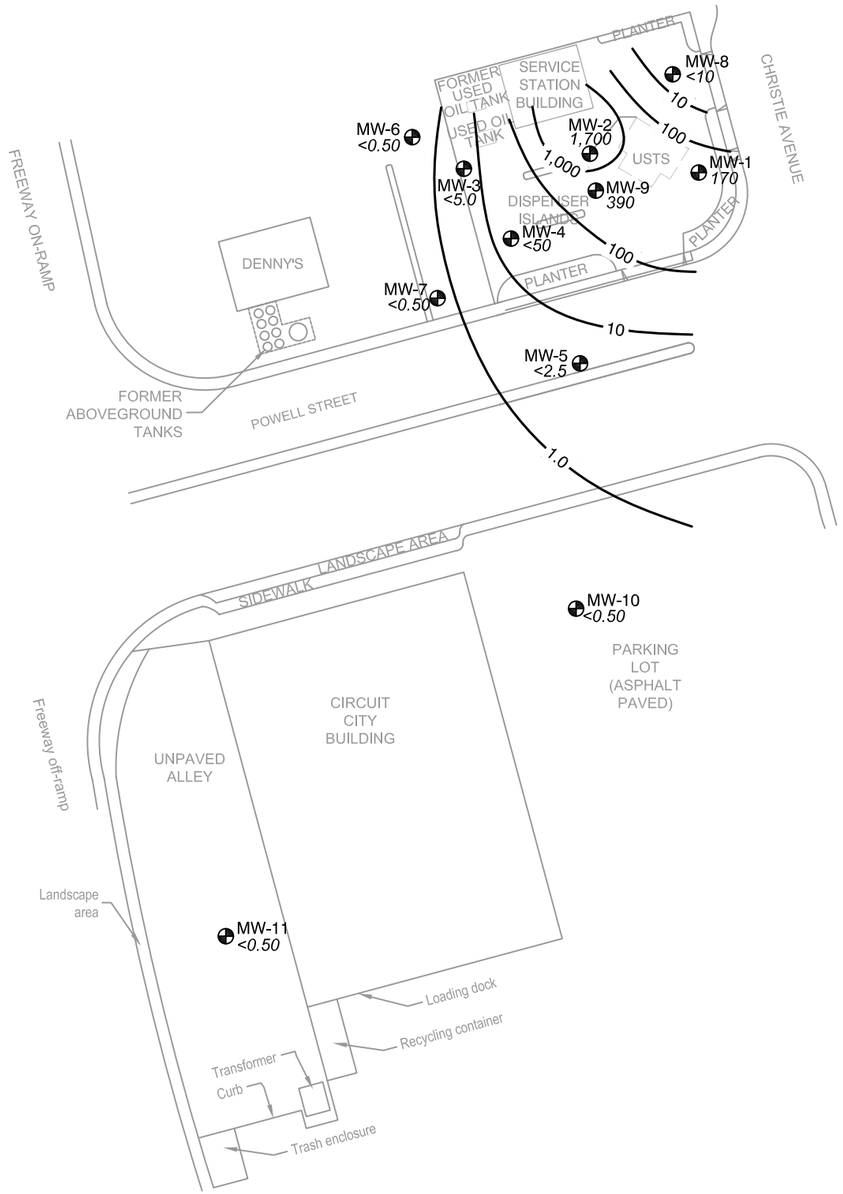
Stantec

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

GRO ISOCONCENTRATION CONTOUR MAP MAY 23, 2008

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77BP.11126.02 77CP.01731.41	M. RAMIREZ/STA	Kimber C.	Brad S.	06/17/08



LEGEND:

MW-1 ⊕	GROUNDWATER MONITORING WELL
10	BENZENE ISOCONCENTRATION CONTOUR
170	BENZENE CONCENTRATION (µg/L)
µg/L	MICROGRAMS PER LITER

N

0 80 160

SCALE IN FEET

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

Stantec

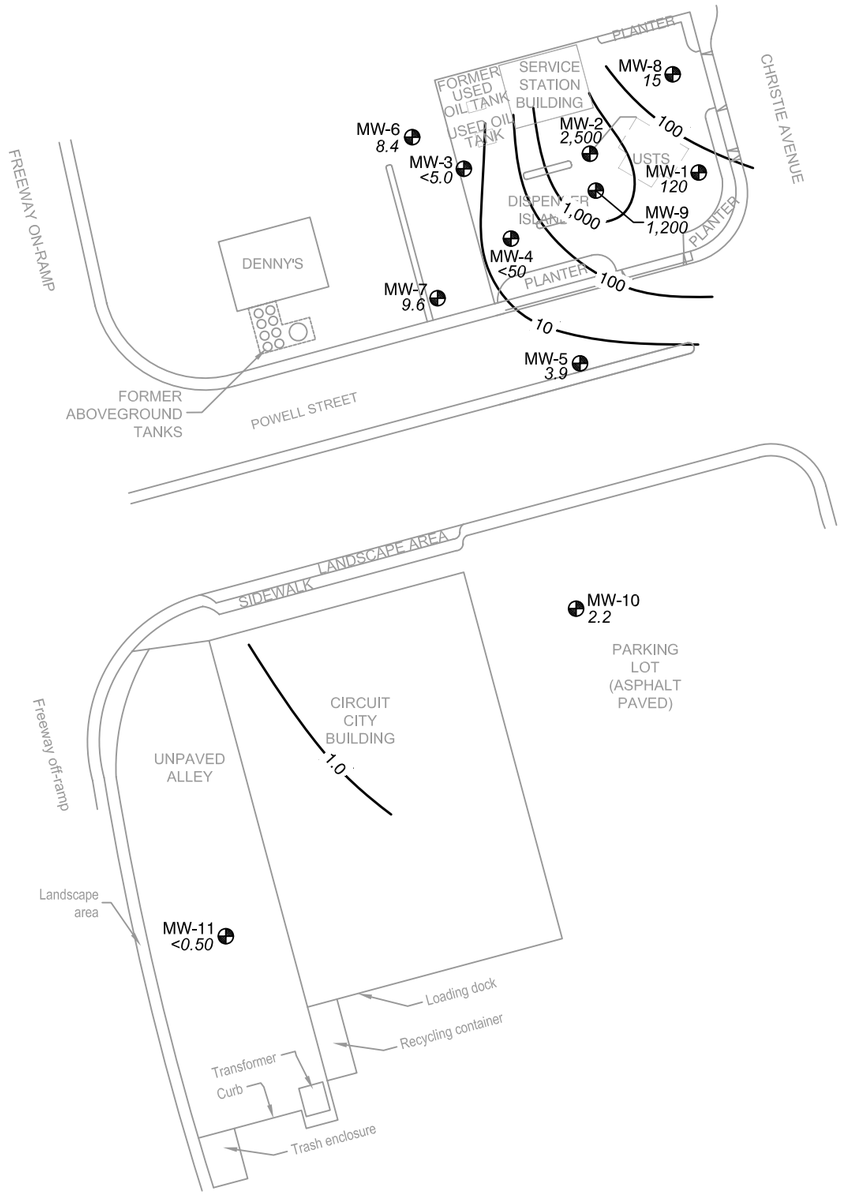
FOR:
76 (FORMER BP)
SERVICE STATION NO. 11126
1700 POWELL STREET
EMERYVILLE, CALIFORNIA

BENZENE ISOCONCENTRATION CONTOUR MAP MAY 23, 2008

FIGURE: **3**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77BP.11126.02 77CP.01731.41	M. RAMIREZ/STA	Kimber C.	Brad S.	06/17/08

FILEPATH:M:\BP-ARCO\11126\AUTOPOST 2008\2Q 2008\FIG3-11126-BENZ.dwg|saguinaldo|Jun 19, 2008 at 14:20|Layout: 11x17



LEGEND:

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

N

0 80 160

SCALE IN FEET

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

Stantec

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

MTBE ISOCONCENTRATION CONTOUR MAP MAY 23, 2008

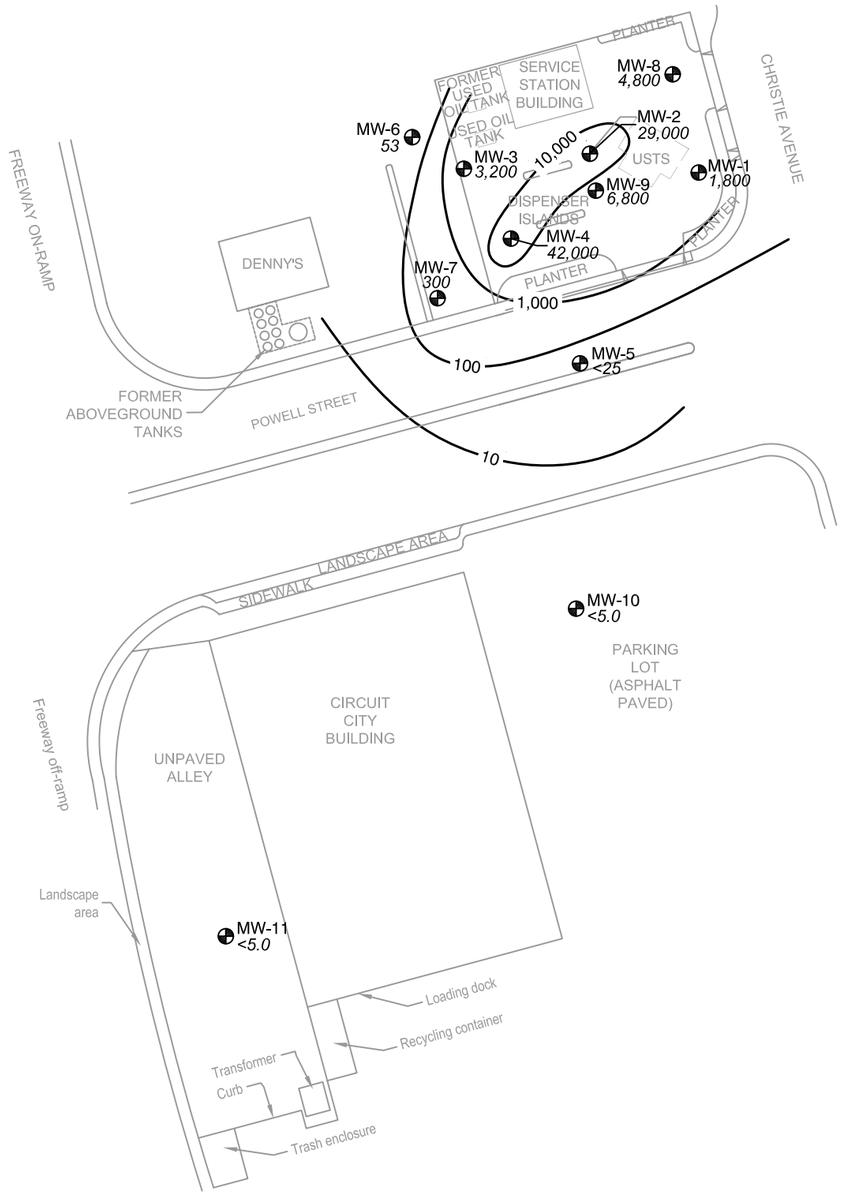
FIGURE: **4**

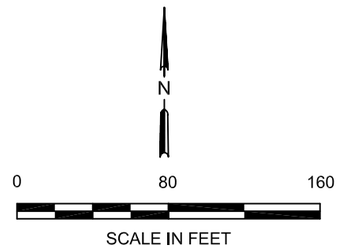
JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77BP.11126.02 77CP.01731.41	M. RAMIREZ/STA	Kimber C.	Brad S.	06/17/08

FILEPATH:M:\BP-ARCO\11126\AUTOPOST 2008\2Q 2008\FIG4-11126-MTBe.dwg|saguinaldo|Jun 19, 2008 at 14:22|Layout: 11x17

LEGEND:

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





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

Stantec

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

TBA ISOCONCENTRATION CONTOUR MAP MAY 23, 2008

FIGURE: **5**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
77BP.11126.02 77CP.01731.41	M. RAMIREZ/STA	Kimber C.	Brad S.	06/17/08

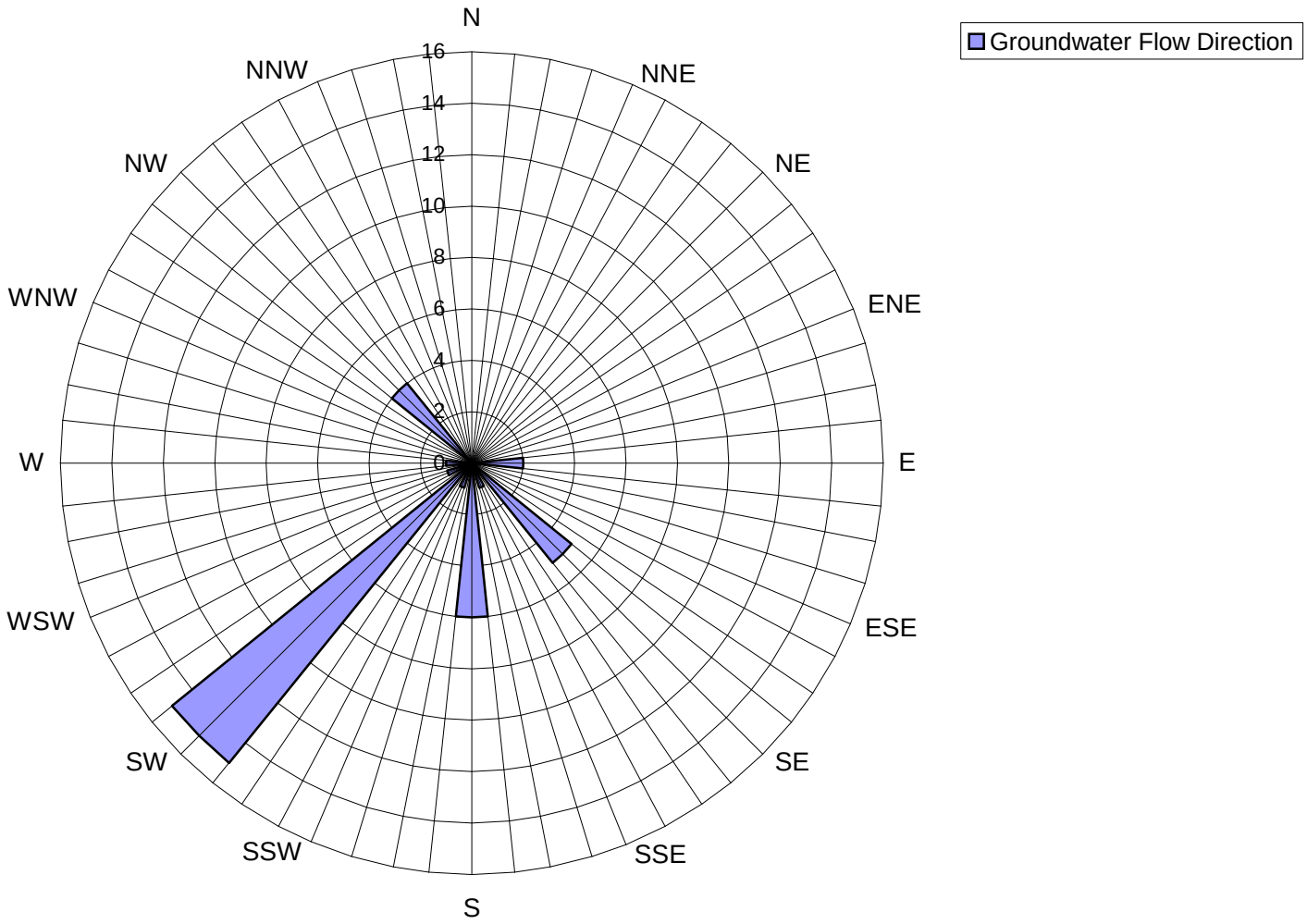
FILEPATH:M:\BP-ARCO\11126\AUTOPOST 2008\2Q 2008\FIG5-11126-TBA.dwg|saguinaldo|Jun 19, 2008 at 14:23|Layout: 11x17

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

Legend:

Each concentric gridline represents the number of monitoring events.

Diagram includes data from the First Quarter 2001 through the Second Quarter 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	05/23/08		10.16	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	-	
MW-2	05/23/08		11.39	5.25	0.00	6.14	**13,000**	-	-	**1,700**	<50	**300**	**210**	**2,500**	**29,000**	**140**	<50	**60**	<25,000	<50	<50	-	
MW-3	05/23/08		10.73	6.07	0.00	4.66	<500	**1,100**	<2.0	<5.0	<5.0	<5.0	<10	<5.0	**3,200**	<10	<5.0	<5.0	<2,500	<5.0	<5.0	-	
MW-4	05/23/08		10.58	6.01	0.00	4.57	<5000	-	-	<50	<50	<50	<100	<50	**42,000**	<100	<50	<50	<25,000	<50	<50	-	
MW-5	05/23/08		10.18	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	-	
MW-6	05/23/08		11.01	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	-	
MW-7	05/23/08		10.11	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	-	
MW-8	05/23/08		11.08	5.01	0.00	6.07	<1000	-	-	<10	<10	<10	<20	**15**	**4,800**	<20	<10	<10	<5,000	<10	<10	-	
MW-9	05/23/08		10.55	4.53	0.00	6.02	**5,300**	-	-	**390**	**22**	**130**	**68**	**1,200**	**6,800**	<25	<12	**33**	<6,200	<12	<12	-	
MW-10	05/23/08		12.53	8.49	0.00	4.04	<50	-	-	<0.50	<0.50	<0.50	<1.0	**2.2**	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	
MW-11	05/23/08		14.55	10.51	0.00	4.04	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	
QCTB	05/23/08		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	

Notes:

GRO = Gasoline range organics
DRO = Diesel range organics
TOG = Total petroleum hydrocarbons as oil and grease
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl tert-butyl ether
TBA = Tert-butyl alcohol
DIPE = Di-isopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = Tert-amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
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)
- = 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		7.76	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		7.76	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		7.76	3.05	0.00	4.71	220	-	-	7.0	<0.50	1.0	23	-	-	-	-	-	-	-	-	-	6.6	
	04/13/95			3.84	0.00	3.92	9,300	-	-	4,000	300	200	950	-	-	-	-	-	-	-	-	-	7.7	
	07/11/95			3.60	0.00	4.16	15,000	-	-	2,200	84	<25	2,500	-	-	-	-	-	-	-	-	-	8.8	
	11/02/95			4.58	0.00	3.18	19,000	-	-	920	<100	<100	430	52,000	-	-	-	-	-	-	-	-	7.3	
	02/05/96			4.43	0.00	3.33	4,600	-	-	1,400	330	54	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		7.76	-	-	-	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	-	-	-	-	-	-	-	-	-	
	12/28/01			5.27	0.00	2.49	4,000	-	-	540	12	20	65	1,120	-	-	-	-	-	-	-	-	-	
	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	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used

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	02/19/03		7.76	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	-	-	-	-	Past holding time
	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	-	-	Well purged dry
	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**	**-**	-	
MW-2	11/04/92	DUP	-	-	-	-	12,000	-	-	3,200	980	<0.50	1,900	-	-	-	-	-	-	-	-	-	-	
	11/04/92		8.56	5.88	0.00	2.68	12,000	-	-	3,900	1,300	<0.50	2,300	-	-	-	-	-	-	-	-	-	-	
	10/12/93			6.29	0.00	2.27	4,500	-	-	3,400	180	230	940	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		8.56	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		8.56	4.37	0.00	4.19	33,000	-	-	8,000	2,500	1,100	6,600	-	-	-	-	-	-	-	-	-	7.5	
	07/11/95	DUP	-	-	-	-	28,000	-	-	6,800	1,000	900	4,900	-	-	-	-	-	-	-	-	-	-	
	07/11/95		8.56	4.51	0.00	4.05	19,000	-	-	3,300	99	7.5	4,600	-	-	-	-	-	-	-	-	-	7.8	
	11/02/95	DUP	-	-	-	-	22,000	-	-	4,000	1,200	600	2,700	19,000	-	-	-	-	-	-	-	-	-	
	11/02/95		8.56	5.55	0.00	3.01	20,000	-	-	3,800	1,200	570	2,700	15,000	-	-	-	-	-	-	-	-	7.3	
	02/05/96	DUP	-	-	-	-	910	-	-	290	180	19	137	93	-	-	-	-	-	-	-	-	-	
	02/05/96		8.56	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		8.56	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	11/05/96	DUP	-	-	-	-	9,200	-	-	1,300	170	<25	2,240	1,100	-	-	-	-	-	-	-	-	-	
	11/05/96		8.56	-	-	-	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	-	-	
	08/26/04			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**	**-**	-	

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-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		8.25	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			5.53	0.00	2.72	60	840	7,600	<1.0	<1.0	<1.0	<1.0	19	-	-	-	-	-	-	-	-	-	
	06/23/99			6.60	0.00	1.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			6.17	0.00	2.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			6.00	0.00	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			4.77	0.00	3.48	690	<58	13,000	4.2	3.1	0.81	2.7	2,900	-	-	-	-	-	-	-	-	-	
	05/26/00			5.28	0.00	2.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			5.58	0.00	2.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			11.74	0.00	-3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DTW anomalous
	03/29/01			5.04	0.00	3.21	650	<50	6,540	<2.5	<2.5	<2.5	<7.5	680	-	-	-	-	-	-	-	-	-	
	06/27/01			5.62	0.00	2.63	460	690	<5,000	<2.5	<2.5	<2.5	<7.5	560	-	-	-	-	-	-	-	-	-	
	09/19/01			5.80	0.00	2.45	<500	520	<5,000	<5.0	<5.0	<5.0	<15	464	-	-	-	-	-	-	-	-	-	
	12/28/01			4.85	0.00	3.40	180	550	<5,000	<0.50	<0.50	<0.50	<1.0	180	-	-	-	-	-	-	-	-	-	
	03/12/02			4.39	0.00	3.86	410	1,300	<5,000	<2.5	<2.5	<2.5	<5.0	443	-	-	-	-	-	-	-	-	-	
	06/13/02			5.38	0.00	2.87	<250	2,600	<5,000	<2.5	<2.5	<2.5	<5.0	395	-	-	-	-	-	-	-	-	-	
	09/06/02			5.68	0.00	2.57	<200	-	-	<2.0	<2.0	<2.0	<2.0	650	-	-	-	-	-	-	-	-	-	
	12/13/02			5.37	0.00	2.88	<50	980	7,000	<0.50	<0.50	<0.50	<0.50	60	-	-	-	-	-	-	-	-	-	EPA 8015B/8021B used
	02/19/03			4.80	0.00	3.45	<1,000	380	6,700	<10	<10	<10	<!0	120	-	-	-	-	-	-	-	-	-	
	06/06/03			5.13	0.00	3.12	<500	620	7.9	<5.0	<5.0	<5.0	<5.0	180	<200	<5.0	<5.0	16	<1,000	-	-	-	-	
	08/07/03			5.43	0.00	2.82	<500	820 N	5.4	5.7	<5.0	<5.0	<5.0	290	<200	<5.0	<5.0	20	<1,000	<5.0	<5.0	-	-	
	11/20/03			4.72	0.00	3.53	<50	1,200 N	-	<0.50	<0.50	<0.50	<0.50	17	<20	<0.50	<0.50	1.4	<100	-	-	-	-	
	04/28/04			4.87	0.00	3.38	<100	240 N	-	<1.0	<1.0	<1.0	<1.0	87	<40	<1.0	<1.0	3.9	<200	<1.0	<1.0	-	-	
	08/26/04			5.42	0.00	2.83	56	250 N	-	<0.50	<0.50	<0.50	<0.50	34	260	<0.50	<0.50	2.0	<100	<0.50	<0.50	-	-	

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

Well No.	Date	Notes	TOC 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-3	12/01/04		8.25	5.69	0.00	2.56	<100	690	-	<1.0	<1.0	<1.0	<1.0	7.4	610	<1.0	<1.0	<1.0	<200	<1.0	<1.0	-	-	
	02/02/05			4.72	0.00	3.53	<100	730	-	<1.0	<1.0	<1.0	<1.0	20	<40	<1.0	<1.0	1.1	<200	<1.0	<1.0	-	-	
	04/25/05		10.73	4.75	0.00	5.98	<250	520	-	<2.5	<2.5	<2.5	<2.5	220	160	<2.5	<2.5	10	<500	<2.5	<2.5	-	-	
	09/30/05			5.30	0.00	5.43	<50	300 N	-	<0.50	<0.50	<0.50	<1.0	8.2	270	<0.50	<0.50	0.68	<50	<0.50	<0.50	-	-	
	12/28/05			4.41	0.00	6.32	<50	100	<2.0	<0.50	<0.50	<0.50	<1.0	0.66	<5.0	<1.0	<0.50	<0.50	<100	<0.50	-	-	-	
	03/23/06			4.43	0.00	6.30	<50	260	<2.0	<0.50	<0.50	<0.50	<1.0	13	130	<1.0	<0.50	0.63	<100	<0.50	<0.50	-	-	
	06/05/06			4.95	0.00	5.78	61	340	<2.0	0.69	1.4	0.85	3.6	29	510	<1.0	<0.50	1.6	<100	<0.50	<0.50	-	-	
	09/19/06			5.19	0.00	5.54	<50	330	<2.0	<0.50	<0.50	<0.50	<1.0	4.1	420	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	12/01/06			5.37	0.00	5.36	<50	130	<2.0	<0.50	<0.50	<0.50	<1.0	2.0	250	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	03/01/07			4.62	0.00	6.11	<50	120	<2.0	<0.50	<0.50	<0.50	<1.0	3.8	77	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	06/01/07			5.53	0.00	5.20	<50	350	<2.0	<0.50	<0.50	<0.50	<1.0	3.7	320	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	09/13/07			6.17	0.00	4.56	<250	1,200	<2.0	<2.5	<2.5	<2.5	<5.0	2.6	2,000	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	
	11/21/07			6.16	0.00	4.57	<250	1,600	<2.0	<2.5	<2.5	<2.5	<5.0	3.4	2,600	<5.0	<2.5	<2.5	<1,300	<2.5	<2.5	-	-	
	02/29/08			5.38	0.00	5.35	<50	350	<2.0	<0.50	<0.50	<0.50	<1.0	0.90	540	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	05/23/08			**6.07**	**0.00**	**4.66**	**<500**	**1,100**	**<2.0**	**<5.0**	**<5.0**	**<5.0**	**<10**	**<5.0**	**3,200**	**<10**	**<5.0**	**<5.0**	**<2,500**	**<5.0**	**<5.0**	**-**	-	
MW-4	11/04/92		8.12	6.66	0.00	1.46	340	-	-	4.5	<0.50	4.3	<0.50	-	-	-	-	-	-	-	-	-	-	
	10/12/93			6.87	0.00	1.25	160	-	-	5.8	1.4	0.80	2.7	261	-	-	-	-	-	-	-	-	-	
	02/15/94			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	<10	<10	<10	200	-	-	-	-	-	-	-	-	4.4	
	04/24/96			6.18	0.00	1.94	<250	-	-	<2.5	<5.0	<5.0	<5.0	510	-	-	-	-	-	-	-	-	8.3	
	07/15/96			6.63	0.00	1.49	<50	-	-	5.7	<1.0	<1.0	<1.0	550	-	-	-	-	-	-	-	-	7.4	
	07/30/96			6.34	0.00	1.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/04/96			8.27	0.00	-0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	460	-	-	<2.5	11	<5.0	<5.0	620	-	-	-	-	-	-	-	-	7.3	
	05/17/97			7.00	0.00	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/11/97			6.81	0.00	1.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97			9.19	0.00	-1.07	840	-	-	<0.50	<1.0	<1.0	<1.0	880	-	-	-	-	-	-	-	-	7.3	
	01/29/98			7.94	0.00	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/22/98			7.49	0.00	0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/30/98			8.21	0.00	-0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			7.70	0.00	0.42	1,200	-	-	<1.0	<1.0	<1.0	<1.0	2,000	-	-	-	-	-	-	-	-	-	
	06/23/99			8.81	0.00	-0.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			8.32	0.00	-0.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			8.21	0.00	-0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			6.74	0.00	1.38	910	-	-	<0.50	<0.50	0.54	1.7	3,800	-	-	-	-	-	-	-	-	-	
	05/26/00			5.13	0.00	2.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			8.20	0.00	-0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			8.31	0.00	-0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	03/29/01	INA	8.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	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	-	-	-	-	
	04/28/04			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**	**-**	-	
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	

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	11/04/96		7.69	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	
	06/22/98			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	-	-	
MW-5	**05/23/08**		10.18	**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-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	-	-	-	-	
	08/07/03			5.94	0.00	2.58	<500	-	-	<5.0	<5.0	<5.0	<5.0	160	<200	<5.0	<5.0	20	<1,000	<5.0	<5.0	-	-	
	11/20/03			5.85	0.00	2.67	95	-	-	<0.50	<0.50	<0.50	<0.50	74	<20	<0.50	<0.50	12	<100	-	-	-	-	
	04/28/04			5.45	0.00	3.07	<250	-	-	<2.5	<2.5	<2.5	<2.5	120	<100	<2.5	<2.5	12	<500	<2.5	<2.5	-	-	
	08/26/04			6.06	0.00	2.46	<250	-	-	<2.5	<2.5	<2.5	<2.5	110	<100	<2.5	<2.5	12	<500	<2.5	<2.5	-	-	
	12/01/04			6.19	0.00	2.33	<250	-	-	<2.5	<2.5	<2.5	<2.5	86	<100	<2.5	<2.5	11	<500	<2.5	<2.5	-	-	

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	02/02/05		8.52	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**	**-**	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/30/98			5.51	0.00	2.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/09/99			5.57	0.00	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	06/23/99			6.69	0.00	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/23/99			6.23	0.00	1.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/28/99			6.08	0.00	1.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/22/00			4.88	0.00	2.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/26/00			5.42	0.00	2.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	09/15/00			5.79	0.00	1.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	12/11/00			5.93	0.00	1.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	03/29/01			5.24	0.00	2.37	600	-	-	<2.5	<2.5	<2.5	<7.5	636	-	-	-	-	-	-	-	-	-	
	06/27/01			5.69	0.00	1.92	590	-	-	<2.5	<2.5	<2.5	<7.5	739	-	-	-	-	-	-	-	-	-	

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	09/19/01		7.61	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**	**-**	-	
MW-8	10/12/93		8.60	5.86	0.00	2.74	<50	-	-	<0.50	<0.50	<0.50	<0.50	11	-	-	-	-	-	-	-	-	-	
	02/15/94			5.50	0.00	3.10	380	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	-	-	-	-	-	3.3	
	05/11/94			5.09	0.00	3.51	330	-	-	<0.50	1.2	<0.50	1.9	<5.0	-	-	-	-	-	-	-	-	8.5	
	08/01/94			5.20	0.00	3.40	260	-	-	<0.50	1.2	2.9	5.8	<5.0	-	-	-	-	-	-	-	-	2.3	
	10/18/94			5.70	0.00	2.90	82	-	-	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	-	-	-	-	-	-	6.4	
	01/13/95			4.96	0.00	3.64	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	6.9	
	04/13/95			5.40	0.00	3.20	270	-	-	<0.50	<0.50	<0.50	4.4	-	-	-	-	-	-	-	-	-	8.4	
	07/11/95			6.01	0.00	2.59	320	-	-	<0.50	<0.50	<0.50	3.5	-	-	-	-	-	-	-	-	-	8.0	
	11/02/95			6.81	0.00	1.79	100	-	-	<0.50	<0.50	<0.50	<1.0	<5.0	-	-	-	-	-	-	-	-	8.7	
	02/05/96			6.12	0.00	2.48	<50	-	-	<5.0	<10	<10	<10	<100	-	-	-	-	-	-	-	-	1.5	
	04/24/96			6.23	0.00	2.37	<50	-	-	<5.0	<10	<10	<10	<100	-	-	-	-	-	-	-	-	8.7	
	07/15/96			6.70	0.00	1.90	<250	-	-	<2.5	<5.0	<5.0	<5.0	<50	-	-	-	-	-	-	-	-	8.4	
	07/30/96			6.64	0.00	1.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/04/96			8.36	0.00	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/05/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	7.2	
	05/17/97			7.03	0.00	1.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/11/97			6.05	0.00	2.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/17/97			9.14	0.00	-0.54	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	7.7	

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	01/29/98		8.60	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	-	-	-	-	
	04/28/04			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	-	-	
	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	<50	30	34,000	<50	<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	-	-	Well purged dry
	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**	**-**	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	01/13/95		8.08	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		8.08	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		8.08	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		8.08	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	-	-	-	-	-	-	-	-	-	
	06/22/98		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	DUP	-	-	-	-	290,000	-	-	20,000	17,000	3,800	21,200	110,000	-	-	-	-	-	-	-	-	-	
	12/30/98		8.08	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	-	-	

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	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	-	-	
	05/23/08			**4.53**	**0.00**	**6.02**	**5,300**	**-**	**-**	**390**	**22**	**130**	**68**	**1,200**	**6,800**	**<25**	**<12**	**33**	**<6,200**	**<12**	**<12**	**-**	-	
MW-10	04/25/05		12.53	8.37	0.00	4.16	<50	-	-	<0.50	<0.50	<0.50	<0.50	1.5	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	-	-	
	09/30/05			8.41	0.00	4.12	<50	-	-	<0.50	<0.50	<0.50	<1.0	1.5	<5.0	<0.50	<0.50	<0.50	<50	<0.50	<0.50	-	-	
	12/28/05			7.78	0.00	4.75	<50	-	-	<0.50	<0.50	<0.50	<1.0	0.78	<5.0	<1.0	<0.50	<0.50	<100	<0.50	-	-	-	
	03/23/06			7.77	0.00	4.76	<50	-	-	<0.50	<0.50	<0.50	<1.0	0.67	<5.0	<1.0	<0.50	<0.50	<100	<0.50	<0.50	-	-	
	06/05/06			8.38	0.00	4.15	<50	-	-	<0.50	<0.50	<0.50	<1.0	1.8	<5.0	<1.0	<0.50	<0.50	<100	<0.50	<0.50	-	-	
	09/19/06			7.99	0.00	4.54	<50	-	-	<0.50	<0.50	<0.50	<1.0	0.59	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	12/01/06			5.47	0.00	7.06	<50	-	-	<0.50	<0.50	<0.50	<1.0	0.89	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	Well purged dry
	03/01/07			7.92	0.00	4.61	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	06/01/07			8.55	0.00	3.98	<50	-	-	<0.50	<0.50	<0.50	<1.0	1.2	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	09/13/07			8.71	0.00	3.82	<50	-	-	<0.50	<0.50	<0.50	<1.0	0.94	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	11/21/07			8.84	0.00	3.69	<50	-	-	<0.50	<0.50	<0.50	<1.0	2.2	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	02/29/08			8.20	0.00	4.33	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	05/23/08			**8.49**	**0.00**	**4.04**	**<50**	**-**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**2.2**	**<5.0**	**<1.0**	**<0.50**	**<0.50**	**<250**	**<0.50**	**<0.50**	**-**	-	
MW-11	04/25/05		14.55	9.29	0.00	5.26	<50	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	<100	<0.50	<0.50	-	-	
	09/30/05			10.23	0.00	4.32	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<0.50	<0.50	<0.50	<50	<0.50	<0.50	-	-	
	12/28/05			9.09	0.00	5.46	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<100	<0.50	-	-	-	
	03/23/06			8.75	0.00	5.80	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<100	<0.50	<0.50	-	-	
	06/05/06			9.47	0.00	5.08	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<100	<0.50	<0.50	-	-	
	09/19/06			10.16	0.00	4.39	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	12/01/06			10.46	0.00	4.09	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	03/01/07			9.62	0.00	4.93	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	06/01/07			9.97	0.00	4.58	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	09/13/07			10.42	0.00	4.13	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	11/21/07			10.64	0.00	3.91	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	02/29/08			9.76	0.00	4.79	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<1.0	<0.50	<0.50	<250	<0.50	<0.50	-	-	
	05/23/08			**10.51**	**0.00**	**4.04**	**<50**	**-**	**-**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<0.50**	**<5.0**	**<1.0**	**<0.50**	**<0.50**	**<250**	**<0.50**	**<0.50**	**-**	-	
QC-2	11/05/92		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	
	10/12/93			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	
	02/15/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	
	05/11/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	
	08/01/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	
	10/18/94			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<0.50	-	-	-	-	-	-	-	-	-	-	

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	01/13/95		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	
	04/13/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	
	07/11/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	-	-	-	-	-	-	-	-	-	-	
	11/02/95			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<5.0	-	-	-	-	-	-	-	-	-	
	02/05/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	
	04/24/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	
	07/16/96			-	-	-	<50	-	-	<0.50	<1.0	<1.0	<1.0	<10	-	-	-	-	-	-	-	-	-	
QCTB	09/30/05		-	-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	12/28/05			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	03/23/06			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	06/05/06			-	-	-	50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	09/19/06			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	12/01/06			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	03/01/07			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	06/01/07			-	-	-	<50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	-	-	-	-	-	-	-	-	-	
	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**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	-	

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**
		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)

Notes:

Number of monitoring events: 30

- The groundwater was flowing in two directions (Northwest and Southeast) during the second quarter of 2002, the fourth quarter of 2003, and the first and fourth quarters of 2004.
- Data included in this table were found from current and historical documents.

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

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

Notes:

TOC = top of casing

MSL = mean sea level

bgs = below ground surface

Elevations are in US survey feet, Vertical Datum is NGVD29

ATTACHMENT A
PREVIOUS INVESTIGATIONS AND SITE HISTORY SUMMARY

Quarterly Groundwater Monitoring Progress Report – Second Quarter 2008
76 (Former BP) Service Station No.11126
1700 Powell Street
Emeryville, California

PREVIOUS INVESTIGATIONS AND SITE HISTORY SUMMARY

A soil gas survey was conducted on April 10, 1989 by Target Environmental Services, Inc. (TES) on behalf of Mobil Oil Corporation (Mobil) prior to the transfer of ownership of the property to BP. Soil gas samples were collected from 19 sampling points at an approximate depth of four feet below ground surface (bgs) across the site. Results indicated that gasoline may have entered the site subsurface at the pump islands, UST complex, or along the product supply lines. Total volatile hydrocarbons were detected in soil vapor using a flame-ionization detector (FID) at concentrations up to 932,000 micrograms per Liter (µg/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 µg/L and 3,400 µg/L, respectively. Well MW-9, which is located in the area of the product dispensers contained liquid phase hydrocarbons (LPH) at an initial thickness of 0.08 feet. A product

recovery canister was subsequently installed to assist in the removal of LPH from beneath the site. The direction of groundwater flow was generally toward the east to southeast. Off-site sources identified in the site vicinity included former Pabco Products, a paint, roofing, and floor coverings manufacturing facility, which stored oil in aboveground storage tanks (ASTs) at the site (located on and northeast of the site); former Auto Freight Depot (southeast corner of Shellmound Road and Powell Street, approximately 450 feet east of the site); former Truck Repair Shop (approximately 480 feet east to southeast of the site), which stored diesel and gasoline in ASTs; and former Pacific Intermountain Express Truck Terminal (approximately 440 feet southeast of the site), which utilized ASTs and USTs.

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

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

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

Quarterly Groundwater Monitoring Progress Report – Second Quarter 2008
76 (Former BP) Service Station No.11126
1700 Powell Street
Emeryville, California

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.

SECOR International Incorporated

HYDROLOGIC DATA SHEET

Gauge Date: 5-23-08 **Project Name:** *76 Former BP 11126*

Field Technician: Raymond Gerke **Project Number:** *77BP.11126.02.0427/ 77CP.01731.41.1006*

TOC = Top of Well Casing Elevation
DTP = Depth to Free Product (FP or NAPH) 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	DTP	DTW	DTB	DIA	ELEV	PURGE & SAMPLE 2Q08	SHEEN CONFIRMATION (w/bailer)	COMMENTS
9 MW-1	640		4.26	12	2.0		Yes		
11 MW-2	659		5.25	12	2.0		Yes		
5 MW-3	607		6.07	12	2.0		Yes		
7 MW-4	624		6.01	12	2.0		Yes		
8 MW-5	558		5.38	13.5	4.0		Yes		
3 MW-6	550		6.53	14	2.0		Yes		
4 MW-7	558		6.27	14	2.0		Yes		
6 MW-8	615		5.01	14	2.0		Yes		
10 MW-9	650		4.53	14	4.0		Yes		
2 MW-10	540		5.49	20	2.0		Yes		
1 MW-11	530		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-2

CLIENT NAME: 76 (Former BP) #11126 | SAMPLED BY: RG | SAMPLE I.D.:

LOCATION: 1700 Powell St., Emeryville CA | QA SAMPLES:

DATE GAUGED 5-23-08 | START (2400hr) 1205 | END (2400hr) 1217

DATE SAMPLED 5-23-08 | SAMPLE TIME (2400hr) 1230

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) = 1.14

DEPTH TO WATER (feet) = 5.25 | CALCULATED PURGE (gal) = 3.44

WATER COLUMN HEIGHT (feet) = 6.75 | ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	1211	1	19.2	16.99	6.75	Cloudy	1100
	1214	2	19.1	1736	6.78		"
	1217	3					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.29 | SAMPLE TURBIDITY: 1100

80% RECHARGE: ✓ YES ___ NO | ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated

Other: disposable

Pump Depth:

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ✓ Bailer (___ PVC or ✓ disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated

Other:

WELL INTEGRITY: Good | LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Soto | 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 5-23-08 | START (2400hr) 1240 | END (2400hr)
DATE SAMPLED 5-23-08 | SAMPLE TIME (2400hr) 1300
SAMPLE TYPE: Groundwater X | Surface Water | Treatment Effluent | Other

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

DEPTH TO BOTTOM (feet) = 14.00 | CASING VOLUME (gal) = ~~1.00~~ 6.34
DEPTH TO WATER (feet) = 4.53 | CALCULATED PURGE (gal) = ~~4.8~~ 19.03
WATER COLUMN HEIGHT (feet) = 9.47 | ACTUAL PURGE (gal) =

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	1249	6	20.1	1138	6.81	Cloudy	487.9
	~~1252~~	12					
		18					

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 4.57 | SAMPLE TURBIDITY: 404.7

80% RECHARGE: ✓ YES ___ NO | ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: None | SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

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

SAMPLING EQUIPMENT

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

WELL INTEGRITY: Good | LOCK#: yes

REMARKS:

SIGNATURE: | 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 5-23-08 START (2400hr) 720 END (2400hr) 730

DATE SAMPLED 5-23-08 SAMPLE TIME (2400hr) 740

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.17) 3" ____ (0.38) 4" ____ (0.67) 5" ____ (1.02) 6" ____ (1.50) 8" ____ (2.60) Other ____ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 24.0 CASING VOLUME (gal) = 2.29

DEPTH TO WATER (feet) = 10.51 CALCULATED PURGE (gal) = 6.87

WATER COLUMN HEIGHT (feet) = 13.49 ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	726	2	18.2	819	7.00	cloudy	607.7
	728	4	18.2	810	7.19		627.2
	730	6	18.1	808	7.23		613.0

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 10.54 SAMPLE TURBIDITY: 610.0

80% RECHARGE: ✓ YES ___ NO

ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: None

SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	✓ Bailer (___ PVC or ✓ disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristaltic Pump	___ Dedicated ____	___ Peristaltic Pump	___ Dedicated ____
Other: disposable		Other:	
Pump Depth: ____			

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Rabe

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 5-23-08 | START (2400hr) 750 | END (2400hr) 800
DATE SAMPLED 5-23-08 | SAMPLE TIME (2400hr) 810
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) = 20.0 | CASING VOLUME (gal) = 1.95
DEPTH TO WATER (feet) = 8.49 | CALCULATED PURGE (gal) = 5.87
WATER COLUMN HEIGHT (feet) = 11.51 | ACTUAL PURGE (gal) = 6.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	756	2	19.0	2.31ms	6.95	Cloudy	306.4
	758	4	19.0	2.44ms	6.94		444.5
	800	6	18.9	2.71ms	6.94		529.5

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 8.53 | SAMPLE TURBIDITY: 301.4

80% RECHARGE: X YES ___ NO | ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: none | SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ___
Other: disposable
Pump Depth:

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump / Bailer (___ PVC or / disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ___
Other:

WELL INTEGRITY: Good | LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Noble

SECOR International Inc.

WATER SAMPLE FIELD DATA SHEET

PROJECT #: **See Work Order** PURGED BY: RG WELL I.D.: MW-5

CLIENT NAME: **76 (Former BP) #11126** SAMPLED BY: RG SAMPLE I.D.: MW-5

LOCATION: **1700 Powell St., Emeryville CA** QA SAMPLES: _____

DATE GAUGED 5-23-08 START (2400hr) 900 END (2400hr) 910

DATE SAMPLED 5-23-08 SAMPLE TIME (2400hr) 920

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) = 13.5 CASING VOLUME (gal) = 1.38

DEPTH TO WATER (feet) = 5.38 CALCULATED PURGE (gal) = 4.14

WATER COLUMN HEIGHT (feet) = 8.12 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08			~~19.7~~			Cloudy	1100
	904	1	20.1	1064	6.82	↓	↓
	907	2	20.6	876	6.78	↓	↓
	910	3	20.9	846	6.78		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.40 SAMPLE TURBIDITY: 1100

80% RECHARGE: X YES ___ NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: YES SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ____

Other: disposable

Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ✓ Bailer (___ PVC or ✓ disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ____

Other: ____

WELL INTEGRITY: Good LOCK#: Yes

REMARKS: Hand baited well

SIGNATURE: Raymond Yowe 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 5-23-08 | START (2400hr) 820 | END (2400hr) 834
DATE SAMPLED 5-23-08 | SAMPLE TIME (2400hr) 845
SAMPLE TYPE: Groundwater X | 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) = 14.10 | CASING VOLUME (gal) = 1.27
DEPTH TO WATER (feet) = 6.53 | CALCULATED PURGE (gal) = 3.81
WATER COLUMN HEIGHT (feet) = 7.47 | ACTUAL PURGE (gal) = 4.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	826	2	20.0	2.54ms	7.24	clear	196.1
	830	3	20.3	2.60ms	7.20	↓	171.3
	834	4	20.5	2.66ms	7.19	↓	126.5

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.56 | SAMPLE TURBIDITY: 136.4

80% RECHARGE: X YES ___ NO | ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: No | SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber 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 Goube

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 5-23-08 START (2400hr) 930 END (2400hr) 943

DATE SAMPLED 5-23-08 SAMPLE TIME (2400hr) 955

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) = 1.31

DEPTH TO WATER (feet) = 6.27 CALCULATED PURGE (gal) = 3.94

WATER COLUMN HEIGHT (feet) = 7.73 ACTUAL PURGE (gal) = 4.00

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	935	~~3~~	21.6	2.34 ms	7.14	TAN	191.7
	939	~~3~~	21.9	2.40 ms	7.07		186.5
	943	4	22.0	2.44 ms	7.06		175.3

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.30 SAMPLE TURBIDITY: 165.9

80% RECHARGE: X YES ___ NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

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

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ____
Other: disposable
Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ✓ Bailer (___ PVC or ✓ disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ____
Other: ____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Gorm 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 5-23-08 START (2400hr) 1010 END (2400hr) 1020

DATE SAMPLED 5-23-08 SAMPLE TIME (2400hr) 1030

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.17) 3" ____ (0.38) 4" ____ (0.67) 5" ____ (1.02) 6" ____ (1.50) 8" ____ (2.60) Other ____ ( )

Casing Volume: (gallons per foot)

DEPTH TO BOTTOM (feet) = 12.6 CASING VOLUME (gal) = 1.00

DEPTH TO WATER (feet) = 6.07 CALCULATED PURGE (gal) = 3.0

WATER COLUMN HEIGHT (feet) = 5.93 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	1014	1	19.0	2.81ms	7.04	cloudy	1100
	1017	2	18.8	3.06ms	7.06		
	1030	3	18.8	3.24ms	7.07		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.10 SAMPLE TURBIDITY: 1100

80% RECHARGE: X YES ___ NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: None SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
___ Bladder Pump	___ Bailer (Teflon)	___ Bladder Pump	___ Bailer (Teflon)
___ Centrifugal Pump	___ Bailer (PVC)	___ Centrifugal Pump	✓ Bailer (___ PVC or ✓ disposable)
___ Submersible Pump	___ Bailer (Stainless Steel)	___ Submersible Pump	___ Bailer (Stainless Steel)
___ Peristalic Pump	___ Dedicated ____	___ Peristalic Pump	___ Dedicated ____
Other: disposable		Other: ____	
Pump Depth: ____			

WELL INTEGRITY: Good LOCK#: Yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Hoche 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 5-23-08 START (2400hr) 1040 END (2400hr) 1048

DATE SAMPLED 5-23-08 SAMPLE TIME (2400hr) ~~1105~~ 1100

SAMPLE TYPE: Groundwater X 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) = 14.0 CASING VOLUME (gal) = 1.52

DEPTH TO WATER (feet) = 5.01 CALCULATED PURGE (gal) = 4.58

WATER COLUMN HEIGHT (feet) = 8.99 ACTUAL PURGE (gal) = 4.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	1044	1.5	21.4	1828	6.80	clear	1100
	1046	3.0	21.2	1856	6.82		
	1048	~~4~~ 4.5	20.9	1985	6.86		

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 5.06 SAMPLE TURBIDITY: 947.4

80% RECHARGE: ✓ YES ___ NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: None SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated

Other: disposable

Pump Depth:

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ✓ Bailer (___ PVC or ~~✓~~ disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated

Other:

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hand baled well.

SIGNATURE: Raymond Hooke 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 5-23-08 START (2400hr) 1110 END (2400hr) 1118

DATE SAMPLED 5-23-08 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) = 12.0 CASING VOLUME (gal) = 1.01

DEPTH TO WATER (feet) = 6.01 CALCULATED PURGE (gal) = 3.05

WATER COLUMN HEIGHT (feet) = 5.99 ACTUAL PURGE (gal) = 3.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	1114	1	18.8	2.66	7.18	cloudy	923.1
	1116	2	18.6	2.77	7.26		847.4
	1118	3	18.3	2.79	7.27		952.7

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 6.05 SAMPLE TURBIDITY: 851.9

80% RECHARGE: ✓ YES ___ NO ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: None SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ____

Other: disposable

Pump Depth: ____

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (___ PVC or ___ disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ____

Other: ____

WELL INTEGRITY: Good LOCK#: yes

REMARKS: Hard backed well.

SIGNATURE: Raymond Gooch Page ___ of ___

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 5-23-08 | START (2400hr) 1135 | END (2400hr) 1145
DATE SAMPLED 5-23-08 | SAMPLE TIME (2400hr) 1155
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) = 1.31
DEPTH TO WATER (feet) = 4.26 | CALCULATED PURGE (gal) = 3.94
WATER COLUMN HEIGHT (feet) = 7.74 | ACTUAL PURGE (gal) = 5.0

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (gal)	TEMP. (degrees F)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)	TURBIDITY (NTU)
5-23-08	1141	1	19.3	1465	6.88	clear	111.9
	1143	2	18.9	1531	6.82		133.4
	1145	3	18.7	1633	6.81		148.9

SAMPLE INFORMATION

SAMPLE DEPTH TO WATER: 4.30 | SAMPLE TURBIDITY: 127.4

80% RECHARGE: ✓ YES ___ NO | ANALYSES: **GRO/BTEX/MTBE/Oxygenates/1,2-DCA & EDB; TPH-d & TOG additionally for MW-3 only**

ODOR: None | SAMPLE VESSEL / PRESERVATIVE: **3 preserved voas; MW-3 -one 1-L HCl-preserved Amber for DRO and one 1-L preserved for TOG.**

PURGING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ___ Bailer (PVC)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ___
Other: disposable
Pump Depth: ___

SAMPLING EQUIPMENT

___ Bladder Pump ___ Bailer (Teflon)
___ Centrifugal Pump ✓ Bailer (___ PVC or ✓ disposable)
___ Submersible Pump ___ Bailer (Stainless Steel)
___ Peristalic Pump ___ Dedicated ___
Other: ___

WELL INTEGRITY: Good | LOCK#: yes

REMARKS: Hand bailed well.

SIGNATURE: Raymond Saube | Page ___ of ___

Atlantic Richfield Company
bp
A BP affiliated company

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: SEVERN TRENT Laboratories (STL)	BP/AR Facility No.: 11126	Consultant/Contractor: SECOR International Inc.
Address: 1220 Quary Lane, Pleasanton, CA 94566	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: Dimple Sharma	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 925-484-1919	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@secor.com, bpdata@secor.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: SECOR International

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	Requested Analysis: GRO/BTEX/ 6 oxygenates/ 1,2-DCA/EDB by EPA 8260B	GRO/BTEX/MTBE by EPA 8260B	TPHd EPA 8015M* ☒ Diesel	Total Oil and Grease (EPA 1664)	Sample Point Lat/Long and Comments
1	MW-1	1155	5-23		x			3				x		x				
2	MW-2	1230	↓		x			3				x		x				
3	MW-3	1030			x			5				x		x		x	x	
4	MW-4	1125			x			3				x		x				
5	MW-5	920			x			3				x		x				
6	MW-6	845			x			3				x		x				
7	MW-7	955			x			3				x		x				
8	MW-8	1100			x			3				x		x				
9	MW-9	1300			x			3				x		x				
10	MW-10	810	↓		x			3				x		x				

Sampler's Name: [signature]	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: STANTEC	[signature]	5/23/08	1345	[signature]	5-23-08	~~1348~~ 1345
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

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

Atlantic Richfield Company
bp
A BP affiliated company

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: SEVERN TRENT Laboratories (STL)	BP/AR Facility No.: 11126	Consultant/Contractor: SECOR International Inc.
Address: 1220 Quary Lane, Pleasanton, CA 94566	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: Dimple Sharma	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 925-484-1919	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@secor.com, bpdata@secor.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: SECOR International

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: GRO/BTEX/ 6 oxygenates/ 1,2-DCA/EDB by EPA 8260B	Requested Analysis: GRO/BTEX/MtBE by EPA 8260B								Sample Point Lat/Long and Comments
1	MW-11	740	5-23		x				3				x			x									
2	QCTB	—	↓		x				2				x				x								37.83772 -122.2958459
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Sampler's Name: Richard Mitchell	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stantec		5/23/08	1345		5-23-08	1345
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

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

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

Quarterly Groundwater Monitoring Progress Report – Second Quarter 2008
76 (Former BP) Service Station No.11126
1700 Powell Street
Emeryville, California

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-14471-1

Job Description: CP 11126

For:
Stantec Consulting Corp.
3017 Kilgore Road
Suite 100
Rancho Cordova, CA 95670

Attention: Brad Shelton

Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
06/09/2008

cc: BPCPN Cal

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 600-3002 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 36520 was outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-14471-1	**MW-1**				
Benzene		170	0.50	ug/L	8260B
Ethylbenzene		15	0.50	ug/L	8260B
MTBE		120	0.50	ug/L	8260B
TAME		1.4	0.50	ug/L	8260B
Toluene		3.5	0.50	ug/L	8260B
Xylenes, Total		26	1.0	ug/L	8260B
TBA		1800	25	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		1300	50	ug/L	8260B
720-14471-2	**MW-2**				
Benzene		1700	50	ug/L	8260B
Ethylbenzene		300	50	ug/L	8260B
MTBE		2500	50	ug/L	8260B
TAME		60	50	ug/L	8260B
Xylenes, Total		210	100	ug/L	8260B
TBA		29000	500	ug/L	8260B
DIPE		140	100	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		13000	5000	ug/L	8260B
720-14471-3	**MW-3**				
TBA		3200	50	ug/L	8260B
Diesel Range Organics [C9-C24]		1100	50	ug/L	8015B
720-14471-4	**MW-4**				
TBA		42000	500	ug/L	8260B
720-14471-5	**MW-5**				
MTBE		3.9	2.5	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		4600	250	ug/L	8260B
720-14471-6	**MW-6**				
MTBE		8.4	0.50	ug/L	8260B
TAME		0.95	0.50	ug/L	8260B
TBA		53	5.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-14471-7	**MW-7**				
MTBE		9.6	0.50	ug/L	8260B
TAME		0.96	0.50	ug/L	8260B
TBA		300	5.0	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		53	50	ug/L	8260B
720-14471-8	**MW-8**				
MTBE		15	10	ug/L	8260B
TBA		4800	100	ug/L	8260B
720-14471-9	**MW-9**				
Benzene		390	12	ug/L	8260B
Ethylbenzene		130	12	ug/L	8260B
MTBE		1200	12	ug/L	8260B
TAME		33	12	ug/L	8260B
Toluene		22	12	ug/L	8260B
Xylenes, Total		68	25	ug/L	8260B
TBA		6800	120	ug/L	8260B
Gasoline Range Organics (GRO)-C6-C12		5300	1200	ug/L	8260B
720-14471-10	**MW-10**				
MTBE		2.2	0.50	ug/L	8260B

METHOD SUMMARY

Client: Stantec Consulting Corp. Job Number: 720-14471-1

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

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

1664A = EPA-821-98-002

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

SAMPLE SUMMARY

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-14471-1	MW-1	Water	05/23/2008 1155	05/23/2008 1345
720-14471-2	MW-2	Water	05/23/2008 1230	05/23/2008 1345
720-14471-3	MW-3	Water	05/23/2008 1030	05/23/2008 1345
720-14471-4	MW-4	Water	05/23/2008 1125	05/23/2008 1345
720-14471-5	MW-5	Water	05/23/2008 0920	05/23/2008 1345
720-14471-6	MW-6	Water	05/23/2008 0845	05/23/2008 1345
720-14471-7	MW-7	Water	05/23/2008 0955	05/23/2008 1345
720-14471-8	MW-8	Water	05/23/2008 1100	05/23/2008 1345
720-14471-9	MW-9	Water	05/23/2008 1300	05/23/2008 1345
720-14471-10	MW-10	Water	05/23/2008 0810	05/23/2008 1345
720-14471-11	MW-11	Water	05/23/2008 0740	05/23/2008 1345
720-14471-12TB	QCTB	Water	05/23/2008 0000	05/23/2008 1345

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-1

Lab Sample ID: 720-14471-1
Client Matrix: Water

Date Sampled: 05/23/2008 1155
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/04/2008 1225
Date Prepared: 06/04/2008 1225

Analysis Batch: 720-36403

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\sa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	170		0.50
Ethanol	ND		250
Ethylbenzene	15		0.50
MTBE	120		0.50
TAME	1.4		0.50
Toluene	3.5		0.50
Xylenes, Total	26		1.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	1300		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 121
1,2-Dichloroethane-d4 (Surr)	118	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-1

Lab Sample ID: 720-14471-1
Client Matrix: Water

Date Sampled: 05/23/2008 1155
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 5.0
Date Analyzed: 06/05/2008 1344
Date Prepared: 06/05/2008 1344

Analysis Batch: 720-36473

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060508\sa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
TBA	1800		25

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	107	77 - 121
1,2-Dichloroethane-d4 (Surr)	95	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-2

Lab Sample ID: 720-14471-2
Client Matrix: Water

Date Sampled: 05/23/2008 1230
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 100
Date Analyzed: 06/04/2008 1809
Date Prepared: 06/04/2008 1809

Analysis Batch: 720-36403

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\sa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		50
Benzene	1700		50
Ethanol	ND		25000
Ethylbenzene	300		50
MTBE	2500		50
TAME	60		50
Toluene	ND		50
Xylenes, Total	210		100
TBA	29000		500
DIPE	140		100
EDB	ND		50
Gasoline Range Organics (GRO)-C6-C12	13000		5000
Ethyl tert-butyl ether	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 121
1,2-Dichloroethane-d4 (Surr)	115	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-3

Lab Sample ID: 720-14471-3 Date Sampled: 05/23/2008 1030
Client Matrix: Water Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-36473 Instrument ID: Saturn 2100
Preparation: 5030B Lab File ID: d:\data\200806\060508\sa-
Dilution: 10 Initial Weight/Volume: 10 mL
Date Analyzed: 06/05/2008 1410 Final Weight/Volume: 10 mL
Date Prepared: 06/05/2008 1410

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		5.0
Benzene	ND		5.0
Ethanol	ND		2500
Ethylbenzene	ND		5.0
MTBE	ND		5.0
TAME	ND		5.0
Toluene	ND		5.0
Xylenes, Total	ND		10
TBA	3200		50
DIPE	ND		10
EDB	ND		5.0
Gasoline Range Organics (GRO)-C6-C12	ND		500
Ethyl tert-butyl ether	ND		5.0

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	103	77 - 121
1,2-Dichloroethane-d4 (Surr)	123	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-4

Lab Sample ID: 720-14471-4 Date Sampled: 05/23/2008 1125
Client Matrix: Water Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-36403 Instrument ID: Saturn 2100
Preparation: 5030B Lab File ID: d:\data\200806\060408\sa-
Dilution: 100 Initial Weight/Volume: 10 mL
Date Analyzed: 06/04/2008 1836 Final Weight/Volume: 10 mL
Date Prepared: 06/04/2008 1836

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		50
Benzene	ND		50
Ethanol	ND		25000
Ethylbenzene	ND		50
MTBE	ND		50
TAME	ND		50
Toluene	ND		50
Xylenes, Total	ND		100
TBA	42000		500
DIPE	ND		100
EDB	ND		50
Gasoline Range Organics (GRO)-C6-C12	ND		5000
Ethyl tert-butyl ether	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	97	77 - 121
1,2-Dichloroethane-d4 (Surr)	126	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-5

Lab Sample ID: 720-14471-5 Date Sampled: 05/23/2008 0920
Client Matrix: Water Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-36473 Instrument ID: Saturn 2100
Preparation: 5030B Lab File ID: d:\data\200806\060508\sa-
Dilution: 5.0 Initial Weight/Volume: 10 mL
Date Analyzed: 06/05/2008 1317 Final Weight/Volume: 10 mL
Date Prepared: 06/05/2008 1317

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		2.5
Benzene	ND		2.5
Ethanol	ND		1200
Ethylbenzene	ND		2.5
MTBE	3.9		2.5
TAME	ND		2.5
Toluene	ND		2.5
Xylenes, Total	ND		5.0
TBA	ND		25
DIPE	ND		5.0
EDB	ND		2.5
Gasoline Range Organics (GRO)-C6-C12	4600		250
Ethyl tert-butyl ether	ND		2.5

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	106	77 - 121
1,2-Dichloroethane-d4 (Surr)	105	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-6

Lab Sample ID: 720-14471-6
Client Matrix: Water

Date Sampled: 05/23/2008 0845
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/06/2008 1306
Date Prepared: 06/06/2008 1306

Analysis Batch: 720-36520

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200806\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	8.4		0.50
TAME	0.95		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	53		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	95	77 - 121
1,2-Dichloroethane-d4 (Surr)	97	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-7

Lab Sample ID: 720-14471-7 Date Sampled: 05/23/2008 0955
Client Matrix: Water Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-36403 Instrument ID: Saturn 2100
Preparation: 5030B Lab File ID: d:\data\200806\060408\sa-
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 06/04/2008 1411 Final Weight/Volume: 10 mL
Date Prepared: 06/04/2008 1411

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	9.6		0.50
TAME	0.96		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	300		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	53		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	103	77 - 121
1,2-Dichloroethane-d4 (Surr)	99	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-8

Lab Sample ID: 720-14471-8 Date Sampled: 05/23/2008 1100
Client Matrix: Water Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-36403 Instrument ID: Saturn 2100
Preparation: 5030B Lab File ID: d:\data\200806\060408\sa-
Dilution: 20 Initial Weight/Volume: 10 mL
Date Analyzed: 06/04/2008 1557 Final Weight/Volume: 10 mL
Date Prepared: 06/04/2008 1557

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		10
Benzene	ND		10
Ethanol	ND		5000
Ethylbenzene	ND		10
MTBE	15		10
TAME	ND		10
Toluene	ND		10
Xylenes, Total	ND		20
TBA	4800		100
DIPE	ND		20
EDB	ND		10
Gasoline Range Organics (GRO)-C6-C12	ND		1000
Ethyl tert-butyl ether	ND		10

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	106	77 - 121
1,2-Dichloroethane-d4 (Surr)	105	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-9

Lab Sample ID: 720-14471-9
Client Matrix: Water

Date Sampled: 05/23/2008 1300
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 25
Date Analyzed: 06/04/2008 1623
Date Prepared: 06/04/2008 1623

Analysis Batch: 720-36403

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\sa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		12
Benzene	390		12
Ethanol	ND		6200
Ethylbenzene	130		12
MTBE	1200		12
TAME	33		12
Toluene	22		12
Xylenes, Total	68		25
TBA	6800		120
DIPE	ND		25
EDB	ND		12
Gasoline Range Organics (GRO)-C6-C12	5300		1200
Ethyl tert-butyl ether	ND		12

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	103	77 - 121
1,2-Dichloroethane-d4 (Surr)	106	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-10

Lab Sample ID: 720-14471-10 Date Sampled: 05/23/2008 0810
Client Matrix: Water Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-36403 Instrument ID: Saturn 2100
Preparation: 5030B Lab File ID: d:\data\200806\060408\sa-
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 06/04/2008 1504 Final Weight/Volume: 10 mL
Date Prepared: 06/04/2008 1504

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	2.2		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	100	77 - 121
1,2-Dichloroethane-d4 (Surr)	113	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-11

Lab Sample ID: 720-14471-11
Client Matrix: Water

Date Sampled: 05/23/2008 0740
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/04/2008 1530
Date Prepared: 06/04/2008 1530

Analysis Batch: 720-36403

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\sa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	105	77 - 121
1,2-Dichloroethane-d4 (Surr)	125	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: **QCTB**

Lab Sample ID: 720-14471-12TB
Client Matrix: Water

Date Sampled: 05/23/2008 0000
Date Received: 05/23/2008 1345

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 06/04/2008 1132
Date Prepared: 06/04/2008 1132

Analysis Batch: 720-36403

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\sa-
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C6-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	102	77 - 121
1,2-Dichloroethane-d4 (Surr)	124	73 - 130

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Client Sample ID: MW-3

Lab Sample ID: 720-14471-3
Client Matrix: Water

Date Sampled: 05/23/2008 1030
Date Received: 05/23/2008 1345

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

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 05/30/2008 2349
Date Prepared: 05/27/2008 1247

Analysis Batch: 720-36249
Prep Batch: 720-36016

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

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C9-C24]	1100		50

Surrogate	%Rec	Acceptance Limits
p-Terphenyl	63	50 - 150

General Chemistry

Client Sample ID: MW-3

Lab Sample ID: 720-14471-3
Client Matrix: Water

Date Sampled: 05/23/2008 1030
Date Received: 05/23/2008 1345

Analyte	Result	Qual	Units	RL	Dil	Method
HEM	ND		mg/L	2.0	1.0	1664A
	Anly Batch: 720-36136		Date Analyzed 05/29/2008 1124			
	Prep Batch: 720-36112		Date Prepared: 05/28/2008 1939			

DATA REPORTING QUALIFIERS

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Section	Qualifier	Description
GC/MS VOA		
	RA	RPD exceeds limits due to matrix interference. % recoveries were within limits
	AZ	Surrogate recover outside of acceptance limits due to matrix interference

Client: Stantec Consulting Corp. Job Number: 720-14471-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-36403					
LCS 720-36403/2	Lab Control Spike	T	Water	8260B	
LCSD 720-36403/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-36403/3	Method Blank	T	Water	8260B	
720-14471-1	MW-1	T	Water	8260B	
720-14471-2	MW-2	T	Water	8260B	
720-14471-4	MW-4	T	Water	8260B	
720-14471-7	MW-7	T	Water	8260B	
720-14471-8	MW-8	T	Water	8260B	
720-14471-9	MW-9	T	Water	8260B	
720-14471-10	MW-10	T	Water	8260B	
720-14471-10MS	Matrix Spike	T	Water	8260B	
720-14471-10MSD	Matrix Spike Duplicate	T	Water	8260B	
720-14471-11	MW-11	T	Water	8260B	
720-14471-12TB	QCTB	T	Water	8260B	
Analysis Batch:720-36473					
LCS 720-36473/2	Lab Control Spike	T	Water	8260B	
LCSD 720-36473/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-36473/3	Method Blank	T	Water	8260B	
720-14471-1	MW-1	T	Water	8260B	
720-14471-3	MW-3	T	Water	8260B	
720-14471-5	MW-5	T	Water	8260B	
720-14566-B-3 MS	Matrix Spike	T	Water	8260B	
720-14566-B-3 MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:720-36520					
LCS 720-36520/3	Lab Control Spike	T	Water	8260B	
LCSD 720-36520/2	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-36520/5	Method Blank	T	Water	8260B	
720-14471-6	MW-6	T	Water	8260B	
720-14562-C-3 MS	Matrix Spike	T	Water	8260B	
720-14562-C-3 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis
T = Total

Client: Stantec Consulting Corp. Job Number: 720-14471-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-36016					
LCS 720-36016/2-A	Lab Control Spike	T	Water	3510C	
LCSD 720-36016/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 720-36016/1-A	Method Blank	T	Water	3510C	
720-14471-3	MW-3	T	Water	3510C	
Analysis Batch:720-36249					
LCS 720-36016/2-A	Lab Control Spike	T	Water	8015B	720-36016
LCSD 720-36016/3-A	Lab Control Spike Duplicate	T	Water	8015B	720-36016
MB 720-36016/1-A	Method Blank	T	Water	8015B	720-36016
720-14471-3	MW-3	T	Water	8015B	720-36016

Report Basis
T = Total

General Chemistry					
Prep Batch: 720-36112					
LCS 720-36112/2-A	Lab Control Spike	T	Water	1664A	
LCSD 720-36112/3-A	Lab Control Spike Duplicate	T	Water	1664A	
MB 720-36112/1-A	Method Blank	T	Water	1664A	
720-14471-3	MW-3	T	Water	1664A	
Analysis Batch:720-36136					
LCS 720-36112/2-A	Lab Control Spike	T	Water	1664A	720-36112
LCSD 720-36112/3-A	Lab Control Spike Duplicate	T	Water	1664A	720-36112
MB 720-36112/1-A	Method Blank	T	Water	1664A	720-36112
720-14471-3	MW-3	T	Water	1664A	720-36112

Report Basis
T = Total

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Method Blank - Batch: 720-36403

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-36403/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2008 0922
Date Prepared: 06/04/2008 0922

Analysis Batch: 720-36403
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\mb
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	108	77 - 121
1,2-Dichloroethane-d4 (Surr)	100	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36403

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-36403/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2008 1001
Date Prepared: 06/04/2008 1001

Analysis Batch: 720-36403
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\ls-v
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-36403/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/04/2008 1028
Date Prepared: 06/04/2008 1028

Analysis Batch: 720-36403
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060408\ld-wa
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	91	64 - 140	0	20		
MTBE	101	93	44 - 134	8	20		
Toluene	91	91	52 - 120	0	20		
Gasoline Range Organics (GRO)-C6-C12	59	57	47 - 133	3	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	104	109	77 - 121
1,2-Dichloroethane-d4 (Surr)	107	109	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-36403

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-14471-10	Analysis Batch:	720-36403	Instrument ID:	Saturn 2100
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	d:\data\200806\060408\sa
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	06/04/2008 1650			Final Weight/Volume:	10 mL
Date Prepared:	06/04/2008 1650				

MSD Lab Sample ID:	720-14471-10	Analysis Batch:	720-36403	Instrument ID:	Saturn 2100
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	d:\data\200806\060408\sa-
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	06/04/2008 1716			Final Weight/Volume:	10 mL
Date Prepared:	06/04/2008 1716				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	90	97	64 - 140	7	20		
MTBE	113	112	44 - 134	1	20		
Toluene	93	95	52 - 120	3	20		
Gasoline Range Organics (GRO)-C6-C12	52	51	47 - 133	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	106	107	77 - 121
1,2-Dichloroethane-d4 (Surr)	99	91	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Method Blank - Batch: 720-36473

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-36473/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2008 0923
Date Prepared: 06/05/2008 0923

Analysis Batch: 720-36473
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060508\mb
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	101	77 - 121
1,2-Dichloroethane-d4 (Surr)	119	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36473

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-36473/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2008 1059
Date Prepared: 06/05/2008 1059

Analysis Batch: 720-36473
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060508\ls-v
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-36473/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/05/2008 1125
Date Prepared: 06/05/2008 1125

Analysis Batch: 720-36473
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2100
Lab File ID: d:\data\200806\060508\ld-wa
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	97	104	64 - 140	8	20		
MTBE	87	98	44 - 134	12	20		
Toluene	98	107	52 - 120	9	20		
Gasoline Range Organics (GRO)-C6-C12	56	64	47 - 133	13	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	103	111	77 - 121
1,2-Dichloroethane-d4 (Surr)	77	91	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-36473

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-14566-B-3 MS	Analysis Batch: 720-36473	Instrument ID: Saturn 2100
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: d:\data\200806\060508\sa
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	06/05/2008 1649		Final Weight/Volume: 10 mL
Date Prepared:	06/05/2008 1649		

MSD Lab Sample ID:	720-14566-B-3 MSD	Analysis Batch: 720-36473	Instrument ID: Saturn 2100
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: d:\data\200806\060508\sa-
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	06/05/2008 1716		Final Weight/Volume: 10 mL
Date Prepared:	06/05/2008 1716		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	102	115	64 - 140	11	20		
MTBE	103	122	44 - 134	16	20		
Toluene	105	112	52 - 120	6	20		
Gasoline Range Organics (GRO)-C6-C12	57	60	47 - 133	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	106	113	77 - 121
1,2-Dichloroethane-d4 (Surr)	105	112	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Method Blank - Batch: 720-36520

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-36520/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 0909
Date Prepared: 06/06/2008 0909

Analysis Batch: 720-36520
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200806\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethanol	ND		250
Ethylbenzene	ND		0.50
MTBE	ND		0.50
TAME	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
TBA	ND		5.0
DIPE	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C6-C12	ND		50
Ethyl tert-butyl ether	ND		0.50

Surrogate	% Rec		Acceptance Limits
Toluene-d8 (Surr)	0	AZ	77 - 121
1,2-Dichloroethane-d4 (Surr)	0	AZ	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36520

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-36520/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 1045
Date Prepared: 06/06/2008 1045

Analysis Batch: 720-36520
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200806\06
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-36520/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/06/2008 1109
Date Prepared: 06/06/2008 1109

Analysis Batch: 720-36520
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200806\060
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	79	86	64 - 140	8	20		
MTBE	90	89	44 - 134	0	20		
Toluene	92	106	52 - 120	14	20		
Gasoline Range Organics (GRO)-C6-C12	71	75	47 - 133	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	98	112	77 - 121
1,2-Dichloroethane-d4 (Surr)	103	112	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-36520

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-14562-C-3 MS	Analysis Batch: 720-36520	Instrument ID: Varian 3900E
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\varianws\data\200806\(
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	06/06/2008 1637		Final Weight/Volume: 10 mL
Date Prepared:	06/06/2008 1637		

MSD Lab Sample ID:	720-14562-C-3 MSD	Analysis Batch: 720-36520	Instrument ID: Varian 3900E
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\varianws\data\200806\06
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	06/06/2008 1700		Final Weight/Volume: 10 mL
Date Prepared:	06/06/2008 1700		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	84	73	64 - 140	13	20		
MTBE	90	98	44 - 134	8	20		
Toluene	96	77	52 - 120	22	20		RA
Gasoline Range Organics (GRO)-C6-C12	70	89	47 - 133	22	20		RA

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	111	83	77 - 121
1,2-Dichloroethane-d4 (Surr)	111	109	73 - 130

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Method Blank - Batch: 720-36016

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-36016/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/31/2008 0258
Date Prepared: 05/27/2008 1247

Analysis Batch: 720-36249
Prep Batch: 720-36016
Units: ug/L

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

Analyte	Result	Qual	RL
Diesel Range Organics [C9-C24]	ND		50

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	83	50 - 150

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36016

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-36016/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/31/2008 0204
Date Prepared: 05/27/2008 1247

Analysis Batch: 720-36249
Prep Batch: 720-36016
Units: ug/L

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

LCSD Lab Sample ID: LCSD 720-36016/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/31/2008 0231
Date Prepared: 05/27/2008 1247

Analysis Batch: 720-36249
Prep Batch: 720-36016
Units: ug/L

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

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C9-C24]	85	76	50 - 130	12	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	82	83	50 - 150

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

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Method Blank - Batch: 720-36112

Method: 1664A
Preparation: 1664A

Lab Sample ID: MB 720-36112/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/29/2008 1124
Date Prepared: 05/28/2008 1939

Analysis Batch: 720-36136
Prep Batch: 720-36112
Units: mg/L

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

Analyte	Result	Qual	RL
HEM	ND		2.0

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-36112

Method: 1664A
Preparation: 1664A

LCS Lab Sample ID: LCS 720-36112/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/29/2008 1124
Date Prepared: 05/28/2008 1939

Analysis Batch: 720-36136
Prep Batch: 720-36112
Units: mg/L

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

LCSD Lab Sample ID: LCSD 720-36112/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 05/29/2008 1124
Date Prepared: 05/28/2008 1939

Analysis Batch: 720-36136
Prep Batch: 720-36112
Units: mg/L

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

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
HEM	94	93	84 - 104	1	20		

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

110867

720-14471

Atlantic Richfield Company
bp
A BP affiliated company

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: SEVERN TRENT Laboratories (STL)	BP/AR Facility No.: 11126	Consultant/Contractor: SECOR International Inc.
Address: 1220 Quary Lane, Pleasanton, CA 94566	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: Dimple Sharma	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 925-484-1919	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@secor.com, bpdata@secor.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: SECOR International

Lab Bottle Order No:

Matrix

Item No.	Sample Description	Time	Date	Soil/Solid	Water/Liquid	Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	H_2SO_4	HNO_3	HCl	Methanol		Requested Analysis: GRO/BTEX/ 6 oxygenates/ 1,2-DCA/EDB by EPA 8260B	GRO/BTEX/MtBE by EPA 8260B	TPHd EPA 8015M* ☒ Diesel	Total Oil and Grease (EPA 1664							Sample Point Lat/Long and Comments	
1	MW-1	1155	5-23		x				3				x			x											
2	MW-2	1230			x				3				x			x											
3	MW-3	1030			x				5				x			x		x	x								
4	MW-4	1175			x				3				x			x											
5	MW-5	920			x				3				x			x											
6	MW-6	845			x				3				x			x											
7	MW-7	755			x				3				x			x											
8	MW-8	1100			x				3				x			x											
9	MW-9	1300			x				3				x			x											
10	MW-10	810			x				3				x			x											

Sampler's Name: [illegible]	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation / Date / Time
Sampler's Company: STANTEC		5/23/08	1345	
Shipment Date:				
Shipment Method:				
Shipment Tracking No:				

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.6 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

720-14471

110867

Atlantic Richfield Company
bp
A BP affiliated company

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: SEVERN TRENT Laboratories (STL)	BP/AR Facility No.: 11126	Consultant/Contractor: SECOR International Inc.
Address: 1220 Quary Lane, Pleasanton, CA 94566	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: Dimple Sharma	California Global ID No.: T0600100208	Consultant Project No.: 77BP.11126.02.0403/77CP.01731.41.2080
Tele/Fax: 925-484-1919	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@secor.com, bpdata@secor.com
Tele/Fax: 925-299-8891	Cost Element:	Invoice to: SECOR International

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: GRO/BTEX/ 6 oxygenates/ 1,2-DCA/EDB by EPA 8260B	Requested Analysis: GRO/BTEX/MtBE by EPA 8260B	Sample Point Lat/Long and Comments
1	MW-11	740	5-23		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: Richard Walker	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company: Stantec		5/23/08	1345		5-23-08	1345
Shipment Date:						
Shipment Method:						
Shipment Tracking No:						

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

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 4.6 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

Login Sample Receipt Check List

Client: Stantec Consulting Corp. Job Number: 720-14471-1

Login Number: 14471 **List Source: TestAmerica San Francisco**
Creator: Mullen, Joan
List Number: 1

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