

Appendix C-5
Relevant Pages from
Former Unocal Service Station No. 0907
Documents

Supplemental Soil Investigation Summary Report

Former Unocal Service Station No. 0907
1121 South Bailey Street
Seattle, Washington

Prepared for:

Union Oil Company of California
276 Tank Farm Road
San Luis Obispo, California

Prepared by:

ENSR Corporation
9521 Willows Road
Redmond, Washington



December 2005
Project Number 06940-272

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TABLE 1

SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA
PETROLEUM HYDROCARBONS
 FORMER UNOCAL SERVICE STATION #0907
 1121 SOUTH BAILEY STREET
 SEATTLE, WASHINGTON
 06940-272

Sample Name	Sample Date	Sample Depth (feet bgs)	BETX ¹ (mg/kg)				Gasoline-Range Hydrocarbons ² (mg/kg)	Diesel-Range Hydrocarbons ² (mg/kg)	Heavy Oil-Range Hydrocarbons ² (mg/kg)	Kerosene-Range Hydrocarbons ² (mg/kg)
			Benzene	Ethylbenzene	Toluene	Total Xylenes				
MTCA Method A Soil Cleanup			0.03	6.0	7.0	9.0	30	2,000	2,000	2,000
SB-1-3	04/09/05	3.0	ND (<0.00150)	ND (<0.115)	ND (<0.115)	ND (<0.230)	ND (<11.5)	16.5	76.0	ND (<10.0)
SB-2-3	04/09/05	3.0	ND (<0.00105)	ND	ND (<0.0687)	ND (<0.139)	8.11	53.5	29.3	277
SB-2-9	04/09/05	9.0	0.0556	0.209	0.0868	0.762	87.6	ND (<10.0)	ND (<25.0)	ND (<10.0)
SB-3-3	04/09/05	3.0	2.66	1.86	1.09	4.80	396	85.0	117	87.5
SB-3-9	04/09/05	9.0	0.00453	ND	ND (<0.0795)	ND (<0.159)	ND (<7.95)	13.7	103	ND (<10.0)
SB-4-3	04/09/05	3.0	5.52	1.51	4.00	5.04	74.3	20.5	95.6	15.7
SB-4-10	04/09/05	10.0	0.0230	ND	ND (<0.0734)	ND (<0.147)	ND (<7.34)	25.0	160	ND (<10.0)
SB-5-3	04/09/05	3.0	0.0834	0.262	0.150	1.25	41.8	19.0	60.2	20.6
SB-5-9	04/09/05	9.0	ND (<0.00104)	ND	ND (<0.0726)	ND (<0.145)	ND (<7.26)	ND (<10.0)	ND (<25.0)	ND (<10.0)
SB-6-3	04/09/05	3.0	0.0507	0.216	0.166	0.836	49.9	104	104	104
SB-6-11	04/09/05	11.0	ND (<0.60)	6.23	ND (<1.00)	11.2	4.880	86.6	ND (<25.0)	289
SB-7-3	04/09/05	3.0	0.0899	0.266	0.266	0.988	63.8	157	584	32.1
SB-7-6	04/09/05	6.0	ND (<0.00136)	0.135	ND (<0.00136)	0.343	110	244	1120	69.7
SB-8-3	04/09/05	3.0	0.00232	ND	ND (<0.0627)	0.249	7.14	24.3	55.1	90.8
SB-8-4	04/09/05	4.0	ND (<0.00150)	ND	ND (<0.0672)	ND (<0.134)	ND (<6.72)	ND (<10.0)	ND (<10.0)	ND (<10.0)
SB-9-10	04/09/05	10.0	ND (<0.00134)	ND	ND (<0.0645)	0.174	16.7	ND (<10.0)	ND (<25.0)	ND (<10.0)
SB-10-3.5	04/09/05	3.5	ND	ND	ND (<0.0637)	0.128	ND (<6.37)	ND (<10.0)	ND (<25.0)	ND (<10.0)
SB-10-9	04/09/05	9.0	ND (<0.00127)	0.107	ND (<0.0500)	0.359	14.0	21.7	119	ND (<10.0)
SB-11-2.5	04/09/05	2.5	40.6	33.1	29.7	73.6	1,560	78.4	548	110
SB-11-8.5	04/09/05	8.5	13.6	11.8	9.61	33.9	520	ND (<10.0)	ND (<25.0)	ND (<10.0)
SB-12-8.5	04/09/05	8.5	2.37	2.32	0.982	10.2	209	ND (<10.0)	30.7	ND (<10.0)

Notes:
¹B = Benzene, E = Ethylbenzene, T = Toluene, X = Total Xylenes. Analyzed by EPA Method 8021B.
²Gasoline-range hydrocarbons analyzed by Washington Method WTPH-G or Northwest Method NWTPH-Gx.
³Diesel-range, heavy oil range, and kerosene-range hydrocarbons analyzed by Washington Method WTPH-D extended or NWTPH-Dx with acid/silica gel cleanup.
 ND = Not detected at or exceeding laboratory reporting limit.
 mg/kg = milligrams per kilogram.
 MTCA = Model Toxics Control Act (2001 Version).
 Shading indicates concentration exceeds MTCA Method A soil cleanup level.
 Chemical analyses were completed by North Creek Analytical of Bothell, Washington.

TABLE 2

SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA
 POLYNUCLEAR AROMATIC HYDROCARBONS
 FORMER UNOCAL SERVICE STATION #0907
 1121 SOUTH BAILEY ST
 SEATTLE, WASHINGTON
 06940-272

Sample Name	Sample Date	Sample Depth (feet bgs)	1- Methylanthracene (mg/kg)		2- Methylphenanthrene (mg/kg)	Acenaphthene (mg/kg)	Acenaphthylene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (ghi) perylene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (ah) anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Pyrene (mg/kg)	
			NSA	ND (<0.100)																	NSA
MTCA Method A Soil Cleanup			NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA
SB-3	4/8/2005	3.0	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)	ND (<0.100)
SB-7-6	4/8/2005	6.0	0.148	0.258	0.258	0.096	0.0104	0.0130	0.0369	0.104	0.098	0.0594	0.0600	0.534	0.0900	0.0402	0.0402	0.214	0.0313	0.143	0.0429
SB-7-2.5	4/8/2005	2.5	0.117	0.142	0.142	0.0130	0.0130	0.0130	0.0369	0.0150	0.098	ND (<0.0100)	0.0328	ND (<0.0100)	0.0240	ND (<0.0100)	ND (<0.0100)	0.2840	0.0768	0.0429	0.0429

Note: Polynuclear Aromatic Hydrocarbons by EPA Method 8270-SM.
 mg/kg = milligram per kilogram.
 ND = Not detected at or exceeding the laboratory reporting limit.
 MTCA = Model Toxics Control Act (2001 Version)
 NSA = No cleanup standard available.
 Chemical analyses were completed by North Creek Analytical of Bothell, Washington.

TABLE 3

**SUMMARY OF ANALYTICAL DATA
VOLATILE ORGANIC COMPOUNDS¹**

FORMER SERVICE STATION #0907
1121 SOUTH BAILEY STREET
SEATTLE, WASHINGTON
06940-272

Soil Sample	Date Sampled	Depth Sampled	1,2-Dichloroethane (mg/kg)	Methylene Chloride (mg/kg)	Naphthalene (mg/kg)	n-Propyl-benzene (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)
MTCA Method A Soil Cleanup Level			NSA	0.02	5.0	NSA	NSA	NSA
SB-6-3	04/09/05	3	0.00173	0.00876	ND (<0.00438)	0.00446	0.0172	0.00720
SB-7-6	04/09/05	6	ND (<0.00114)	0.00689	ND (<0.00455)	ND (<0.00455)	ND (<0.00455)	ND (<0.00455)
SB-11-2.5	04/09/05	2.5	1.21	ND (<1.79)	0.599	16.3	47.4	11.8

Notes:

¹Volatile Organic Compounds by EPA Method 8260B (Low Soil Method). Only those compounds detected are listed. See laboratory report for a full list of analytes and specific method reporting limits.

Chemical analyses were conducted by North Creek Analytical of Bothell, Washington.

mg/kg = milligram per kilogram.

ND = Not detected at or exceeding laboratory reporting limit.

MTCA = Model Toxics Control Act (2001 Version).

NSA = No cleanup standard available.

TABLE 4

SUMMARY OF ANALYTICAL DATA
VOLATILE PETROLEUM HYDROCARBONS AND EXTRACTABLE PETROLEUM HYDROCARBONS
 FORMER UNOCAL SERVICE STATION #0907
 1121 SOUTH BAILEY STREET
 SEATTLE, WASHINGTON
 06940-272

Soil Sample	Date Sampled	Depth Sampled	Volatile Petroleum Hydrocarbons ¹ (mg/kg)										Extractable Petroleum Hydrocarbons ¹ (mg/kg)							
			C5-C6 Aliphatics	C6-C8 Aliphatics	C8-C10 Aliphatics	C10-C12 Aliphatics	C8-C10 Aromatics	C10-C12 Aromatics	C10-C12 Aromatics	C12-C13 Aromatics	Total VPF	C12-C16 Aliphatics	C16-C21 Aliphatics	C21-C34 Aliphatics	C12-C16 Aromatics	C16-C21 Aromatics	C21-C34 Aromatics	Total EPH		
MTCA Method A Soil Cleanup Level			NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA	NSA		
SB-6-3	04/09/05	3	ND (<7.31)	ND (<7.31)	ND (<7.31)	10.4	ND (<7.31)	10.3	ND (<7.31)	21.9	91.2	860	8.6	ND (<20.0)	52.5	7.67	5.86	19	57.7	98.9
SB-7-6	04/09/05	6	ND (<7.16)	ND (<7.16)	ND (<7.16)	34.5	ND (<7.16)	34.8	ND (<7.16)	34.8	195	210	ND (<20.0)	ND (<20.0)	ND (<20.0)	509	ND (<20.0)	ND (<20.0)	137	698
SB-11-2.5	04/09/05	2.5	ND (<89.3)	140	113	202	195	210	210	ND (<89.3)	860	860	ND (<10.0)	ND (<10.0)	ND (<10.0)	82.4	ND (<10.0)	ND (<10.0)	55.1	118

¹Volatile Petroleum Hydrocarbons/Extractable Petroleum Hydrocarbons by WDOE TPH Policy Method.
 mg/kg = milligram per kilogram.
 ND = Not detected at or exceeding laboratory reporting limit.
 MTCA = Model Toxics Control Act (2001 Version).
 NSA = No cleanup standard available.
 Chemical analyses were conducted by North Creek Analytical of Bothell, Washington.

ANALYST: J. L. ...
 DATE: 04/14/05
 PROJECT: ...

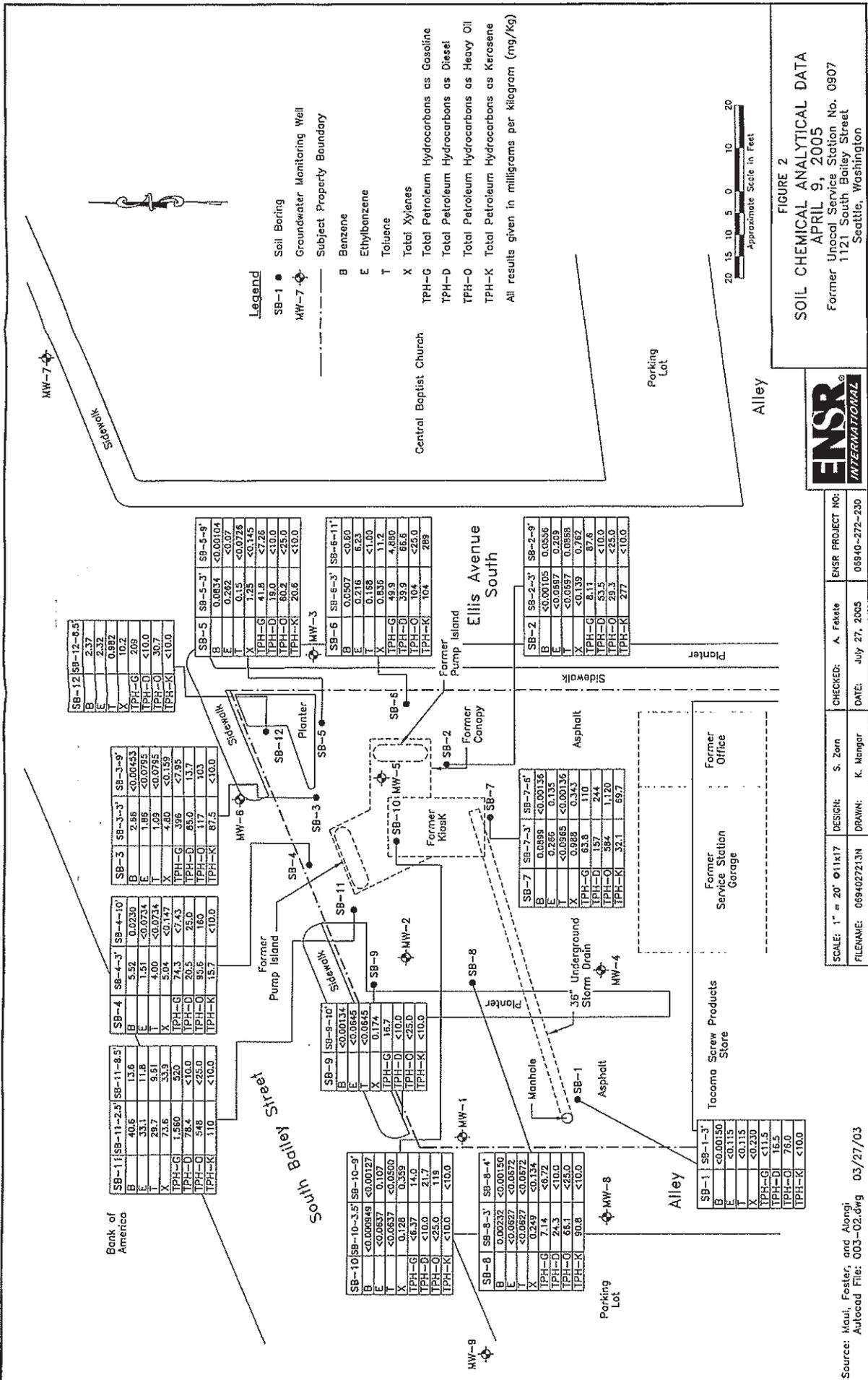


FIGURE 2
SOIL CHEMICAL ANALYTICAL DATA
 APRIL 9, 2005
 Former Unocal Service Station No. 0907
 1121 South Bailey Street
 Seattle, Washington



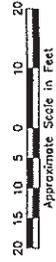
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FILENAME: 0694027213N	DRAWN: K. Mangor	DATE: July 27, 2005	

Source: Maui, Foster, and Alonzi
 Autocad File: 003-02.dwg 03/27/03

Legend

- SB-1 ● Soil Boring
- MW-7 ◊ Groundwater Monitoring Well
- Subject Property Boundary

- B Benzene
 - E Ethylbenzene
 - T Toluene
 - X Total Xylenes
 - TPH-G Total Petroleum Hydrocarbons as Gasoline
 - TPH-D Total Petroleum Hydrocarbons as Diesel
 - TPH-O Total Petroleum Hydrocarbons as Heavy Oil
 - TPH-K Total Petroleum Hydrocarbons as Kerosene
- All results given in milligrams per kilogram (mg/Kg)



SB-12 SB-12-8.5	
B	2.37
E	2.32
T	0.922
X	10.2
TPH-G	208
TPH-D	<10.0
TPH-O	<10.0
TPH-K	<10.0

SB-3 SB-3-3' SB-3-9'	
B	2.58
E	<0.00453
T	1.85
X	<0.0795
TPH-G	4.00
TPH-D	<10.0
TPH-O	30.7
TPH-K	<10.0

SB-4 SB-4-3' SB-4-10'	
B	5.52
E	0.0230
T	1.51
X	<0.0734
TPH-G	4.00
TPH-D	<10.0
TPH-O	30.7
TPH-K	<10.0

SB-11 SB-11-2.5' SB-11-8.5'	
B	40.6
E	33.1
T	29.7
X	29.7
TPH-G	72.6
TPH-D	1.560
TPH-O	78.4
TPH-K	110

SB-10 SB-10-3.5' SB-10-9'	
B	<0.000949
E	<0.00127
T	<0.0837
X	0.107
TPH-G	<0.0500
TPH-D	0.359
TPH-O	46.37
TPH-K	14.0

SB-8 SB-8-3' SB-8-4'	
B	0.00232
E	<0.00150
T	<0.0827
X	<0.0572
TPH-G	0.249
TPH-D	<0.134
TPH-O	7.14
TPH-K	24.3

SB-1 SB-1-3'	
B	<0.00150
E	<0.115
T	<0.230
X	<0.230
TPH-G	<11.5
TPH-D	16.5
TPH-O	76.0
TPH-K	<10.0

SB-5 SB-5-3' SB-5-9'	
B	0.0534
E	<0.00104
T	0.282
X	<0.0728
TPH-G	0.23
TPH-D	41.8
TPH-O	19.0
TPH-K	<1.26

SB-6 SB-6-3' SB-6-11'	
B	0.0507
E	0.216
T	6.23
X	1.68
TPH-G	0.836
TPH-D	11.2
TPH-O	49.9
TPH-K	4.890

SB-2 SB-2-3' SB-2-9'	
B	<0.00105
E	0.0556
T	<0.0567
X	0.209
TPH-G	<0.0567
TPH-D	0.0988
TPH-O	<0.139
TPH-K	0.762

SB-7 SB-7-3' SB-7-6'	
B	0.0898
E	<0.00136
T	0.266
X	0.135
TPH-G	<0.0985
TPH-D	<0.00136
TPH-O	0.343
TPH-K	53.8

Source: Maui, Foster, and Alonzi
 Autocad File: 003-02.dwg 03/27/03

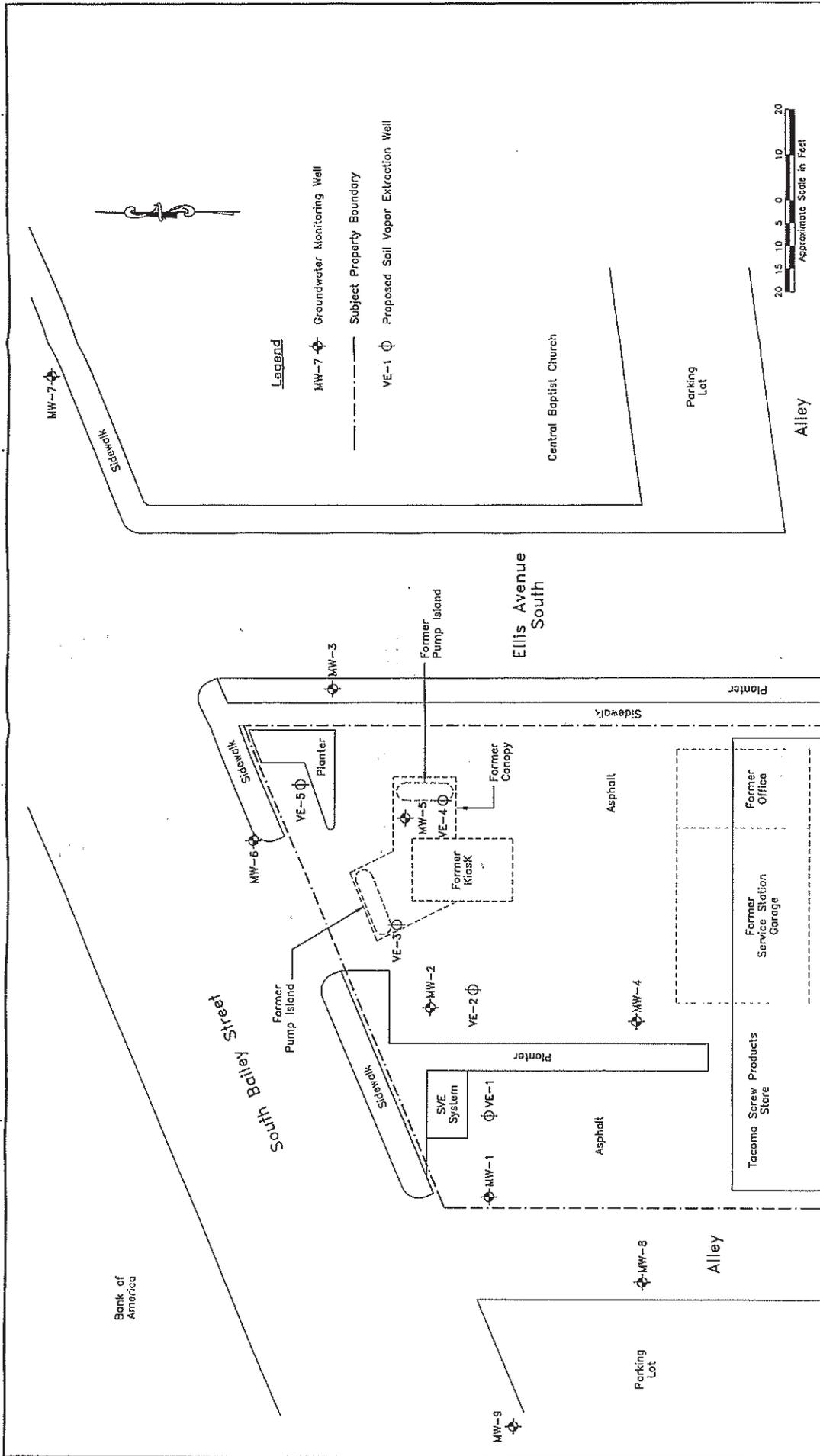


FIGURE 3
PROPOSED SOIL VAPOR EXTRACTION WELLS
 Former Unocal Service Station No. 0907
 1121 South Bailey Street
 Seattle, Washington



SCALE: 1" = 20'	DESIGN: S. Zorn	CHECKED: A. Fabela	ENSR PROJECT NO.: 06940-272-130
FILENAME: 06940272L3X	DRAWN: K. Mangor	DATE: December 14, 2005	

Source: Maul, Foster, and Alangi
 Autocad File: 003-02.dwg 03/27/03



GETTLER - RYAN INC.

November 8, 2007
Job #385509

Mr. Mark J. Inglis
Chevron Environmental Management Company
P.O. Box 6012, Room K2256
San Ramon, CA 94583

RE: Event of October 10, 2007
Groundwater Monitoring & Sampling Report
Chevron Facility #306491
(Former Unocal #0907)
1121 South Bailey Street
Seattle, Washington

Dear Mr. Inglis:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

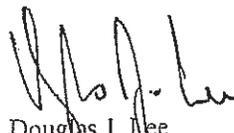
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any well. Static water level data and groundwater elevations are presented in Table 1. A Groundwater Elevation/Concentration Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. Purge water was treated by filtering the water through granular activated carbon and was subsequently discharged. The chain of custody document and laboratory analytical reports are attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,


Deanna L. Harding
Project Coordinator


Douglas J. Lee
Senior Geologist, L.G. No. 2660



Douglas J. Lee

Figure 1: Groundwater Elevation/Concentration Map
Table 1: Groundwater Monitoring Data
Table 2: Groundwater Analytical Results
Table 3: Field Measurements and Analytical Results
Table 4: Field Measurements
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

WELL ID	DATE	BTEX ¹ (µg/l)			Diesel-range ³ Hydrocarbons ³ (µg/l)	Gasoline-range ² Hydrocarbons ² (µg/l)	Kerosene-range ³ Hydrocarbons ³ (µg/l)	Heavy Oil-range ³ Hydrocarbons ³ (µg/l)	Total Arsenic ⁴ (µg/l)	Dissolved Arsenic ⁴ (µg/l)	Total Suspended Solids ⁵ (mg/l)
		B	T	E							
MW-1	06/27/01	5.12	1.49	44.3	--	621	467	ND (500)	130	4.52	4,600
	03/12/02	0.63	ND (0.500)	10.6	--	191	811	ND (500)	24	2.32	1,200
	06/04/02	7.09	2.66	190	--	2,530	597	ND (500)	5.72	1.07	200
	09/12/02	0.51	ND (0.500)	4.97	ND (1.00)	122	ND (250)	ND (500)	7.42	2.57	300
	12/10/02	3.77	1.88	69.5	--	957	ND (250)	ND (500)	9.58	2.04	370
	03/10/03	4.03	1.43	84	--	1,010	691	ND (500)	2.33	1.99	4.00
	01/24/04	0.715	ND (0.500)	15.2	--	278	906	ND (500)	8.76	ND (1.00)	230
	04/30/04	6.22	4.77	149	--	2,550	ND (250)	ND (500)	7.36	ND (1.00)	160
	07/27/04	1.54	1.15	36.5	--	522	266	ND (500)	5.75	1.61	150
	10/22/04	4.10	2.33	95.9	--	1,570	ND (250)	ND (500)	11.4	5.59	410
	01/15/05	6.06	2.35	110	--	1,930	273	ND (500)	8.1	ND (1.00)	500
	04/28/05	0.633	ND (0.500)	18.4	--	335	ND (500)	ND (500)	ND (1.00)	ND (1.00)	ND (4.0)
	07/18/05	0.754	0.503	30.5	--	418	ND (250)	ND (500)	1.39	ND (1.00)	ND (4.0)
	12/04/05	0.950	0.509	20.4	--	435	ND (236)	ND (472)	1.33	1.36	ND (4.0)
	05/17/06	ND(0.500)	ND(0.500)	11.4	1.16	205	ND (236)	ND (472)	ND (1.00)	ND (1.00)	ND (4.0)
04/04/07	<2.0	110	<2.0	10	160 ⁷	--	<100	<10	<10	49.2	
10/10/07	9.6	3.5	140	28	2,400	--	<100	<10	<10	196	
MW-2	06/27/01	10.6	7.31	345	--	5,960	1,940	ND (500)	348	6.5	6,400
	03/12/02	14.5	6.9	307	--	5,980	2,400	ND (500)	35.9	6.17	770
	06/04/02	15.6	5.8	273	134	7,680	2,480	ND (500)	12	4.31	490
	09/12/02	7.04	ND (5.0)	183	93.1	3,700	806	ND (500)	7.19	3.06	170
	12/10/02	3.64	ND (2.5)	96.2	33.7	2,050	362	ND (500)	11.7	1.87	310
	03/10/03	7.46	3.72	192	85.6	5,590	5,590	ND (500)	7.84	6.55	17.0
	01/24/04	3.47	2.15	127	43.3	2,250	2,430	ND (500)	9.1	2.49	160
	04/30/04	6.48	5.76	280	96	4,890	1,030	ND (500)	5.52	1.06	120
	07/27/04	4.90	3.92	204	67.9	3,650	608	ND (500)	8.58	1.2	89.0
	10/22/04	2.94	2.33	166	60.3	3,280	466	ND (500)	8.43	4.71	120
	01/15/05	ND (1.25)	2.42	193	63.3	3,170	672	ND (500)	2.61	1.52	160
	04/28/05	2.90	<2.50	175	61.4	3,130	773	ND (500)	1.88	1.93	9.0
	07/18/05	ND (2.5)	<2.50	155	50.6	2,430	856	ND (500)	1.98	1.59	5.5
	12/04/05	2.03	2.27	154	47.6	2,780	1,200	ND (472)	2.23	2.15	ND (4.0)

Groundwater Analytical Results
 Chevron Facility #306491
 (Former Unocal #0907)
 1121 South Bailey Street
 Seattle, Washington

WELL ID	DATE	BTEX ¹ (µg/l)				Diesel-range ³ Hydrocarbons ³ (µg/l)	Gasoline-range ² Hydrocarbons ² (µg/l)	Kerosene-range ³ Hydrocarbons ³ (µg/l)	Heavy Oil-range ³ Hydrocarbons ³ (µg/l)	Total Arsenic ⁴ (µg/l)	Dissolved Arsenic ⁴ (µg/l)	Total Suspended Solids ⁵ (mg/l)
		B	T	E	X							
MW-2 (cont)	12/04/05 (D)	1.91	1.95	144	43.6	--	2,960	1,080	ND (472)	--	--	--
	05/17/06 (D)	24.1	6.32	244	80.4	--	4,690	1,310	ND (472)	2.62	2.60	17
	05/17/06 (D)	24.3	4.51	226	81.2	--	5,320	1,290	ND (472)	--	--	--
	04/04/07 (D)	<4.0	270	<3.0	93	760	5,100	<99	<100	<10	<10	101
10/10/07 (D)	16	4.8 ⁷	210	70	1,200	4,200	--	<100	<10	<10	171	
MW-3	06/27/01 (D)	0.73	0.71	1.31	6.43	--	1,270	631	ND (500)	79.7	3.17	3,700
	03/12/02 (D)	ND (0.500)	ND (0.500)	ND (0.500)	2.22	--	491	391	ND (500)	4.97	1	150
	06/04/02 (D)	ND (0.500)	ND (0.500)	0.55	3.45	--	628	416	ND (500)	1.21	ND (1.00)	51.0
	09/12/02 (D)	ND (0.500)	ND (0.500)	ND (0.500)	3.09	--	495	ND (250)	ND (500)	2.56	ND (1.00)	54.0
	12/10/02 (D)	ND (0.500)	ND (0.500)	ND (0.500)	2.58	--	305	ND (250)	ND (500)	2.13	1.02	56.0
	03/10/03 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	264	ND (250)	ND (500)	ND (1.00)	ND (1.00)	ND (4.0)
	01/24/04 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	85	ND (250)	ND (500)	2.6	ND (1.00)	64.0
	04/30/04 (D)	ND (0.500)	ND (0.500)	ND (0.500)	1.42	--	347	ND (250)	ND (500)	2.85	ND (1.00)	22.0
	07/27/04 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	175	ND (250)	ND (500)	9.3	5.03	74.0
	10/22/04 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (250)	ND (500)	2.8	2.73	17.0
	01/15/05 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	190	ND (250)	ND (500)	3.24	ND (1.00)	76.0
	04/28/05 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	60.6	ND (500)	ND (500)	ND (1.00)	ND (1.00)	20.0
	07/18/05 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	108	ND (250)	ND (500)	2.22	ND (1.00)	ND (4.0)
12/04/05 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	211	ND (236)	ND (472)	1.20	ND (1.00)	ND (4.0)	
05/17/06 (D)	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND(50.0)	ND (236)	ND (472)	ND (1.00)	ND (1.00)	ND (4.0)	

800 yd/l → cleanup level

NOT PART OF MONITORING/SAMPLING PROGRAM

MW-4	06/27/01 (D)	ND (1.25)	ND (1.25)	59.6	232	--	2,640	367	ND (500)	19.9	3.54	4,200
	03/12/02 (D)	ND (0.500)	ND (0.500)	8.04	25.2	--	337	396	ND (500)	10.0	1.69	840
	06/04/02 (D)	ND (0.500)	ND (0.500)	35.9	127	--	1,380	397	ND (500)	2.46	1.31	140
	09/12/02 (D)	ND (0.500)	33.6	ND (0.500)	125	--	1,140	ND (250)	ND (500)	2.26	1.21	91.0
12/10/02 (D)	ND (0.500)	ND (0.500)	13.5	34	--	507	ND (250)	ND (500)	2.21	1.19	110	
03/10/03 (D)	ND (0.500)	ND (0.500)	27.7	80.4	--	951	621	ND (500)	1.45	1.31	7.0	
01/24/04 (D)	ND (0.500)	ND (0.500)	0.877	ND (1.00)	--	86.7	ND (250)	ND (500)	1.03	ND (1.00)	480	
04/30/04 (D)	ND (0.500)	ND (0.500)	4.16	1.95	--	176	ND (250)	ND (500)	7.26	ND (1.00)	330	
07/27/04 (D)	ND (0.500)	ND (0.500)	1.38	ND (1.00)	--	53.2	ND (250)	ND (500)	12.3	ND (1.00)	330	

Groundwater Analytical Results

Chevron Facility #306491
 (Former Unocal #0907)
 1121 South Bailey Street
 Seattle, Washington

WELL ID	DATE	BTEX ¹ (µg/l)			Diesel-range Hydrocarbons ³ (µg/l)	Gasoline-range Hydrocarbons ² (µg/l)	Kerosene-range Hydrocarbons ³ (µg/l)	Heavy Oil-range Hydrocarbons ³ (µg/l)	Total Arsenic ⁴ (µg/l)	Dissolved Arsenic ⁴ (µg/l)	Total Suspended Solids ⁵ (mg/l)
		B	T	E							
MW-6 (cont)	01/24/04	ND (0.500)	ND (0.500)	1.38	ND (0.500)	334	335	ND (500)	1.45	ND (1.00)	22.0
	04/30/04	0.755	0.603	3.48	3.44	1,060	310	ND (500)	3.95	ND (1.00)	45.0
	07/27/04	0.907	0.797	1.71	4.96	954	ND (250)	ND (500)	5.61	1.07	58.0
	10/22/04	ND (0.500)	ND (0.500)	0.931	1.27	420	ND (250)	ND (500)	3.56	3.24	3.0
	01/15/05	ND (0.500)	ND (0.500)	1.12	3.69	812	ND (250)	ND (500)	3	ND (1.00)	64.0
	04/28/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/05	ND (0.500)	ND (0.500)	0.588	ND (1.00)	270	ND (250)	ND (500)	ND (1.00)	ND (1.00)	ND (4.0)
	12/04/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/17/06	ND (0.500)	ND (0.500)	0.514	ND (1.00)	183	ND (236)	ND (472)	ND (1.00)	ND (1.00)	ND (4.0)
	NOT PART OF MONITORING/SAMPLING PROGRAM										
MW-7	03/12/02	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (500)	ND (500)	155	1.23	7,900
	06/04/02	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	25.4	1.68	1,500
	09/12/02	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	11.1	2.1	550
	12/10/02	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	10.0	1.62	350
	03/10/03	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	1.71	1.38	ND (4.0)
	01/24/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	6.02	ND (1.00)	890
	04/30/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	7.30	ND (1.00)	370
	07/27/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	7.84	1.68	390
	10/22/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	3.48	3.47	98.0
	01/15/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	6.56	ND (1.00)	240
	04/28/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/18/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	ND (1.00)	ND (1.00)	ND (4.0)
	12/04/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/17/06	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (236)	ND (472)	ND (1.00)	ND (1.00)	ND (4.0)
NOT PART OF MONITORING/SAMPLING PROGRAM											
MW-8	03/12/02	ND (0.500)	3.42	ND (0.500)	ND (1.00)	ND (50)	ND (500)	ND (500)	76.6	ND (1.00)	4,300
	06/04/02	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	7.39	ND (1.00)	590
	09/12/02	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (86)	ND (250)	ND (500)	2.85	ND (1.00)	190
	12/10/02	ND (0.500)	ND (0.500)	0.51	2.54	ND (203)	ND (250)	ND (500)	2.03	1.42	120
	03/10/03	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	ND (1.00)	ND (1.00)	ND (4.0)
	01/24/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	ND (50)	ND (250)	ND (500)	3.93	ND (1.00)	300

Groundwater Analytical Results

Chevron Facility #306491
 (Former Unocal #0907)
 1121 South Bailey Street
 Seattle, Washington

WELL ID	DATE	PTEX ¹ (µg/l)			Diesel-range ³ Hydrocarbons ³ (µg/l)		Gasoline-range ³ Hydrocarbons ³ (µg/l)		Kerosene-range ³ Hydrocarbons ³ (µg/l)		Heavy Oil-range ³ Hydrocarbons ³ (µg/l)		Total ³ Arsenic ³ (µg/l)		Dissolved ¹ Arsenic ¹ (µg/l)		Total Suspended ⁵ Solids ⁵ (µg/l)		
		B	T	E	X														
MW-8 (cont)	04/30/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	1.74	ND (1.00)	410				
	07/27/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	7.71	1.43	160				
	10/22/04	ND (0.500)	ND (0.500)	0.548	ND (1.00)	--	89.6	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	4.28	3.1	100				
	01/15/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	56.6	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	4.84	1.99	130				
	04/28/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1.00)	1.17	1.16	ND (4.0)				
	07/18/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	3.66	1.44	54.0				
	12/04/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	51.1	ND (236)	ND (236)	ND (236)	ND (236)	ND (4.0)	2.09	2.53	ND (4.0)				
05/17/06	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (240)	ND (481)	ND (481)	ND (481)	ND (4.0)	ND (1.00)	ND (1.00)	ND (4.0)					
NOT PART OF MONITORING/SAMPLING PROGRAM																			
MW-9 ⁶	01/24/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	55.3	264	ND (500)	ND (500)	ND (500)	ND (1.00)	6.86	1.02	3,600				
	04/30/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	54.7	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	18.8	1.46	250				
	07/27/04	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	57.4	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	31.3	3.06	960				
	10/22/04	0.632	ND (0.500)	ND (0.500)	ND (1.00)	--	126	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	16.2	8.85	530				
	01/15/05	0.722	ND (0.500)	0.672	1.41	--	164	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	9.21	3.22	530				
	04/28/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (500)	ND (500)	ND (500)	ND (500)	ND (1.00)	2.24	2.21	6.5				
	07/18/05	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (250)	ND (500)	ND (500)	ND (500)	ND (1.00)	2.67	2.85	ND (4.0)				
12/04/05	NS	NS	NS	NS	--	NS	NS	NS	NS	NS	NS	NS	NS	NS					
05/17/06	ND (0.500)	ND (0.500)	ND (0.500)	ND (1.00)	--	ND (50)	ND (236)	ND (472)	ND (472)	ND (472)	ND (4.0)	1.41	1.06	ND (4.0)					
NOT PART OF MONITORING/SAMPLING PROGRAM																			
TRIP BLANK																			
QA	04/04/07	<0.5	<0.5	<0.5	<1.5	--	<50	--	--	--	--	--	--	--	--	--	--	--	--
	10/10/07	<0.5	<0.5	<0.5	<1.5	--	<50	--	--	--	--	--	--	--	--	--	--	--	--

Groundwater Analytical Results

Chevron Facility #306491
(Former Unocal #0907)
1121 South Bailey Street
Seattle, Washington

EXPLANATIONS:

Groundwater laboratory analytical results prior to April 4, 2007, were compiled from reports provided by ENSR International.

($\mu\text{g/l}$) = micrograms per liter
(mg/l) = milligrams per liter
NL = No cleanup level
NS = Not sampled
(D) = Duplicate

- 1 B = Benzene, T = Toluene, E = Ethylbenzene, X = Total Xylenes. Analyzed by EPA Method 8021B.
- 2 Gasoline-range hydrocarbons analyzed by Northwest Method NWTPH-Gx.
- 3 Diesel-Range, Kerosene-range and heavy oil-range hydrocarbons analyzed by Northwest Method NWTPH-Dx with Acid/Silica Gel cleanup.
- 4 Total and dissolved arsenic analyzed by EPA 6000/7000 Series Methods.
- 5 Total suspended solids analyzed by EPA Method 160.2
- 6 Monitoring Well MW-9 was installed in November of 2003.
- 7 Laboratory report indicates estimated value.

MTCA = Washington State Department of Ecology Model Toxics Control Act

