

# GETTLER - RYAN INC.

December 20, 2002  
Job #386765

Mr. Brett Hunter  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: Event of October 17 and 18, 2002  
Event of November 14, 2002**  
Groundwater Monitoring & Sampling Report  
Former Texaco Service Station  
631 Queen Anne North  
Seattle, Washington  
(Site #211577)

Dear Mr. Hunter:

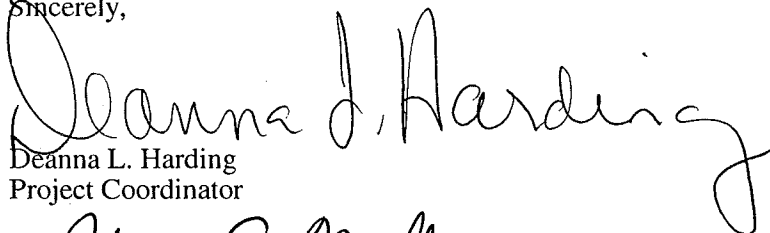
This report documents the groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All fieldwork was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

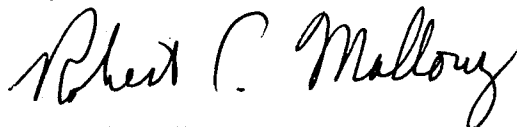
Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were present in three wells (VP-4, VP-6 and MW-6). Separate Phase Hydrocarbon Thickness/Removal Data is presented in Table 2. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric 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. A Concentration Map is included as Figure 2. 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.

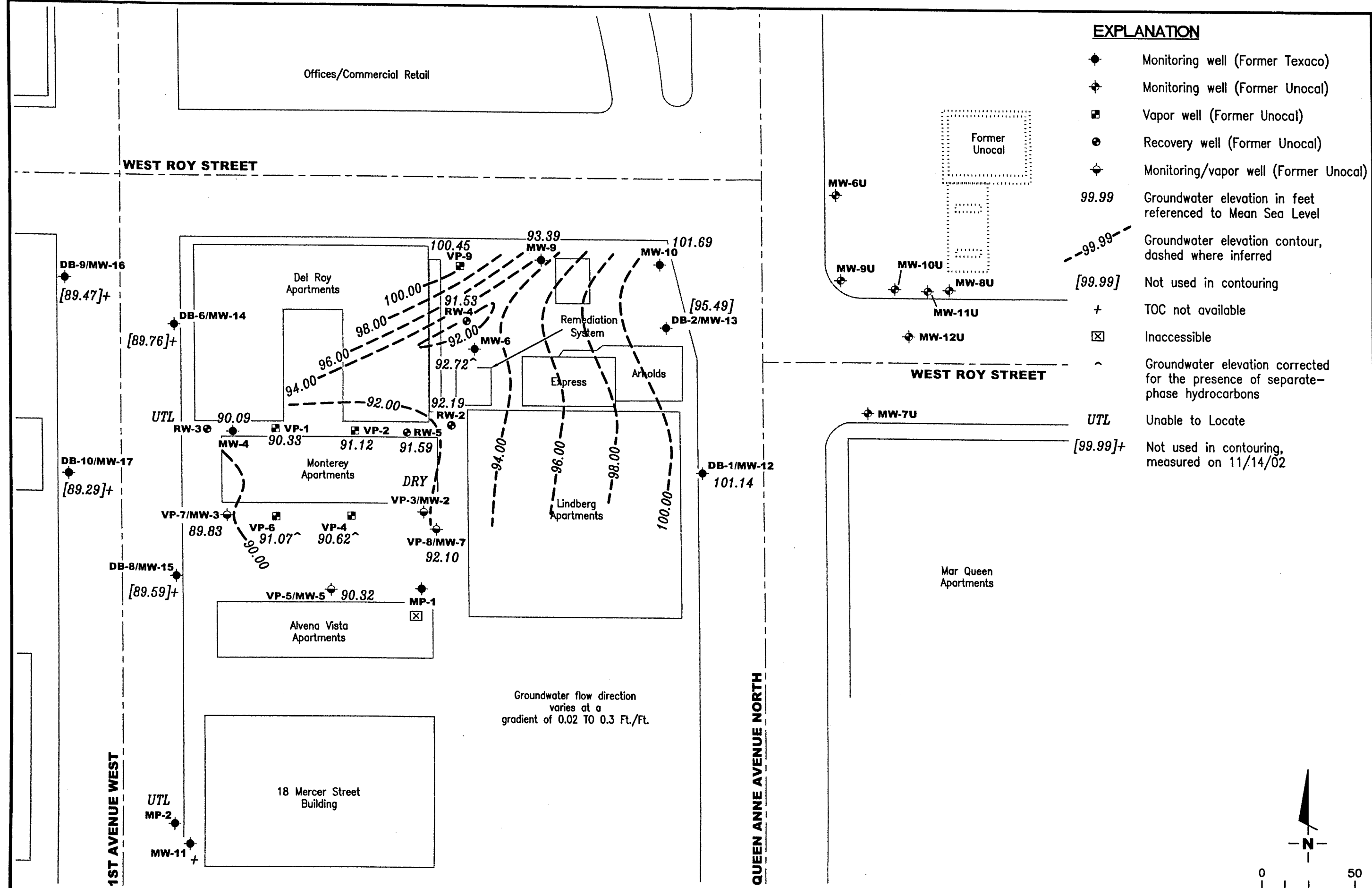
Sincerely,

  
Deanna L. Harding  
Project Coordinator



Robert C. Mallory  
Registered Geologist

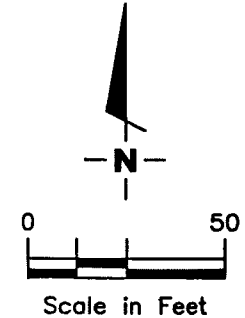
Figure 1: Potentiometric Map  
Figure 2: Concentration Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Separate Phase Hydrocarbon Thickness/Removal Data  
Table 3: Groundwater Analytical Results - SVOC and PAH  
Table 4: Groundwater Analytical Results - SVOC  
Table 5: Groundwater Analytical Results - Dissolved Metals  
Table 6: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



**EXPLANATION**

- ◆ Monitoring well (Former Texaco)
- ⊕ Monitoring well (Former Unocal)
- ▣ Vapor well (Former Unocal)
- ⊙ Recovery well (Former Unocal)
- ⊕ Monitoring/vapor well (Former Unocal)
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level
- - - 99.99 - - - Groundwater elevation contour, dashed where inferred
- [99.99] Not used in contouring
- + TOC not available
- ⊠ Inaccessible
- ^ Groundwater elevation corrected for the presence of separate-phase hydrocarbons
- UTL Unable to Locate
- [99.99]+ Not used in contouring, measured on 11/14/02

Groundwater flow direction varies at a gradient of 0.02 TO 0.3 Ft./Ft.



**POTENTIOMETRIC MAP**

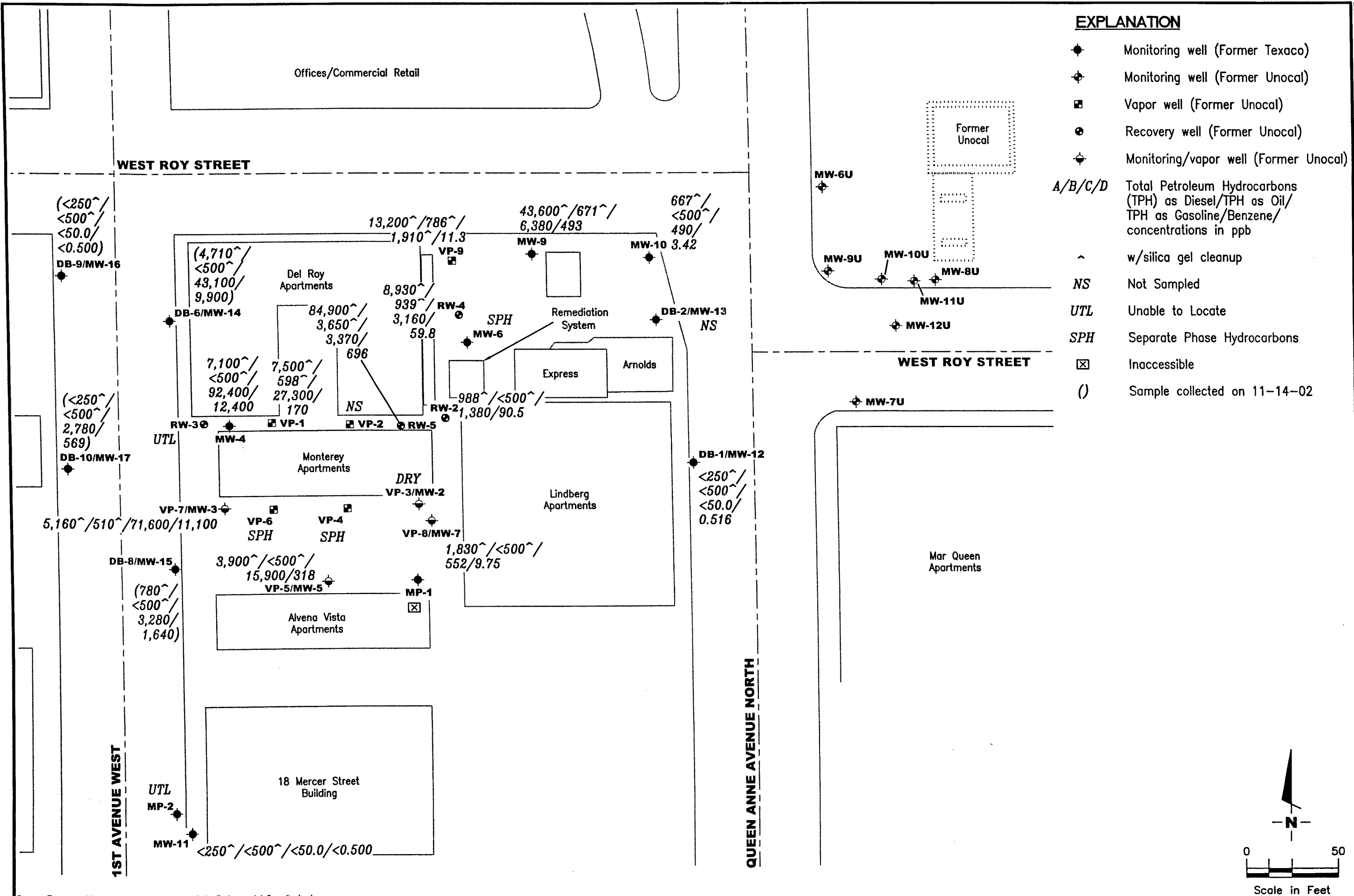
Former Texaco Service Station  
631 Queen Anne North  
Seattle, Washington (Site #211577)

**GETTLER - RYAN INC.**

6747 Sierra Ct., Suite J  
Dublin, CA 94568  
(925) 551-7555

PROJECT NUMBER 386765  
REVIEWED BY  
DATE October 17 and 18, 2002  
REVISED DATE

Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

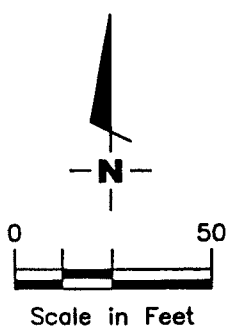


**EXPLANATION**

- ◆ Monitoring well (Former Texaco)
- ⊕ Monitoring well (Former Unocal)
- ▣ Vapor well (Former Unocal)
- ⊙ Recovery well (Former Unocal)
- ⊕ Monitoring/vapor well (Former Unocal)

A/B/C/D Total Petroleum Hydrocarbons (TPH) as Diesel/TPH as Oil/TPH as Gasoline/Benzene/concentrations in ppb

- ~ w/silica gel cleanup
- NS Not Sampled
- UTL Unable to Locate
- SPH Separate Phase Hydrocarbons
- ⊠ Inaccessible
- () Sample collected on 11-14-02



**CONCENTRATION MAP**  
 Former Texaco Service Station  
 631 Queen Anne North  
 Seattle, Washington (Site #211577)

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Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
<b>VP-1</b>											
103.03	07/24/2002	11.59	91.44	0.00	18,000 <sup>1</sup>	1,500 <sup>1</sup>	35,000	120	820	280	4,600
	10/17-18/02	12.70	90.33	0.00	7,500 <sup>1</sup>	598 <sup>1,2</sup>	27,300	170	756	334	4,820
<b>VP-2</b>											
104.72	07/24/2002	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	10/17-18/02	13.60	91.12	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER				--	--	--
<b>VP-3 (MW-2)</b>											
104.75	07/24/2002	DRY	--	--	--	--	--	--	--	--	--
	10/17-18/02	DRY	--	--	--	--	--	--	--	--	--
<b>VP-4</b>											
103.35	07/24/2002	11.89	91.46	0.00	78,000 <sup>1</sup>	<9,700 <sup>1</sup>	89,000	7,300	7,500	1,900	13,000
	10/17-18/02	12.75	90.62**	0.03	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--
<b>VP-5 (MW-5)</b>											
102.63	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
	10/17-18/02	12.31	90.32	0.00	3,900 <sup>1</sup>	<500 <sup>1</sup>	15,900	318	49.3	880	1,870
<b>VP-6</b>											
101.90	07/24/2002	10.60	92.56**	1.58	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--
	10/17-18/02	11.35	91.07**	0.65	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--
<b>VP-7 (MW-3)</b>											
100.40	07/24/2002	9.74	90.66	0.00	5,800 <sup>1</sup>	580 <sup>1</sup>	60,000	8,200	7,000	1,500	8,300
	10/17-18/02	10.57	89.83	0.00	5,160 <sup>1</sup>	510 <sup>1,2</sup>	71,600	11,100	5,880	1,940	10,800

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<b>VP-8 (MW-7)</b>											
104.88	07/24/2002	11.70	93.18	0.00	1,800 <sup>1</sup>	420 <sup>1</sup>	1,500	9.4	9.2	34	50
	10/17-18/02	12.78	92.10	0.00	1,830 <sup>1</sup>	<500 <sup>1</sup>	552	9.75	1.45	4.25	5.73
<b>VP-9</b>											
112.35	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
	10/17-18/02	11.90	100.45	0.00	13,200 <sup>1</sup>	786 <sup>1,2</sup>	1,910	11.3	2.62	8.86	14.7
<b>MW-4</b>											
102.07	07/24/2002	11.18	90.89	0.00	10,000 <sup>1</sup>	680 <sup>1</sup>	83,000	11,000	9,900	1,800	11,000
	10/17-18/02	11.98	90.09	0.00	9,860 <sup>1</sup>	697 <sup>1,2</sup>	110,000	14,500	11,600	2,630	15,200
(D)	10/17-18/02	--	--	--	7,100 <sup>1</sup>	<500 <sup>1</sup>	92,400	12,400	9,980	2,090	12,200
<b>MW-6</b>											
113.32	07/24/2002	19.76	93.56	0.00	29,000 <sup>1</sup>	<10,000 <sup>1</sup>	31,000	8,900	1,600	820	4,200
	10/17-18/02	20.64	92.72**	0.05	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--
<b>MW-9</b>											
114.27	10/17-18/02	20.88	93.39	0.00	43,600 <sup>1</sup>	671 <sup>1,2</sup>	6,380	493	13.0	230	107
<b>MW-10</b>											
115.28	07/24/2002	13.14	102.14	0.00	320 <sup>1</sup>	600 <sup>1</sup>	240	2.5	<0.50	<1.0	<1.5
	10/17-18/02	13.59	101.69	0.00	667 <sup>1</sup>	<500 <sup>1</sup>	490	3.42	<0.500	1.34	5.00
<b>MW-11</b>											
	07/24/2002	11.16	--	0.00	<250 <sup>1</sup>	<250 <sup>1</sup>	<50	<0.50	<0.50	<0.50	<1.5
	10/17-18/02	11.43	--	0.00	<250 <sup>1</sup>	<500 <sup>1</sup>	<50.0	<0.500	<0.500	<0.500	<1.00

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DB-1 (MW-12) 113.36	10/17-18/02	12.22	101.14	0.00	<250 <sup>1</sup>	<500 <sup>1</sup>	<50.0	0.516	0.869	<0.500	<1.00
DB-2 (MW-13) 114.80	10/17-18/02	19.31	95.49	0.00	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--
DB-6 (MW-14) 101.64	10/17-18/02 11/14/02	-- 11.88	-- 89.76	-- 0.00	-- 4,710 <sup>1</sup>	-- <500 <sup>1</sup>	-- 43,100 <sup>3</sup>	-- 9,900 <sup>3</sup>	-- 4,930 <sup>3</sup>	-- 1,540 <sup>3</sup>	-- 6,020 <sup>3</sup>
DB-8 (MW-15) 99.03	10/17-18/02 11/14/02	-- 9.44	-- 89.59	-- 0.00	-- 780 <sup>1</sup>	-- <500 <sup>1</sup>	-- 3,280	-- 1,640	-- 5.23	-- 5.06	-- <10.0
DB-9 (MW-16) 101.83	10/17-18/02 11/14/02	-- 12.36	-- 89.47	-- 0.00	-- <250 <sup>1</sup>	-- <500 <sup>1</sup>	-- <50.0	-- <0.500	-- <0.500	-- <0.500	-- <1.00
DB-10 (MW-17) 99.29	10/17-18/02 11/14/02	-- 10.00	-- 89.29	-- 0.00	-- <250 <sup>1</sup>	-- <500 <sup>1</sup>	-- 2,780	-- 569	-- 31.0	-- 91.1	-- 250
RW-2 106.63	07/24/2002 NP 10/17-18/02	UNABLE TO LOCATE 14.44		-- 0.00	-- 988 <sup>1</sup>	-- <500 <sup>1</sup>	-- 1,380	-- 90.5	-- 8.05	-- 29.2	-- 31.5

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<b>RW-3</b>											
100.70	07/24/2002	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	10/17-18/02	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
<b>RW-4</b>											
110.82	07/24/2002	18.30	92.52	0.00	15,000 <sup>1</sup>	<2,000 <sup>1</sup>	990	62	1.3	32	7.0
	10/17-18/02	19.29	91.53	0.00	8,930 <sup>1</sup>	939 <sup>1</sup>	3,160	59.8	2.50	40.4	15.6
<b>RW-5</b>											
104.22	07/24/2002	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	10/17-18/02	12.63	91.59	0.00	84,900 <sup>1</sup>	3,650 <sup>1</sup>	3,370	696	67.2	63.0	408
<b>MP-1</b>											
	07/24/2002	INACCESSIBLE - UNABLE TO OPEN WELL				--	--	--	--	--	--
	10/17-18/02	INACCESSIBLE - UNABLE TO OPEN WELL				--	--	--	--	--	--
<b>MP-2</b>											
	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--
	10/17-18/02	--	--	--	--	--	--	--	--	--	--

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Former Texaco Service Station (Site #211577)  
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Seattle, Washington

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
Trip Blank											
QA	07/24/2002	--	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5
	10/17-18/02	--	--	--	--	--	<b>&lt;50.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;1.00</b>
	11/14/02	--	--	--	--	--	<b>&lt;50.0</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;0.500</b>	<b>&lt;1.00</b>

	TPH-D	TPH-O	TPH-G	B	T	E	X
Standard Laboratory Reporting Limits:	250	250	50.0	0.500	0.500	0.500	1.00
MTCA Method A Cleanup Levels:	1,000	1,000	1,000	5.0	40	30	20
Current Method:	NWTPH-D Extended		NWTPH-G and EPA 8021B				



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

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**EXPLANATIONS:**

TOC = Top of Casing (ft.) = Feet	TPH-G = Total Petroleum Hydrocarbons as Gasoline B = Benzene	-- = Not Measured/Not Analyzed QA = Quality Assurance/Trip Blank
DTW = Depth to Water	T = Toluene	NP = No Purge
GWE = Groundwater Elevation (msl) = Mean Sea Level	E = Ethylbenzene X = Xylenes	MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 12/93].
TPH-D = Total Petroleum Hydrocarbons as Diesel	D. LEAD = Dissolved Lead	
TPH-O = Total Petroleum hydrocarbons as Oil	(ppb) = Parts per billion	

\* TOC elevations have been surveyed in feet relative to msl.

\*\* GWE corrected due to the presence of SPH; correction factor:  $[(TOC - DTW) + (SPHT \times 0.8)]$ .

<sup>1</sup> Analysis with silica gel cleanup.

<sup>2</sup> Laboratory report indicates the heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.

<sup>3</sup> Laboratory report indicates this sample was received and analyzed unpreserved.

**Table 3**  
**Groundwater Analytical Results - SVOC and PAH**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID	DATE	2-Methylnaphthalene (ppb)	2,4-Dimethylphenol (ppb)	Naphthalene (ppb)	Phenol (ppb)	2-Methylphenol (ppb)	4-Methylphenol (ppb)	bis (2-Ethylhexyl) phthalate (ppb)	Benzoic acid (ppb)
VP-1	07/24/2002	84	80	160	ND	13	18	31	<10
VP-2	07/24/2002	UNABLE TO LOCATE		--	--	--	--	--	--
VP-5 (MW-5)	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--
VP-7 (MW-3)	07/24/2002	69	28	420	ND	<5.0	6	<10	34
VP-8 (MW-7)	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10
VP-9	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--
MW-4	07/24/2002	160	24	500	ND	6	9	<10	<10
MW-10	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	13	<10
MW-11	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10

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Seattle, Washington

WELL ID	DATE	2-Methylnaphthalene (ppb)	2,4-Dimethylphenol (ppb)	Naphthalene (ppb)	Phenol (ppb)	2-Methylphenol (ppb)	4-Methylphenol (ppb)	bis (2-Ethylhexyl) phthalate (ppb)	Benzoic acid (ppb)
DB-1 (MW-12)	10/17-18/02	<10.0	<10.0	<10.0	<10.0	<10.0	--	<50.0	<20.0
DB-2 (MW-13)	10/17-18/02	--	--	--	--	--	--	--	--
DB-6 (MW-14)	10/17-18/02	--	--	--	--	--	--	--	--
	11/14/02	52.2	13.4	242	34.5	11.0	24.8 <sup>1</sup>	<50.0	<20.0
DB-8 (MW-15)	10/17-18/02	--	--	--	--	--	--	--	--
	11/14/02	<10.0	<10.0	<10.0	37.0	<10.0	<10.0 <sup>1</sup>	<50.0	<20.0
RW-4	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10

**Table 3**  
**Groundwater Analytical Results - SVOC and PAH**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

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**EXPLANATIONS:**

(ppb) = Parts per billion

-- = Not Analyzed

ND = Not Detected

<sup>1</sup> Results are for 3 & 4-Methylphenol.

**ANALYTICAL METHODS:**

Semi-Volatile Organic Compounds (SVOC) by EPA Method 8270

Polynuclear Aromatic Hydrocarbons (PAH) by EPA Method 8270

**NOTE:**

Other PAH and SVOC constituents were less than the reporting limit.

**Table 4**  
**Groundwater Analytical Results - SVOC**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID/	DATE	Chloroform (ppb)	cis-1,2-Dichloroethene (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Tetrachloroethene (ppb)	Trichloroethene (ppb)	m+p-Xylene (ppb)	o-Xylene (ppb)	Isopropylbenzene (ppb)	n-Propylbenzene (ppb)	1,3,5-Trimethylbenzene (ppb)	1,2,4-Trimethylbenzene (ppb)	sec-Butylbenzene (ppb)	p-Isopropyltoluene (ppb)	n-Butylbenzene (ppb)	Naphthalene (ppb)	Methyl t-butyl ether (ppb)	t-Butyl alcohol (ppb)
VP-3 (MW-2)	07/24/02	DRY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VP-5 (MW-5)	07/24/02	INACCESSIBLE - CAR PARKED OVER WELL																		
VP-7 (MW-3)	10/17-18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10.0	<100
VP-9	07/24/02	INACCESSIBLE - CAR PARKED OVER WELL																		
MW-4	07/24/02	ND	<8.0	12,000	10,000	1,800	ND	ND	8,900	3,500	46	140	500	1,800	<10	<10	23	360	6	120
	10/17-18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<50.0	<500
MW-10	07/24/02	ND	15	2	<0.5	<0.5	ND	ND	<0.5	<0.5	<2	<1	<1	<1	1	<1	<1	<2	<2	<100
MW-11	07/24/02	ND	<1	<0.5	<0.5	<0.5	ND	ND	<0.5	<0.5	<2	<1	<1	<1	<1	<1	<1	<2	<2	<100
DB-1 (MW-12)	10/17-18/02	1.68	9.07	<1.00	<1.00	<1.00	9.58	2.75	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<5.00	<50.0

**Table 4**  
**Groundwater Analytical Results - SVOC**  
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Seattle, Washington

WELL ID/	DATE	Chloroform (ppb)	cis-1,2-Dichloroethene (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Tetrachloroethene (ppb)	Trichloroethene (ppb)	m+p-Xylene (ppb)	o-Xylene (ppb)	Isopropylbenzene (ppb)	n-Propylbenzene (ppb)	1,3,5-Trimethylbenzene (ppb)	1,2,4-Trimethylbenzene (ppb)	sec-Butylbenzene (ppb)	p-Isopropyltoluene (ppb)	n-Butylbenzene (ppb)	Naphthalene (ppb)	Methyl t-butyl ether (ppb)	t-Butyl alcohol (ppb)
DB-2 (MW-13)	10/17-18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DB-6 (MW-14)	10/17-18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DB-8 (MW-15)	10/17-18/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RW-4	07/24/02	ND	<1	70	1	36	ND	ND	3	2	<2	3	<1	20	<1	2	1	5	<2	<100

**Table 4**  
**Groundwater Analytical Results - SVOC**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

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**EXPLANATIONS:**

(ppb) = Parts per billion  
SVOC = Volatile Organic Compounds  
-- = Not Analyzed  
ND = Not Detected

**ANALYTICAL METHOD:**

SVOC by EPA Method 8260

**NOTE:**

Other SVOC were less than the reporting limit.

**Table 5**  
**Groundwater Analytical Results - Dissolved Metals**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID/	DATE	MERCURY (ppb)	ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
VP-1	07/24/2002	--	--	--	--	22.9	--	--	--
	10/17-18/02 <sup>1</sup>	--	--	--	--	18.0	--	--	--
VP-2	07/24/2002	UNABLE TO LOCATE			--	--	--	--	--
	10/17-18/02	NOT SAMPLED DUE TO INSUFFICIENT WATER			--	--	--	--	--
VP-3 (MW-2)	07/24/2002	DRY	--	--	--	--	--	--	--
	10/17-18/02	DRY	--	--	--	--	--	--	--
VP-4	07/24/2002	--	--	--	--	28.0	--	--	--
	10/17-18/02	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
VP-5 (MW-5)	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--
	10/17-18/02 <sup>1</sup>	--	--	--	--	2.29	--	--	--
VP-6	07/24/2002	NOT SAMPLED - DUE TO PRESENCE OF SPH			--	--	--	--	--
	10/17-18/02	NOT SAMPLED DUE TO THE PRESENCE OF SPH			--	--	--	--	--
VP-7 (MW-3)	07/24/2002	<0.079	97.3	<0.080	2.2	25.0	<1.1	0.068	33.6
	10/17-18/02	--	--	--	--	2.40	--	--	--
VP-8 (MW-7)	07/24/2002	<0.079	2.1	0.13	0.82	11.4	<1.1	<0.050	49.6
	10/17-18/02	--	--	--	--	1.93	--	--	--



**Table 5**  
**Groundwater Analytical Results - Dissolved Metals**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID/	DATE	MERCURY (ppb)	ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
VP-9	07/24/2002	INACCESSIBLE - CAR PARKED OVER WELL			--	--	--	--	--
	10/17-18/02	--	--	--	--	<1.00	--	--	--
MW-4  (D)	07/24/2002	<0.079	31.0	<0.080	<0.28	15.5	<1.1	<0.050	63.8
	10/17-18/02 <sup>1</sup>	--	--	--	--	10.7	--	--	--
	10/17-18/02	--	--	--	--	9.61	--	--	--
MW-6	07/24/2002	--	--	--	--	5.1	--	--	--
	10/17-18/02	NOT SAMPLED DUE TO THE PRESENCE OF SPH				--	--	--	--
MW-9	10/17-18/02	--	--	--	--	2.66	--	--	--
MW-10	07/24/2002	<0.079	4.1	0.17	0.38	1.3	<1.1	<0.050	52.1
	10/17-18/02	--	--	--	--	<1.00	--	--	--
MW-11	07/24/2002	--	--	--	--	<1.2	--	--	--
	10/17-18/02	--	--	--	--	<1.00	--	--	--
DB-6 (MW-14)	11/14/02	<1.00	17.0	<1.00	<1.00	1.82	1.48	<1.00	18.4
DB-8 (MW-15)	11/14/02	<1.00	1.33	<1.00	<1.00	1.04	<1.00	<1.00	<10.0
DB-9 (MW-16)	11/14/02	--	--	--	--	<1.00	--	--	--

**Table 5**  
**Groundwater Analytical Results - Dissolved Metals**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID/	DATE	MERCURY (ppb)	ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
DB-10 (MW-17)	11/14/02	--	--	--	--	<1.00	--	--	--
RW-2	07/24/2002	UNABLE TO LOCATE	--	--	--	--	--	--	--
	10/17-18/02	--	--	--	--	2.23	--	--	--
RW-3	07/24/2002	UNABLE TO LOCATE	--	--	--	--	--	--	--
	10/17-18/02	UNABLE TO LOCATE	--	--	--	--	--	--	--
RW-4	07/24/2002	<0.079	6.1	<0.080	1.2	3.3	<1.1	<0.050	66.9
	10/17-18/02	--	--	--	--	1.23	--	--	--
RW-5	07/24/2002	UNABLE TO LOCATE	--	--	--	--	--	--	--
	10/17-18/02	--	--	--	--	3.91	--	--	--

**Table 5**  
**Groundwater Analytical Results - Dissolved Metals**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

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**EXPLANATIONS:**

(ppb) = Parts per billion

-- = Not Analyzed

(D) - Duplicate

**ANALYTICAL METHODS:**

Dissolved Metals by EPA Method Series 7000

Barium TR by EPA Method 6010B

<sup>1</sup> Organic Lead was <300 ppb.

**Table 6**  
**Groundwater Analytical Results - Oxygenate Compounds**  
Former Texaco Service Station (Site #211577)  
631 Queen Anne North  
Seattle, Washington

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
DB-1 (MW-12)	10/18/02	--	<50.0	<5.00	--	<1.00	<1.00	--	--
VP-7 (MW-3)	10/18/02	<40.0	<100	<10.0	<2.00	<2.00	<2.00	<1.00	<1.00
MW-4	10/18/02	<200	<500	<50.0	<10.0	<10.0	<10.0	<5.00	<5.00

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
MTBE = Methyl tertiary butyl ether  
DIPE = Di-isopropyl ether  
ETBE = Ethyl tertiary butyl ether  
TAME = Tertiary amyl methyl ether  
1,2- DCA = 1,2-Dichloroethane  
EDB = 1,2-Dibromoethane  
(ppb) = Parts per billion

**ANALYTICAL METHOD:**

EPA Method 8260 for Oxygenate Compounds

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize. Purge water is treated by filtering the water through granular activated carbon and is subsequently discharged to the ground surface at the site.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used for all samples. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4NC for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

***FORMER TEXACO SERVICE STATION***  
***Seattle, Washington***  
***(Site #211577)***

***MONITORING & SAMPLING***  
***EVENT OF OCTOBER 17 and 18, 2002***



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BHL

Well ID: VP - 1 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 14.81 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water: 12.70 ft.  

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

  
2.11 xVF .17 = .36 x3 (case volume) = Estimated Purge Volume: 1 gal.

**Purge Equipment:** Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1500 Weather Conditions: Sunny  
 Sample Time/Date: 1510 / Water Color: Clear Odor: slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1505</u>	<u>1</u>	<u>6.91</u>	<u>330</u>	<u>14.7</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VP - 1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>NC</u>	<u>TPH-G/BTEX/MTBE</u>
<u>VP 1</u>	<u>1</u> Amber L	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH (D) x w/SG</u>
<u>VP 1</u>	<u>1</u> 500 mL PI	<u>↓</u>	<u>NP</u>	<u>↓</u>	<u>Diss. Lead</u>
<u>VP 1</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TEL</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP - 2 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 14.55 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water: 13.60 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x 10a vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Insufficient water to sample

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP - 3 / MW - 2 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Total Depth: 9.10 ft.  
 Depth to Water: DRY ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Well is dry

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP - 4 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Thickness: 03 ft. Amount Bailed (product/water): 0 gal.  
 Total Depth: 14.70 ft.  
 Depth to Water: 12.75 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Not sampled due to SPT

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID VP - 5 / MW-5 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Amount Bailed  
 Total Depth 16.50 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water 12.31 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

4.19 xVF .17 = .71 x3 (case volume) = Estimated Purge Volume: 2 gal.

**Purge Equipment:** Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1200 Weather Conditions: Sunny  
 Sample Time/Date: 1210 / 1 Water Color: clear Odor: YES  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1202</u>	<u>1</u>	<u>6.81</u>	<u>341</u>	<u>15.0</u>		
<u>1204</u>	<u>2</u>	<u>6.76</u>	<u>329</u>	<u>14.8</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VP - 5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>NC</u>	<u>TPH-G/BTEX/MTBE</u>
<u>VP 5</u>	<u>1</u> Amber L	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(C) x W/S&amp;E</u>
<u>VP 5</u>	<u>1</u> 500ml Pl.	<u>↓</u>	<u>NA</u>	<u>↓</u>	<u>Dissolved Lead</u>
<u>VP 5</u>	<u>1</u> " "	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>Tetraethyl Lead</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP - 6 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed: 0 gal.  
 Total Depth: 14.72 ft. Thickness: 0.65 ft. (product/water):  
 Depth to Water: 11.35 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Not sampled due to SPT

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP-7 / MW-3 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed: 0  
 Total Depth: 17.42 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 10.57 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

6.85 xVF .17 = 1.16 x3 (case volume) = Estimated Purge Volume: 3.5 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1240 Weather Conditions: Sunny  
 Sample Time/Date: 1300 / Water Color: Clear Odor: YES  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1244</u>	<u>1.2</u>	<u>6.77</u>	<u>281</u>	<u>14.9</u>		
<u>1248</u>	<u>2.4</u>	<u>6.72</u>	<u>276</u>	<u>14.6</u>		
<u>1252</u>	<u>3.5</u>	<u>6.69</u>	<u>272</u>	<u>14.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VP-7</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>NZ</u>	<u>TPH-G/BTEX/MPBE</u>
<u>VP-7</u>	<u>1 Amber 2</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH (D) R w/SG</u>
<u>VP-7</u>	<u>1 500ML PL.</u>	<u>↓</u>	<u>NP</u>	<u>↓</u>	<u>Disc. Lead</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP - 8 / MW - 7 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 16.76 ft. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.  
 Depth to Water: 12.78 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

3.99 xVF 1.17 = 1.67 x3 (case volume) = Estimated Purge Volume: 2 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1220 Weather Conditions: Sunny  
 Sample Time/Date: 1230 / Water Color: gray Odor: slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1222</u>	<u>1</u>	<u>6.77</u>	<u>301</u>	<u>14.9</u>		
<u>1224</u>	<u>2</u>	<u>6.72</u>	<u>291</u>	<u>14.7</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VP - 8</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>NC</u>	<u>TPH-G/BTEX/MTBE</u>
<u>VP 8</u>	<u>1 Amber L</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(CD) &amp; W/S6</u>
<u>VP 8</u>	<u>1 500 mL Pl.</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>Diss. Lead</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: VP-9 Well Condition: ok  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 13.50 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 11.90 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

1.6 xVF .17 = .27 x3 (case volume) = Estimated Purge Volume: .8 gal.

**Purge Equipment:** Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1630 Weather Conditions: Sunny  
 Sample Time/Date: 1640 / Water Color: dark orange Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1635</u>	<u>.8</u>	<u>6.86</u>	<u>301</u>	<u>14.6</u>		
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>VP-9</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LL</u>	<u>TPH-G/BTEX/MTBE</u>
<u>VP 9</u>	<u>1 Amber L</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(D) + W/S6</u>
<u>VP 9</u>	<u>1 500 mL Pl.</u>	<u>↓</u>	<u>WF</u>	<u>↓</u>	<u>Diss. Lead</u>
_____	_____	_____	_____	_____	_____

COMMENTS: only 300 ml obtained for diss. lead  
Dark orange pelagic interferences

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: MW-4 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 17.50 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water: 11.98 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

5.52 xVF .17 = .93 x3 (case volume) = Estimated Purge Volume: 3 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1430 Weather Conditions: Sunny  
 Sample Time/Date: 1445 / Water Color: clear Odor: YES  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? NO If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1433</u>	<u>1</u>	<u>6.79</u>	<u>356</u>	<u>14.7</u>		
<u>1436</u>	<u>2</u>	<u>6.76</u>	<u>349</u>	<u>14.4</u>		
<u>1439</u>	<u>3</u>	<u>6.77</u>	<u>342</u>	<u>14.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>NC</u>	<u>TPH-G/BTEX/MTBE</u>
<u>MW 4</u>	<u>2 Amber L</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(P) x W/56</u>
<u>MW 4</u>	<u>1 500 mL Pi.</u>	<u>↓</u>	<u>NP</u>	<u>↓</u>	<u>Diss. Lead</u>
<u>MW 4</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>Tetra Ethyl Lead</u>

COMMENTS: DVP 1 Sample taken (DUPLICATE not for TEL

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN Inc.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-07 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: MW - 6 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 28.32 ft. Thickness: .05 ft. (product/water): 0 gal.  
 Depth to Water: 20.64 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	<del>x voa vial</del>	YES	HCL	<del> </del>	TPH-G/BTEX/MTBE

COMMENTS: Not sampled due to SPT

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-18-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: MW-9 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 27.70 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 20.88 ft.  
 Volume 3/4"= 0.02 1"= 0.04 2"= 0.17 3"= 0.38  
 Factor (VF) 4"= 0.66 5"= 1.02 6"= 1.50 12"= 5.80  
6.82 xVF .17 = 1.1 x3 (case volume) = Estimated Purge Volume: 3 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 930 Weather Conditions: cloudy  
 Sample Time/Date: 945 / 1 Water Color: gray Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>933</u>	<u>1</u>	<u>7.19</u>	<u>312</u>	<u>14.5</u>		
<u>936</u>	<u>2</u>	<u>7.13</u>	<u>309</u>	<u>14.4</u>		
<u>939</u>	<u>3</u>	<u>7.12</u>	<u>307</u>	<u>14.4</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-9</u>	<u>3 x vial</u>	<u>YES</u>	<u>HCL</u>	<u>LL</u>	<u>TPH-G/BTEX/MTBE</u>
<u>MW 9</u>	<u>1 water 2</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(D) x W/S6</u>
<u>MW 9</u>	<u>1500ml Pl.</u>	<u>↓</u>	<u>NP</u>	<u>↓</u>	<u>Diss. Lead</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: MW-10 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 29.15 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water: 13.59 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

15.56 xVF x17 = 2.5 x3 (case volume) = Estimated Purge Volume: 7.5 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1745 Weather Conditions: Sunny  
 Sample Time/Date: 1810 / Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1752</u>	<u>2.5</u>	<u>6.89</u>	<u>289</u>	<u>14.6</u>		
<u>1759</u>	<u>5</u>	<u>6.82</u>	<u>293</u>	<u>14.5</u>		
<u>1806</u>	<u>7.5</u>	<u>6.81</u>	<u>299</u>	<u>14.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LL</u>	<u>TPH-G/BTEX/MPDE</u>
<u>MW 10</u>	<u>1 Amber 2</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(D) + W/S6</u>
<u>MW 10</u>	<u>1 500ml Pi.</u>	<u>↓</u>	<u>NP</u>		<u>Diss. Lead</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: MW-11 Well Condition: NO BOLTS  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed  
 Total Depth: 17.30 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water: 11.43 ft.  

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

5.87 x VF .17 = 1 x3 (case volume) = Estimated Purge Volume: 3 gal.

Purge Equipment: Disposable Bailer ✓ Sampling Equipment: Disposable Bailer ✓  
 Stainless Steel Bailer \_\_\_\_\_ Pressure Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_ Discrete Bailer \_\_\_\_\_  
 Suction Pump \_\_\_\_\_ Other: \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1400 Weather Conditions: Sunny  
 Sample Time/Date: 1415 / Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1403</u>	<u>1</u>	<u>7.06</u>	<u>376</u>	<u>14.8</u>		
<u>1406</u>	<u>2</u>	<u>7.02</u>	<u>374</u>	<u>14.6</u>		
<u>1409</u>	<u>3</u>	<u>7.01</u>	<u>370</u>	<u>14.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>NC</u>	<u>TPH-G/BTEX/LEAD</u>
<u>MW 11</u>	<u>1 Amber L</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPHCO/x w/36</u>
<u>MW 11</u>	<u>1 500 mL PL</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>Diss. lead</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-18-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: DB1/MW-12 Well Condition: OK  
 Well Diameter: 2 in. Hydrocarbon Amount Bailed: 0 gal.  
 Total Depth: 16.28 ft. Thickness: 0 ft. (product/water):  
 Depth to Water: 12.22 ft.  

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

4.06 xVF 1.17 = 1.7 x3 (case volume) = Estimated Purge Volume: 2 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 9:00 Weather Conditions: Sunny  
 Sample Time/Date: 9:10 / Water Color: gray Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>9:03</u>	<u>1</u>	<u>6.87</u>	<u>346</u>	<u>14.6</u>		
<u>9:06</u>	<u>2</u>	<u>6.81</u>	<u>339</u>	<u>14.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>DB1 MW-12</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>NC</u>	<u>TPH-G/BTEX/MEBE</u>
	<u>1 Amber 2</u>				<u>TPH (D) - W/S6</u>
	<u>7 VOA's</u>				<u>VOC'S EPA 8260B</u>
					<u>SVOC'S EPA 8270C</u>
					<u>7 Oxy EAB + EDZ</u>

COMMENTS: Not sampled for dissolved lead, TEL lead, or PCRA Metals due to insufficient water

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID DB-2 / MW-13  
 Well Diameter 2 in.  
 Total Depth 19.90 ft.  
 Depth to Water 19.31 ft.

Well Condition: OK  
 Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:** Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:** Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL		TPH-G/BTEX/MTBE

COMMENTS: Insufficient water to sample

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577  
 Site Address: 631 Queen Anne North  
 City: Seattle, WA

Job Number: 386765  
 Event Date: 10/17/02 - 10/18/02 (inclusive)  
 Sampler: BWN

Well ID: DB-6/mw-14

Well Condition: \_\_\_\_\_

Well Diameter: \_\_\_\_\_ in.

Total Depth: \_\_\_\_\_ ft.

Depth to Water: \_\_\_\_\_ ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:**

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

**LABORATORY INFORMATION**

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577  
 Site Address: 631 Queen Anne North  
 City: Seattle, WA

Job Number: 386765  
 Event Date: 10/17/02 - 10/18/02 (inclusive)  
 Sampler: BWN

Well ID DB-8/MW-15

Well Condition: \_\_\_\_\_

Well Diameter \_\_\_\_\_ in.  
 Total Depth \_\_\_\_\_ ft.  
 Depth to Water \_\_\_\_\_ ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

\_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
_____
_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577  
 Site Address: 631 Queen Anne North  
 City: Seattle, WA

Job Number: 386765  
 Event Date: 10/17/02-10/18/02 (inclusive)  
 Sampler: BWN

Well ID DB-9/MW-16 Well Condition: \_\_\_\_\_  
 Well Diameter \_\_\_\_\_ in.  
 Total Depth \_\_\_\_\_ ft.  
 Depth to Water \_\_\_\_\_ ft.  
 \_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to _____ ft
Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____ _____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

**COMMENTS:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10/17/02 - 10/18/02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: DB-10/MW-17 Well Condition: \_\_\_\_\_  
 Well Diameter: \_\_\_\_\_ in.  
 Total Depth: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 \_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

**COMMENTS:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: PW - 2 Well Condition: Inside gate  
 Well Diameter: 8 in. Hydrocarbon Amount Bailed  
 Total Depth: 21.40 ft. Thickness: Ø ft. (product/water): Ø gal.  
 Depth to Water: 14.44 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

6.96 xVF 1.5 = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1600 Weather Conditions: Sunny  
 Sample Time/Date: 1615 / Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW - 2</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LL</u>	<u>TPH-G/BTEX/PAHs</u>
<u>RW 2</u>	<u>1 500mL PI.</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(CD) &amp; w/SG</u>
<u>RW 2</u>	<u>↓</u>	<u>↓</u>	<u>NP</u>	<u>↓</u>	<u>Diss. Lead</u>

COMMENTS: Due to inaccessible location well was not purged  
Inside gated fence within reaching distance!

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: \_\_\_\_\_ (inclusive)  
 City: Seattle, WA Sampler: \_\_\_\_\_

Well ID: RW-3 Well Condition: UTL  
 Well Diameter: \_\_\_\_\_ in.  
 Total Depth: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 \_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity ( $\mu$ mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: Unable to locate

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: RW - 4 Well Condition: OK  
 Well Diameter: 8 in. Hydrocarbon: # Amount Bailed: 10 gal.  
 Total Depth: 32.78 ft. Thickness: \_\_\_\_\_ ft. (product/water): \_\_\_\_\_ gal.  
 Depth to Water: 19.29 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.49 xVF 1.5 = 20 x3 (case volume) = Estimated Purge Volume: 60 gal.

Purge Equipment: Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump ✓  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1700 Weather Conditions: Sunny  
 Sample Time/Date: 1735 / Water Color: gray Odor: yes  
 Purging Flow Rate: 2 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1710</u>	<u>20</u>	<u>7.04</u>	<u>376</u>	<u>14.9</u>		
<u>1726</u>	<u>40</u>	<u>7.09</u>	<u>322</u>	<u>14.5</u>		
<u>1730</u>	<u>60</u>	<u>6.92</u>	<u>318</u>	<u>14.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW - 4</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LL</u>	<u>TPH-G/BTEX/MTBE</u>
<u>RW 4</u>	<u>7 Amber Z</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(LD) x w/SG</u>
<u>RW 4</u>	<u>1500ml Al.</u>	<u>↓</u>	<u>NP</u>	<u>↓</u>	<u>Diss-Lead</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10-17-02 (inclusive)  
 City: Seattle, WA Sampler: BWN

Well ID: RW-5 Well Condition: OK  
 Well Diameter: 8 in. Hydrocarbon Amount Bailed: 0 gal.  
 Total Depth: 14.25 ft. Thickness: 0 ft. (product/water): 0 gal.  
 Depth to Water: 12.63 ft.  
 Volume Factor (VF) table:  

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

1.62 xVF 1.5 = 2.43 x3 (case volume) = Estimated Purge Volume: 7 gal.

Purge Equipment: Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Start Time (purge): 1520 Weather Conditions: Sunny  
 Sample Time/Date: 1550 / Water Color: Clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1527</u>	<u>2.3</u>	<u>6.88</u>	<u>346</u>	<u>14.5</u>		
<u>1534</u>	<u>4.6</u>	<u>6.87</u>	<u>340</u>	<u>14.4</u>		
<u>1541</u>	<u>7</u>	<u>6.79</u>	<u>332</u>	<u>14.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-5</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LL</u>	<u>TPH-G/BTEX/MTBE</u>
<u>RW 5</u>	<u>7</u> Amber L	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>TPH(D) x w/36</u>
<u>RW 5</u>	<u>1</u> 500mL PL.	<u>↓</u>	<u>wt</u>	<u>↓</u>	<u>Dissolved Lead</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577 Job Number: 386765  
 Site Address: 631 Queen Anne North Event Date: 10/17/02 - 10/18/02 (inclusive)  
 City: Seattle, WA Sampler: BWR

Well ID: MP-1 Well Condition: Unable to open  
 Well Diameter: \_\_\_\_\_ in.  
 Total Depth: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 \_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
_____

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
-	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

COMMENTS: PVC glued on cap

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #211577  
 Site Address: 631 Queen Anne North  
 City: Seattle, WA

Job Number: 386765  
 Event Date: 10/17/02 - 10/18/02 (inclusive)  
 Sampler: BION

Well ID: MP-2 Well Condition: UTL  
 Well Diameter: \_\_\_\_\_ in.  
 Total Depth: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 \_\_\_\_\_ xVF \_\_\_\_\_ = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
	x voa vial	YES	HCL	NORTH CREEK	TPH-G(8015)/BTEX/MTBE(8021)

**COMMENTS:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





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 (509) 924-9200 FAX 924-9290  
 (503) 906-9200 FAX 906-9210  
 (541) 383-9310 FAX 382-7588

# CHAIN OF CUSTODY REPORT

Work Order #: **B200474**

CLIENT: **Chevron 21-1577 Job 386765**  
 REPORT TO: **Deanna Harding**  
 ADDRESS: **GR Inc. 6747 Sierra Ct. Ste. J Dublin, CA 94568**  
 PHONE: **925-551-7079** FAX: **925-551-7899**

INVOICE TO:

P.O. NUMBER:

### TURNAROUND REQUEST in Business Days\*

Organic & Inorganic Analyses  
 10  7  5  4  3  2  1  <1

STD. Petroleum Hydrocarbon Analyses  
 5  4  3  2  1  <1

STD. Please Specify  
 OTHER \_\_\_\_\_

\*Turnaround Requests less than standard may incur Rush Charges.

PROJECT NAME: **331 Guion Ave N. Seattle, WA**  
 PROJECT NUMBER: **386765**  
 SAMPLED BY: **Ben Newton**

### REQUESTED ANALYSES

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TPHC/ATEX	TPHC(X)	Dissolved Lead	VOC'S EPA 8260B	SVOC'S EPA 8270C	PCRA Metals	70ry EDXEDC	Tetraethyl Lead
1. TB LB	10-17-02 / -	X							
2. OB1 / MW 12	10-18-02 / 910	X	X	X	X	X		X	
3. VP 1	10-17-02 1510	X	X	X				X	
4. <del>VP 1</del> DUP 1	↓ -	X	X	X					
5. VP 5 (MW 5)	10-17-02 / 1210	X	X	X				X	
6. VP 7	1300	X	X	X				(X)	
7. VP 8	1230	X	X	X					
8. VP 9	1640	X	X	X					
9. RW 2	1615	X	X	X					
10. RW 4	1735	X	X	X					
11. RW 5	1550	X	X	X					
12. MW 4	↓ 1445	X	X	X				(X)	X
13. MW 9	10-18-02 / 945	X	X	X					
14. MW 10	10-17-02 1810	X	X	X					
15. MW 11	10-17-02 1415	X	X	X					

MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA W/ ID
W	1	* Please filter	-01
	11	for dissolved	-02
	6	lead, TEL	-03
	5	Lead, and	-04
	6	PCRA Metals	-05
	5	Ben Newton	-06
	5		-07
	5	* Please print	-08
	5	70ry EDXEDC	-09
	5	samples on hold	-10
	5	will select analyses	-11
	6	based on TPHC	-12
	5	Results of	-13
	5	↓ Delta Environmental	-14
	5	Peter Catterall	-15

Revised Chain of Custody

RELINQUISHED BY: **Ben Newton** FIRM: **GR Inc**  
 PRINT NAME: DATE: **10/18/02** TIME: **1520**  
 RELINQUISHED BY: FIRM:  
 PRINT NAME: FIRM:  
 ADDITIONAL REMARKS: **(X) ANALYSIS ADDED TO COC by PCATTERALL DELTA ENV ON 10-31-02 - ANALYZE by EPA 8260B FOR ALL ANALYTES w/o**

RECEIVED BY: **BRADY TONTZ** FIRM: **NCA** DATE: **10/18/02** TIME: **1520**  
 RECEIVED BY: FIRM:  
 PRINT NAME: FIRM:  
 DATE: TIME:

TEMP: **5-9** PAGE OF

10/31/2002 15:54 FAX 425 450 8837 DELTA ENVILK

P.02 98% 425 450 8837 OCT-31-2002 15:51



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RECORDED  
REF

NOV 12 2002

ENVIRONMENTAL  
SCIENCE & TECHNOLOGY

06 November 2002

Deanna Harding  
Gettler-Ryan Inc. - Dublin  
6747 Sierra Ct, Suite G  
Dublin, CA/USA 94568  
RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 10/18/02 15:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite  
Project Manager



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## CASE NARRATIVE for B2J0474

Client: Gettler-Ryan Inc.  
Project Manager: Deanna Harding  
Project Name: Chevron #21-1577  
Project Number: 386765

### 1.0 DESCRIPTION OF CASE

Fifteen water samples were received in a single shipment as documented on the associated chain-of-custody. The scheduled analyses for these samples included: Gasoline Hydrocarbons and BTEX by NWTPH-Gx/EPA 8021B, Diesel Range Hydrocarbons by NWTPH-Dx, Dissolved Lead by EPA 6020, Volatile Organic Compounds and Oxygenates by EPA 8260B, Semivolatile Organic Compounds by EPA 8270C, and Organic Lead by DHS LUFT.

### 2.0 COMMENTS ON SAMPLE RECEIPT

The samples were received in the Bothell laboratory on October 18, 2002. The cooler temperature was documented at 5.9 degrees C. upon receipt in the laboratory. All sample containers were received in good condition.

### 3.0 COMMENTS ON PREPARATION AND ANALYSIS

#### *Gasoline Hydrocarbons and BTEX by NWTPH-Gx/EPA 8021*

No anomalies or discrepancies were associated with this analysis other than those already qualified in the data. All quality control measures were within acceptable ranges.

#### *Diesel Range Hydrocarbons by NWTPH-Dx*

No anomalies or discrepancies were associated with this analysis other than those already qualified in the data. All quality control measures were within acceptable ranges.

#### *Dissolved Lead by EPA 6020*

No anomalies or discrepancies were associated with this analysis other than those already qualified in the data. All quality control measures were within acceptable ranges.

#### *Volatile Organic Compounds and Oxygenates by EPA 8260B*

No anomalies or discrepancies were associated with this analysis. All quality control measures were within acceptable ranges.

#### *Semivolatile Organic Compounds by EPA 8270C*

Sample DB1/MW12 had low surrogate recovery for the acid surrogates 2-FP and 2,4,6-TBP. The sample was re-analyzed with the same results occurring. We did not receive any extra sample volume for re-extraction. The results for this sample could be biased low.




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*Organic Lead by DHS LUFT*

Since we do not analyze for organic or tetraethyl lead in our laboratory samples VP1, VP5 (MW5), and MW4 were sent to a subcontract laboratory for the analysis. Calscience Environmental Laboratories, Inc. analyzed the samples for organic lead. Their results are included with this report.

"I certify that this data package is in compliance with the Contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

  
\_\_\_\_\_  
Jeanne Garthwaite  
Project Manager  
North Creek Analytical



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

**Reported:**  
 11/06/02 14:24

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB LB	B2J0474-01	Water	10/17/02 12:00	10/18/02 15:20
DB1/MW12	B2J0474-02	Water	10/18/02 09:10	10/18/02 15:20
VP 1	B2J0474-03	Water	10/17/02 15:10	10/18/02 15:20
DUP 1	B2J0474-04	Water	10/17/02 15:10	10/18/02 15:20
VP 5(MW 5)	B2J0474-05	Water	10/17/02 12:10	10/18/02 15:20
VP 7	B2J0474-06	Water	10/17/02 13:00	10/18/02 15:20
VP 8	B2J0474-07	Water	10/17/02 12:30	10/18/02 15:20
VP 9	B2J0474-08	Water	10/17/02 16:40	10/18/02 15:20
RW 2	B2J0474-09	Water	10/17/02 16:15	10/18/02 15:20
RW 4	B2J0474-10	Water	10/17/02 17:35	10/18/02 15:20
RW 5	B2J0474-11	Water	10/17/02 15:50	10/18/02 15:20
MW 4	B2J0474-12	Water	10/17/02 14:45	10/18/02 15:20
MW 9	B2J0474-13	Water	10/18/02 09:45	10/18/02 15:20
MW 10	B2J0474-14	Water	10/17/02 18:10	10/18/02 15:20
MW 11	B2J0474-15	Water	10/17/02 14:15	10/18/02 15:20

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**TB LB (B2J0474-01) Water** Sampled: 10/17/02 12:00 Received: 10/18/02 15:20

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.5 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	85.2 %	62-120			"	"	"	"	

**DB1/MW12 (B2J0474-02) Water** Sampled: 10/18/02 09:10 Received: 10/18/02 15:20

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
<b>Benzene</b>	<b>0.516</b>	0.500	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.869</b>	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.9 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	89.8 %	62-120			"	"	"	"	

**VP 1 (B2J0474-03) Water** Sampled: 10/17/02 15:10 Received: 10/18/02 15:20

Gasoline Range Hydrocarbons	27300	5000	ug/l	100	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	170	50.0	"	"	"	"	"	"	
Toluene	756	50.0	"	"	"	"	"	"	
Ethylbenzene	334	50.0	"	"	"	"	"	"	
Xylenes (total)	4820	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.1 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	90.2 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>DUP 1 (B2J0474-04) Water</b> Sampled: 10/17/02 15:10 Received: 10/18/02 15:20									
Gasoline Range Hydrocarbons	92400	5000	ug/l	100	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Toluene	9980	50.0	"	"	"	"	"	"	
Ethylbenzene	2090	50.0	"	"	"	"	"	"	
Xylenes (total)	12200	100	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.6 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	89.2 %	62-120			"	"	"	"	
<b>DUP 1 (B2J0474-04RE1) Water</b> Sampled: 10/17/02 15:10 Received: 10/18/02 15:20									
Benzene	12400	125	ug/l	250	2J24027	10/24/02	10/24/02	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	82.7 %	62-120			"	"	"	"	
<b>VP 5(MW 5) (B2J0474-05) Water</b> Sampled: 10/17/02 12:10 Received: 10/18/02 15:20									
Gasoline Range Hydrocarbons	15900	2500	ug/l	50	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	318	25.0	"	"	"	"	"	"	
Toluene	49.3	25.0	"	"	"	"	"	"	
Ethylbenzene	880	25.0	"	"	"	"	"	"	
Xylenes (total)	1870	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.6 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	89.6 %	62-120			"	"	"	"	
<b>VP 7 (B2J0474-06) Water</b> Sampled: 10/17/02 13:00 Received: 10/18/02 15:20									
Gasoline Range Hydrocarbons	71600	10000	ug/l	200	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	11100	100	"	"	"	"	"	"	
Toluene	5880	100	"	"	"	"	"	"	
Ethylbenzene	1940	100	"	"	"	"	"	"	
Xylenes (total)	10800	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.1 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	89.0 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*  
 Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>VP 8 (B2J0474-07) Water Sampled: 10/17/02 12:30 Received: 10/18/02 15:20</b>									
Gasoline Range Hydrocarbons	552	50.0	ug/l	1	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	9.75	0.500	"	"	"	"	"	"	
Toluene	1.45	0.500	"	"	"	"	"	"	
Ethylbenzene	4.25	0.500	"	"	"	"	"	"	
Xylenes (total)	5.73	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	116 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	92.7 %	62-120			"	"	"	"	
<b>VP 9 (B2J0474-08) Water Sampled: 10/17/02 16:40 Received: 10/18/02 15:20</b>									
Gasoline Range Hydrocarbons	1910	250	ug/l	5	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	11.3	2.50	"	"	"	"	"	"	
Toluene	2.62	2.50	"	"	"	"	"	"	1-06
Ethylbenzene	8.86	2.50	"	"	"	"	"	"	
Xylenes (total)	14.7	5.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	91.0 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	88.3 %	62-120			"	"	"	"	
<b>RW 2 (B2J0474-09) Water Sampled: 10/17/02 16:15 Received: 10/18/02 15:20</b>									
Gasoline Range Hydrocarbons	1380	500	ug/l	10	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	90.5	5.00	"	"	"	"	"	"	
Toluene	8.05	5.00	"	"	"	"	"	"	
Ethylbenzene	29.2	5.00	"	"	"	"	"	"	
Xylenes (total)	31.5	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	87.5 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	88.8 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**





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Gettler-Ryan Inc. - Dublin Project: Chevron #21-1577  
 6747 Sierra Ct, Suite G Project Number: 386765 Reported: 11/06/02 14:24  
 Dublin CA/USA, 94568 Project Manager: Deanna Harding

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>RW 4 (B2J0474-10) Water</b> Sampled: 10/17/02 17:35 Received: 10/18/02 15:20									
Gasoline Range Hydrocarbons	3160	250	ug/l	5	2J23007	10/23/02	10/24/02	NWTPH-Gx/8021B	
Benzene	59.8	2.50	"	"	"	"	"	"	
Toluene	2.50	2.50	"	"	"	"	"	"	
Ethylbenzene	40.4	2.50	"	"	"	"	"	"	
Xylenes (total)	15.6	5.00	"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	129 %	57-125			"	"	"	"	Q-30
Surrogate: 4-BFB (PID)	93.5 %	62-120			"	"	"	"	
<b>RW 5 (B2J0474-11) Water</b> Sampled: 10/17/02 15:50 Received: 10/18/02 15:20									
Gasoline Range Hydrocarbons	3370	2500	ug/l	50	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	696	25.0	"	"	"	"	"	"	
Toluene	67.2	25.0	"	"	"	"	"	"	
Ethylbenzene	63.0	25.0	"	"	"	"	"	"	
Xylenes (total)	408	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	88.3 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	87.3 %	62-120			"	"	"	"	
<b>MW 4 (B2J0474-12) Water</b> Sampled: 10/17/02 14:45 Received: 10/18/02 15:20									
Gasoline Range Hydrocarbons	110000	10000	ug/l	200	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	14500	100	"	"	"	"	"	"	
Toluene	11600	100	"	"	"	"	"	"	
Ethylbenzene	2630	100	"	"	"	"	"	"	
Xylenes (total)	15200	200	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	84.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	88.3 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 9 (B2J0474-13) Water    Sampled: 10/18/02 09:45    Received: 10/18/02 15:20</b>									
Gasoline Range Hydrocarbons	6380	500	ug/l	10	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	493	5.00	"	"	"	"	"	"	
Toluene	13.0	5.00	"	"	"	"	"	"	
Ethylbenzene	230	5.00	"	"	"	"	"	"	
Xylenes (total)	107	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	106 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	90.0 %	62-120			"	"	"	"	
<b>MW 10 (B2J0474-14) Water    Sampled: 10/17/02 18:10    Received: 10/18/02 15:20</b>									
Gasoline Range Hydrocarbons	490	50.0	ug/l	1	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	3.42	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	1.34	0.500	"	"	"	"	"	"	1-06
Xylenes (total)	5.00	1.00	"	"	"	"	"	"	1-06
Surrogate: 4-BFB (FID)	95.2 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	90.6 %	62-120			"	"	"	"	
<b>MW 11 (B2J0474-15) Water    Sampled: 10/17/02 14:15    Received: 10/18/02 15:20</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2J23007	10/23/02	10/23/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	86.5 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	89.6 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>DB1/MW12 (B2J0474-02) Water</b> Sampled: 10/18/02 09:10 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	2J22007	10/22/02	10/23/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	52.6 %	52-126			"	"	"	"	
Surrogate: Octacosane	66.2 %	53-122			"	"	"	"	
<b>VP 1 (B2J0474-03) Water</b> Sampled: 10/17/02 15:10 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	7.50	0.500	mg/l	2	2J22007	10/22/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.598	0.500	"	1	"	"	10/23/02	"	D-10
Surrogate: 2-FBP	54.1 %	52-126			"	"	10/24/02	"	
Surrogate: Octacosane	64.1 %	53-122			"	"	10/23/02	"	
<b>DUP 1 (B2J0474-04) Water</b> Sampled: 10/17/02 15:10 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	7.10	0.500	mg/l	2	2J22007	10/22/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	1	"	"	10/24/02	"	
Surrogate: 2-FBP	116 %	52-126			"	"	10/24/02	"	
Surrogate: Octacosane	83.0 %	53-122			"	"	10/24/02	"	
<b>VP 5(MW 5) (B2J0474-05) Water</b> Sampled: 10/17/02 12:10 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	3.90	0.250	mg/l	1	2J23011	10/23/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	72.5 %	52-126			"	"	"	"	
Surrogate: Octacosane	64.8 %	53-122			"	"	"	"	
<b>VP 7 (B2J0474-06) Water</b> Sampled: 10/17/02 13:00 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	5.16	0.250	mg/l	1	2J23011	10/23/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.510	0.500	"	"	"	"	"	"	D-10
Surrogate: 2-FBP	113 %	52-126			"	"	"	"	
Surrogate: Octacosane	111 %	53-122			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>VP 8 (B2J0474-07) Water Sampled: 10/17/02 12:30 Received: 10/18/02 15:20</b>										
Diesel Range Hydrocarbons	1.83	0.250		mg/l	1	2J23011	10/23/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500		"	"	"	"	"	"	
Surrogate: 2-FBP	88.7 %	52-126				"	"	"	"	
Surrogate: Octacosane	87.2 %	53-122				"	"	"	"	
<b>VP 9 (B2J0474-08) Water Sampled: 10/17/02 16:40 Received: 10/18/02 15:20</b>										
Diesel Range Hydrocarbons	13.2	1.25		mg/l	5	2J23011	10/23/02	10/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.786	0.500		"	1	"	"	10/24/02	"	D-10
Surrogate: 2-FBP	109 %	52-126				"	"	10/25/02	"	
Surrogate: Octacosane	98.3 %	53-122				"	"	10/24/02	"	
<b>RW 2 (B2J0474-09) Water Sampled: 10/17/02 16:15 Received: 10/18/02 15:20</b>										
Diesel Range Hydrocarbons	0.988	0.250		mg/l	1	2J23011	10/23/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500		"	"	"	"	"	"	
Surrogate: 2-FBP	80.2 %	52-126				"	"	"	"	
Surrogate: Octacosane	91.0 %	53-122				"	"	"	"	
<b>RW 4 (B2J0474-10) Water Sampled: 10/17/02 17:35 Received: 10/18/02 15:20</b>										
Diesel Range Hydrocarbons	8.93	1.25		mg/l	5	2J23011	10/23/02	10/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.939	0.500		"	1	"	"	10/24/02	"	
Surrogate: 2-FBP	77.4 %	52-126				"	"	10/25/02	"	
Surrogate: Octacosane	96.9 %	53-122				"	"	10/24/02	"	
<b>RW 5 (B2J0474-11) Water Sampled: 10/17/02 15:50 Received: 10/18/02 15:20</b>										
Diesel Range Hydrocarbons	84.9	5.62		mg/l	20	2J23011	10/23/02	10/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	3.65	0.562		"	1	"	"	10/24/02	"	
Surrogate: 2-FBP	%	52-126				"	"	10/25/02	"	S-04
Surrogate: Octacosane	107 %	53-122				"	"	10/24/02	"	

North Creek Analytical - Bothell

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 Jeanne Garthwaite, Project Manager



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 4 (B2J0474-12) Water</b> Sampled: 10/17/02 14:45 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	9.86	1.25	mg/l	5	2J23011	10/23/02	10/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.697	0.500	"	1	"	"	10/24/02	"	D-10
Surrogate: 2-FBP	127 %	52-126			"	"	10/25/02	"	S-04
Surrogate: Octacosane	109 %	53-122			"	"	10/24/02	"	
<b>MW 9 (B2J0474-13) Water</b> Sampled: 10/18/02 09:45 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	43.6	5.00	mg/l	20	2J23011	10/23/02	10/25/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	0.671	0.500	"	1	"	"	10/24/02	"	D-10
Surrogate: 2-FBP	%	52-126			"	"	10/25/02	"	S-01
Surrogate: Octacosane	105 %	53-122			"	"	10/24/02	"	
<b>MW 10 (B2J0474-14) Water</b> Sampled: 10/17/02 18:10 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	0.667	0.250	mg/l	1	2J23011	10/23/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	85.2 %	52-126			"	"	"	"	
Surrogate: Octacosane	86.6 %	53-122			"	"	"	"	
<b>MW 11 (B2J0474-15) Water</b> Sampled: 10/17/02 14:15 Received: 10/18/02 15:20									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	2J23011	10/23/02	10/24/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	76.5 %	52-126			"	"	"	"	
Surrogate: Octacosane	94.2 %	53-122			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:58

**Dissolved Metals by EPA 6000/7000 Series Methods**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP 1 (B2J0474-03) Water Sampled: 10/17/02 15:10 Received: 10/18/02 15:20									
Lead	0.0180	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
DUP 1 (B2J0474-04) Water Sampled: 10/17/02 15:10 Received: 10/18/02 15:20									
Lead	0.00961	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
VP 5(MW 5) (B2J0474-05) Water Sampled: 10/17/02 12:10 Received: 10/18/02 15:20									
Lead	0.00229	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
VP 7 (B2J0474-06) Water Sampled: 10/17/02 13:00 Received: 10/18/02 15:20									
Lead	0.00240	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
VP 8 (B2J0474-07) Water Sampled: 10/17/02 12:30 Received: 10/18/02 15:20									
Lead	0.00193	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
VP 9 (B2J0474-08) Water Sampled: 10/17/02 16:40 Received: 10/18/02 15:20									
Lead	ND	0.00100	mg/l	i	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
RW 2 (B2J0474-09) Water Sampled: 10/17/02 16:15 Received: 10/18/02 15:20									
Lead	0.00223	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
RW 4 (B2J0474-10) Water Sampled: 10/17/02 17:35 Received: 10/18/02 15:20									
Lead	0.00123	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30
RW 5 (B2J0474-11) Water Sampled: 10/17/02 15:50 Received: 10/18/02 15:20									
Lead	0.00391	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	Q-30

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:58
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**Dissolved Metals by EPA 6000/7000 Series Methods  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 4 (B2J0474-12) Water	Sampled: 10/17/02 14:45 Received: 10/18/02 15:20								Q-30
Lead	0.0107	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	
MW 9 (B2J0474-13) Water	Sampled: 10/18/02 09:45 Received: 10/18/02 15:20								Q-30
Lead	0.00266	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	
MW 10 (B2J0474-14) Water	Sampled: 10/17/02 18:10 Received: 10/18/02 15:20								Q-30
Lead	ND	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	
MW 11 (B2J0474-15) Water	Sampled: 10/17/02 14:15 Received: 10/18/02 15:20								Q-30
Lead	ND	0.00100	mg/l	1	2J18052	10/18/02	10/22/02	EPA 6020	

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
DB1/MW12 (B2J0474-02) Water Sampled: 10/18/02 09:10 Received: 10/18/02 15:20										
Acetone	ND	25.0		ug/l	1	2J20006	10/20/02	10/20/02	EPA 8260B	
Benzene	ND	1.00		"	"	"	"	"	"	
Bromobenzene	ND	1.00		"	"	"	"	"	"	
Bromochloromethane	ND	1.00		"	"	"	"	"	"	
Bromodichloromethane	ND	1.00		"	"	"	"	"	"	
Bromoform	ND	1.00		"	"	"	"	"	"	
Bromomethane	ND	2.00		"	"	"	"	"	"	
2-Butanone	ND	10.0		"	"	"	"	"	"	
n-Butylbenzene	ND	1.00		"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00		"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00		"	"	"	"	"	"	
Carbon disulfide	ND	1.00		"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00		"	"	"	"	"	"	
Chlorobenzene	ND	1.00		"	"	"	"	"	"	
Chloroethane	ND	1.00		"	"	"	"	"	"	
<b>Chloroform</b>	<b>1.68</b>	1.00		"	"	"	"	"	"	
Chloromethane	ND	5.00		"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00		"	"	"	"	"	"	
Dibromochloromethane	ND	1.00		"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00		"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00		"	"	"	"	"	"	
Dibromomethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00		"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00		"	"	"	"	"	"	
<b>cis-1,2-Dichloroethene</b>	<b>9.07</b>	1.00		"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00		"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00		"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00		"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00		"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>DB1/MW12 (B2J0474-02) Water</b> <b>Sampled: 10/18/02 09:10</b> <b>Received: 10/18/02 15:20</b>									
cis-1,3-Dichloropropene	ND	1.00	ug/l	1	2J20006	10/20/02	10/20/02	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.00	"	"	"	"	"	"	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	1.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
<b>Tetrachloroethene</b>	<b>9.58</b>	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>2.75</b>	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	93.5 %	77-122				"	"	"	
Surrogate: Toluene-d8	96.0 %	75-124				"	"	"	
Surrogate: 4-BFB	99.5 %	77-120				"	"	"	
Ethanol	ND	20.0	"	"	2J31035	10/31/02	10/31/02	"	
1,2-Dibromoethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
Diisopropyl ether	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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 Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Organic Compounds by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>DB1/MW12 (B2J0474-02) Water</b> Sampled: 10/18/02 09:10 Received: 10/18/02 15:20									
Ethyl tert-butyl ether	ND	1.00	ug/l	1	2J31035	10/31/02	10/31/02	"	
Methyl tert-butyl ether	ND	5.00	"	"	"	"	"	"	
tert-Amyl Methyl Ether	ND	1.00	"	"	"	"	"	"	
tert-Butyl Alcohol	ND	50.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	100 %	77-122			"	"	"	"	
Surrogate: Toluene-d8	100 %	75-124			"	"	"	"	
<b>VP 7 (B2J0474-06) Water</b> Sampled: 10/17/02 13:00 Received: 10/18/02 15:20									
Ethanol	ND	40.0	ug/l	2	2J31035	10/31/02	10/31/02	EPA 8260B	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
Diisopropyl ether	ND	2.00	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
tert-Amyl Methyl Ether	ND	2.00	"	"	"	"	"	"	
tert-Butyl Alcohol	ND	100	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	116 %	77-122			"	"	"	"	
Surrogate: Toluene-d8	104 %	75-124			"	"	"	"	
<b>MW 4 (B2J0474-12) Water</b> Sampled: 10/17/02 14:45 Received: 10/18/02 15:20									
Ethanol	ND	200	ug/l	10	2J31035	10/31/02	10/31/02	EPA 8260B	
1,2-Dibromoethane	ND	5.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.00	"	"	"	"	"	"	
Diisopropyl ether	ND	10.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
tert-Amyl Methyl Ether	ND	10.0	"	"	"	"	"	"	
tert-Butyl Alcohol	ND	500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	104 %	77-122			"	"	"	"	
Surrogate: Toluene-d8	110 %	75-124			"	"	"	"	

North Creek Analytical - Bothell

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Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DB1/MW12 (B2J0474-02) Water Sampled: 10/18/02 09:10 Received: 10/18/02 15:20									
Acenaphthene	ND	10.0	ug/l	1	2J21012	10/21/02	10/24/02	EPA 8270C	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Aniline	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzoic Acid	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	50.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"	
Carbazole	ND	10.0	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	10.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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DB1/MW12 (B2J0474-02) Water Sampled: 10/18/02 09:10 Received: 10/18/02 15:20

X

2,4-Dinitrophenol	ND	20.0	ug/l	1	2J21012	10/21/02	10/24/02	"	
2,4-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	10.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"	"	
Hexachloroethane	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Isophorone	ND	10.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10.0	"	"	"	"	"	"	
2-Methylphenol	ND	10.0	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10.0	"	"	"	"	"	"	
4-Nitroaniline	ND	10.0	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
2-Nitrophenol	ND	10.0	"	"	"	"	"	"	
4-Nitrophenol	ND	10.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	
Phenol	ND	10.0	"	"	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
Surrogate: 2-FP	15.7 %	27-124			"	"	"	"	
Surrogate: Phenol-d6	34.5 %	12-124			"	"	"	"	
Surrogate: 2,4,6-TBP	20.8 %	33-143			"	"	"	"	
Surrogate: Nitrobenzene-d5	73.3 %	35-119			"	"	"	"	
Surrogate: 2-FBP	84.1 %	44-124			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

**Reported:**  
 11/06/02 14:24

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
DB1/MW12 (B2J0474-02) Water <b>Sampled: 10/18/02 09:10 Received: 10/18/02 15:20</b>										
Surrogate: <i>p</i> -Terphenyl-d14	58.4 %	10-131				2J21012	10/21/02	10/24/02	"	X

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2J23007: Prepared 10/23/02 Using EPA 5030B (P/T)

**Blank (2J23007-BLK1)**

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	42.1		"	48.0		87.7	57-125			
Surrogate: 4-BFB (PID)	41.9		"	48.0		87.3	62-120			

**LCS (2J23007-BS1)**

Gasoline Range Hydrocarbons	464	50.0	ug/l	502		92.4	80-120			
Benzene	6.73	0.500	"	6.20		109	80-120			
Toluene	31.7	0.500	"	38.1		83.2	80-120			
Ethylbenzene	8.46	0.500	"	8.94		94.6	80-120			
Xylenes (total)	40.5	1.00	"	44.0		92.0	80-120			
Surrogate: 4-BFB (FID)	45.1		"	48.0		94.0	57-125			
Surrogate: 4-BFB (PID)	40.8		"	48.0		85.0	62-120			

**LCS Dup (2J23007-BSD1)**

Gasoline Range Hydrocarbons	461	50.0	ug/l	502		91.8	80-120	0.649	25	
Benzene	6.26	0.500	"	6.20		101	80-120	7.24	40	
Toluene	31.9	0.500	"	38.1		83.7	80-120	0.629	40	
Ethylbenzene	8.44	0.500	"	8.94		94.4	80-120	0.237	40	
Xylenes (total)	40.6	1.00	"	44.0		92.3	80-120	0.247	40	
Surrogate: 4-BFB (FID)	45.2		"	48.0		94.2	57-125			
Surrogate: 4-BFB (PID)	40.8		"	48.0		85.0	62-120			

**Matrix Spike (2J23007-MS1)**

Source: B2J0474-02

Gasoline Range Hydrocarbons	570	50.0	ug/l	502	ND	108	70-130			
Benzene	8.29	0.500	"	6.20	0.516	125	80-120			Q-02
Toluene	37.3	0.500	"	38.1	0.869	95.6	68-114			
Ethylbenzene	9.90	0.500	"	8.94	ND	109	80-120			
Xylenes (total)	47.6	1.00	"	44.0	ND	106	80-120			
Surrogate: 4-BFB (FID)	48.1		"	48.0		100	57-125			
Surrogate: 4-BFB (PID)	41.7		"	48.0		86.9	62-120			

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2J23007: Prepared 10/23/02 Using EPA 5030B (P/T)**

**Matrix Spike Dup (2J23007-MSD1)**

**Source: B2J0474-02**

Gasoline Range Hydrocarbons	563	50.0	ug/l	502	ND	106	70-130	1.24	25	
Benzene	8.51	0.500	"	6.20	0.516	129	80-120	2.62	40	Q-02
Toluene	38.7	0.500	"	38.1	0.869	99.3	68-114	3.68	40	
Ethylbenzene	10.3	0.500	"	8.94	ND	113	80-120	3.96	40	
Xylenes (total)	49.4	1.00	"	44.0	ND	110	80-120	3.71	40	
Surrogate: 4-BFB (FID)	46.9		"	48.0		97.7	57-125			
Surrogate: 4-BFB (PID)	41.9		"	48.0		87.3	62-120			

**Batch 2J24027: Prepared 10/24/02 Using EPA 5030B (P/T)**

**Blank (2J24027-BLK1)**

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	40.5		"	48.0		84.4	57-125			
Surrogate: 4-BFB (PID)	38.8		"	48.0		80.8	62-120			

**LCS (2J24027-BS1)**

Gasoline Range Hydrocarbons	492	50.0	ug/l	502		98.0	80-120			
Benzene	6.28	0.500	"	6.20		101	80-120			
Toluene	33.4	0.500	"	38.1		87.7	80-120			
Ethylbenzene	8.62	0.500	"	8.94		96.4	80-120			
Xylenes (total)	40.8	1.00	"	44.0		92.7	80-120			
Surrogate: 4-BFB (FID)	41.6		"	48.0		86.7	57-125			
Surrogate: 4-BFB (PID)	36.9		"	48.0		76.9	62-120			

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
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 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2J24027: Prepared 10/24/02 Using EPA 5030B (P/T)

**LCS Dup (2J24027-BSD1)**

Gasoline Range Hydrocarbons	473	50.0	ug/l	502		94.2	80-120	3.94	25	
Benzene	5.76	0.500	"	6.20		92.9	80-120	8.64	40	
Toluene	30.8	0.500	"	38.1		80.8	80-120	8.10	40	
Ethylbenzene	7.81	0.500	"	8.94		87.4	80-120	9.86	40	
Xylenes (total)	37.2	1.00	"	44.0		84.5	80-120	9.23	40	
Surrogate: 4-BFB (FID)	44.0		"	48.0		91.7	57-125			
Surrogate: 4-BFB (PID)	37.0		"	48.0		77.1	62-120			

**Matrix Spike (2J24027-MS1)**

Source: B2J0601-01

Gasoline Range Hydrocarbons	486	50.0	ug/l	502	ND	94.7	70-130			
Benzene	6.31	0.500	"	6.20	ND	102	80-120			
Toluene	33.2	0.500	"	38.1	ND	86.4	68-114			
Ethylbenzene	8.44	0.500	"	8.94	ND	92.8	80-120			
Xylenes (total)	40.3	1.00	"	44.0	ND	90.7	80-120			
Surrogate: 4-BFB (FID)	42.1		"	48.0		87.7	57-125			
Surrogate: 4-BFB (PID)	36.8		"	48.0		76.7	62-120			

**Matrix Spike Dup (2J24027-MSD1)**

Source: B2J0601-01

Gasoline Range Hydrocarbons	462	50.0	ug/l	502	ND	89.9	70-130	5.06	25	
Benzene	5.90	0.500	"	6.20	ND	95.2	80-120	6.72	40	
Toluene	31.2	0.500	"	38.1	ND	81.2	68-114	6.21	40	
Ethylbenzene	7.83	0.500	"	8.94	ND	86.0	80-120	7.50	40	
Xylenes (total)	37.6	1.00	"	44.0	ND	84.5	80-120	6.93	40	
Surrogate: 4-BFB (FID)	43.6		"	48.0		90.8	57-125			
Surrogate: 4-BFB (PID)	36.8		"	48.0		76.7	62-120			

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2J22007: Prepared 10/22/02 Using EPA 3520C**

**Blank (2J22007-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.269		"	0.320		84.1	52-126			
Surrogate: Octacosane	0.273		"	0.320		85.3	53-122			

**LCS (2J22007-BS1)**

Diesel Range Hydrocarbons	1.72	0.250	mg/l	2.00		86.0	60-122			
Surrogate: 2-FBP	0.276		"	0.320		86.2	52-126			

**LCS Dup (2J22007-BSD1)**

Diesel Range Hydrocarbons	1.71	0.250	mg/l	2.00		85.5	60-122	0.583	40	
Surrogate: 2-FBP	0.279		"	0.320		87.2	52-126			

**Batch 2J23011: Prepared 10/23/02 Using EPA 3520C**

**Blank (2J23011-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.253		"	0.320		79.1	52-126			
Surrogate: Octacosane	0.263		"	0.320		82.2	53-122			

**LCS (2J23011-BS1)**

Diesel Range Hydrocarbons	1.65	0.250	mg/l	2.00		82.5	60-122			
Surrogate: 2-FBP	0.272		"	0.320		85.0	52-126			

**LCS Dup (2J23011-BSD1)**

Diesel Range Hydrocarbons	1.66	0.250	mg/l	2.00		83.0	60-122	0.604	40	
Surrogate: 2-FBP	0.278		"	0.320		86.9	52-126			

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2J18052: Prepared 10/18/02 Using EPA 3005A</b>										
<b>Blank (2J18052-BLK1)</b>										
Lead	ND	0.00100	mg/l							
<b>LCS (2J18052-BS1)</b>										
Lead	0.200	0.00100	mg/l	0.200		100	80-120			
<b>LCS Dup (2J18052-BSD1)</b>										
Lead	0.205	0.00100	mg/l	0.200		102	80-120	2.47	20	
<b>Matrix Spike (2J18052-MS1) Source: B2J0474-03</b>										
Lead	0.119	0.00100	mg/l	0.100	0.0180	101	75-125			
<b>Matrix Spike Dup (2J18052-MSD1) Source: B2J0474-03</b>										
Lead	0.122	0.00100	mg/l	0.100	0.0180	104	75-125	2.49	20	

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2J20006: Prepared 10/20/02 Using EPA 5030B**

**Blank (2J20006-BLK1)**

Acetone	ND	25.0	ug/l
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	2.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	1.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	1.00	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
1,2-Dibromoethane	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	1.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2J20006: Prepared 10/20/02 Using EPA 5030B

Blank (2J20006-BLK1)

2,2-Dichloropropane	ND	1.00	ug/l							
1,1-Dichloropropene	ND	1.00	"							
cis-1,3-Dichloropropene	ND	1.00	"							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	1.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	1.00	"							
p-Isopropyltoluene	ND	1.00	"							
Methylene chloride	ND	5.00	"							
4-Methyl-2-pentanone	ND	10.0	"							
Naphthalene	ND	1.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
o-Xylene	ND	1.00	"							
Surrogate: 1,2-DCA-d4	37.1		"	40.0		92.8	77-122			
Surrogate: Toluene-d8	35.9		"	40.0		89.8	75-124			
Surrogate: 4-BFB	35.7		"	40.0		89.2	77-120			

North Creek Analytical - Bothell

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Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2J20006: Prepared 10/20/02 Using EPA 5030B**

**LCS (2J20006-BS1)**

Benzene	10.4	1.00	ug/l	10.0		104	80-120			
Chlorobenzene	10.3	1.00	"	10.0		103	77-120			
1,1-Dichloroethene	9.76	1.00	"	10.0		97.6	80-120			
Toluene	9.48	1.00	"	10.0		94.8	80-120			
Trichloroethene	10.2	1.00	"	10.0		102	80-120			
Surrogate: 1,2-DCA-d4	19.2		"	20.0		96.0	77-122			
Surrogate: Toluene-d8	19.2		"	20.0		96.0	75-124			
Surrogate: 4-BFB	19.9		"	20.0		99.5	77-120			

**LCS Dup (2J20006-BSD1)**

Benzene	10.1	1.00	ug/l	10.0		101	80-120	2.93	20	
Chlorobenzene	10.1	1.00	"	10.0		101	77-120	1.96	20	
1,1-Dichloroethene	9.05	1.00	"	10.0		90.5	80-120	7.55	20	
Toluene	9.18	1.00	"	10.0		91.8	80-120	3.22	20	
Trichloroethene	9.73	1.00	"	10.0		97.3	80-120	4.72	20	
Surrogate: 1,2-DCA-d4	19.1		"	20.0		95.5	77-122			
Surrogate: Toluene-d8	19.6		"	20.0		98.0	75-124			
Surrogate: 4-BFB	19.8		"	20.0		99.0	77-120			

**Batch 2J31035: Prepared 10/31/02 Using EPA 5030B**

**Blank (2J31035-BLK1)**

Ethanol	ND	20.0	ug/l							
1,2-Dibromoethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
Diisopropyl ether	ND	1.00	"							
Ethyl tert-butyl ether	ND	1.00	"							
Methyl tert-butyl ether	ND	5.00	"							
tert-Amyl Methyl Ether	ND	1.00	"							
tert-Butyl Alcohol	ND	50.0	"							
Surrogate: 1,2-DCA-d4	22.7		"	20.0		114	77-122			
Surrogate: Toluene-d8	19.9		"	20.0		99.5	75-124			

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2J31035: Prepared 10/31/02 Using EPA 5030B

**LCS (2J31035-BS1)**

Diisopropyl ether	9.81	1.00	ug/l	10.0		98.1	75-125			
Methyl tert-butyl ether	7.82	5.00	"	10.0		78.2	75-125			
tert-Butyl Alcohol	ND	50.0	"	50.0		92.8	75-125			
Surrogate: 1,2-DCA-d4	20.9		"	20.0		104	77-122			
Surrogate: Toluene-d8	20.6		"	20.0		103	75-124			

**LCS Dup (2J31035-BSD1)**

Diisopropyl ether	10.1	1.00	ug/l	10.0		101	75-125	2.91	25	
Methyl tert-butyl ether	8.86	5.00	"	10.0		88.6	75-125	12.5	25	
tert-Butyl Alcohol	56.1	50.0	"	50.0		112	75-125	18.9	25	
Surrogate: 1,2-DCA-d4	23.5		"	20.0		118	77-122			
Surrogate: Toluene-d8	20.4		"	20.0		102	75-124			

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2J21012: Prepared 10/21/02 Using EPA 3520C

**Blank (2J21012-BLK1)**

Acenaphthene	ND	10.0	ug/l
Acenaphthylene	ND	10.0	"
Aniline	ND	10.0	"
Anthracene	ND	10.0	"
Benzoic Acid	ND	20.0	"
Benzo (a) anthracene	ND	10.0	"
Benzo (b) fluoranthene	ND	10.0	"
Benzo (k) fluoranthene	ND	10.0	"
Benzo (ghi) perylene	ND	10.0	"
Benzo (a) pyrene	ND	10.0	"
Benzyl alcohol	ND	10.0	"
Bis(2-chloroethoxy)methane	ND	10.0	"
Bis(2-chloroethyl)ether	ND	10.0	"
Bis(2-chloroisopropyl)ether	ND	10.0	"
Bis(2-ethylhexyl)phthalate	ND	50.0	"
4-Bromophenyl phenyl ether	ND	10.0	"
Butyl benzyl phthalate	ND	10.0	"
Carbazole	ND	10.0	"
4-Chloroaniline	ND	10.0	"
2-Chloronaphthalene	ND	10.0	"
4-Chloro-3-methylphenol	ND	10.0	"
2-Chlorophenol	ND	10.0	"
4-Chlorophenyl phenyl ether	ND	10.0	"
Chrysene	ND	10.0	"
Dibenz (a,h) anthracene	ND	10.0	"
Dibenzofuran	ND	10.0	"
Di-n-butyl phthalate	ND	10.0	"
1,3-Dichlorobenzene	ND	10.0	"
1,4-Dichlorobenzene	ND	10.0	"
1,2-Dichlorobenzene	ND	10.0	"
3,3'-Dichlorobenzidine	ND	10.0	"
2,4-Dichlorophenol	ND	10.0	"
Diethyl phthalate	ND	10.0	"
2,4-Dimethylphenol	ND	10.0	"

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2J21012: Prepared 10/21/02 Using EPA 3520C**

**Blank (2J21012-BLK1)**

Dimethyl phthalate	ND	10.0	ug/l							
4,6-Dinitro-2-methylphenol	ND	10.0	"							
2,4-Dinitrophenol	ND	20.0	"							
2,4-Dinitrotoluene	ND	10.0	"							
2,6-Dinitrotoluene	ND	10.0	"							
Di-n-octyl phthalate	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Hexachlorobenzene	ND	10.0	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Isophorone	ND	10.0	"							
2-Methylnaphthalene	ND	10.0	"							
2-Methylphenol	ND	10.0	"							
3 & 4-Methylphenol	ND	10.0	"							
Naphthalene	ND	10.0	"							
2-Nitroaniline	ND	10.0	"							
3-Nitroaniline	ND	10.0	"							
4-Nitroaniline	ND	10.0	"							
Nitrobenzene	ND	10.0	"							
2-Nitrophenol	ND	10.0	"							
4-Nitrophenol	ND	10.0	"							
N-Nitrosodiphenylamine	ND	10.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
Pentachlorophenol	ND	10.0	"							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Pyrene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
2,4,5-Trichlorophenol	ND	10.0	"							
2,4,6-Trichlorophenol	ND	10.0	"							
Surrogate: 2-FP	19.7		"	50.0		39.4	27-124			

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**





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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: 386765 Project Manager: Deanna Harding	Reported: 11/06/02 14:24
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 2J21012: Prepared 10/21/02 Using EPA 3520C**

**Blank (2J21012-BLK1)**

Surrogate: Phenol-d6	26.4		ug/l	50.0		52.8	12-124			
Surrogate: 2,4,6-TBP	31.9		"	50.0		63.8	33-143			
Surrogate: Nitrobenzene-d5	42.0		"	50.0		84.0	35-119			
Surrogate: 2-FBP	44.7		"	50.0		89.4	44-124			
Surrogate: p-Terphenyl-d14	45.1		"	50.0		90.2	10-131			

**LCS (2J21012-BS1)**

Acenaphthene	107	10.0	ug/l	100		107	45-130			
4-Chloro-3-methylphenol	95.3	10.0	"	100		95.3	37-120			
2-Chlorophenol	86.8	10.0	"	100		86.8	38-120			
1,4-Dichlorobenzene	87.6	10.0	"	100		87.6	33-120			
2,4-Dinitrotoluene	99.2	10.0	"	100		99.2	52-120			
4-Nitrophenol	106	10.0	"	100		106	20-135			
N-Nitrosodi-n-propylamine	83.2	10.0	"	100		83.2	40-120			
Pentachlorophenol	91.0	10.0	"	100		91.0	31-133			
Phenol	55.3	10.0	"	100		55.3	20-120			
Pyrene	104	10.0	"	100		104	38-123			
1,2,4-Trichlorobenzene	85.9	10.0	"	100		85.9	28-120			
Surrogate: 2-FP	33.3		"	50.0		66.6	27-124			
Surrogate: Phenol-d6	36.1		"	50.0		72.2	12-124			
Surrogate: 2,4,6-TBP	43.2		"	50.0		86.4	33-143			
Surrogate: Nitrobenzene-d5	43.6		"	50.0		87.2	35-119			
Surrogate: 2-FBP	46.2		"	50.0		92.4	44-124			
Surrogate: p-Terphenyl-d14	42.4		"	50.0		84.8	10-131			

**LCS Dup (2J21012-BSD1)**

Acenaphthene	106	10.0	ug/l	100		106	45-130	0.939	49	
4-Chloro-3-methylphenol	102	10.0	"	100		102	37-120	6.79	49	
2-Chlorophenol	87.6	10.0	"	100		87.6	38-120	0.917	61	
1,4-Dichlorobenzene	83.9	10.0	"	100		83.9	33-120	4.31	26	
2,4-Dinitrotoluene	106	10.0	"	100		106	52-120	6.63	29	
4-Nitrophenol	107	10.0	"	100		107	20-135	0.939	37	
N-Nitrosodi-n-propylamine	78.7	10.0	"	100		78.7	40-120	5.56	36	
Pentachlorophenol	109	10.0	"	100		109	31-133	18.0	32	
Phenol	60.1	10.0	"	100		60.1	20-120	8.32	53	
Pyrene	95.9	10.0	"	100		95.9	38-123	8.10	50	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*  
 Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

Reported:  
 11/06/02 14:24

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2J21012: Prepared 10/21/02 Using EPA 3520C

**LCS Dup (2J21012-BSD1)**

1,2,4-Trichlorobenzene	89.6	10.0	ug/l	100		89.6	28-120	4.22	25	
Surrogate: 2-FP	36.9		"	50.0		73.8	27-124			
Surrogate: Phenol-d6	39.0		"	50.0		78.0	12-124			
Surrogate: 2,4,6-TBP	50.6		"	50.0		101	33-143			
Surrogate: Nitrobenzene-d5	45.0		"	50.0		90.0	35-119			
Surrogate: 2-FBP	41.3		"	50.0		82.6	44-124			
Surrogate: p-Terphenyl-d14	41.3		"	50.0		82.6	10-131			

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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 Environmental Laboratory Network



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: 386765  
 Project Manager: Deanna Harding

**Reported:**  
 11/06/02 14:24

**Notes and Definitions**

- D-10 The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- X See case narrative.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



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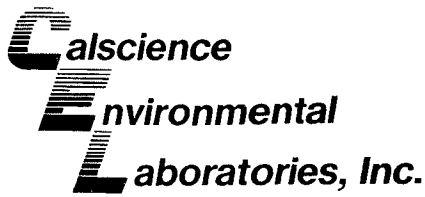
November 06, 2002

Deanna Harding  
Gettler-Ryan Inc.  
6747 Sierra Ct. Suite G  
Dublin, CA 94568

Project: Chevron #21-1577

The following is a cross reference of the sample identification for the samples that were subbed out to Calscience Environmental Laboratories, Inc.

<u>Gettler-Ryan Inc. #</u>	<u>NCA Lab #</u>	<u>Calscience Environmental #</u>
VP 1	B2J0474-03	B2J0474-03
VP 5 (MW 5)	B2J0474-05	B2J0474-05
MW 4	B2J0474-12	B2J0474-12



October 30, 2002

Jeanne Garthwaite  
North Creek Analytical  
11720 North Creek Parkway North, Ste 400  
Bothell, WA 98011-8223

Subject:           **Calscience Work Order No.:           02-10-1407**  
                          **Client Reference:                           B2J0474**

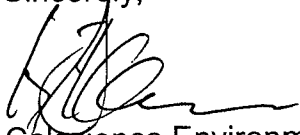
Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/23/02 and analyzed in accordance with the attached chain-of-custody (COC). Although the COC indicates tetraethyl lead for testing, organic lead was determined instead, with approval from the client.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

  
Calscience Environmental  
Laboratories, Inc.  
Robert Stearns  
Project Manager

  
\_\_\_\_\_  
Michael J. Crisostomo  
Quality Assurance Manager

**ANALYTICAL REPORT**

North Creek Analytical  
 11720 North Creek Parkway North, Ste 400  
 Bothell, WA 98011-8223

Date Received: 10/23/02  
 Work Order No: 02-10-1407  
 Preparation: DHS LUFT  
 Method: DHS LUFT

Project: B2J0474

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
B2J0474-03	02-10-1407-1	10/17/02	Aqueous	10/25/02	10/25/02	021025L05

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

B2J0474-05	02-10-1407-2	10/17/02	Aqueous	10/25/02	10/25/02	021025L05
------------	--------------	----------	---------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

B2J0474-12	02-10-1407-3	10/17/02	Aqueous	10/25/02	10/25/02	021025L05
------------	--------------	----------	---------	----------	----------	-----------

Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

Method Blank	099-10-019-9		N/A	Aqueous	10/25/02	10/25/02	021025L05
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Parameter	Result	RL	DF	Qual	Units
Organic Lead	ND	0.300	1		mg/L

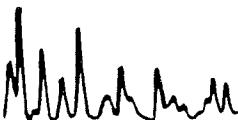
North Creek Analytical  
 11720 North Creek Parkway North, Ste 400  
 Bothell, WA 98011-8223

Date Received: 10/23/02  
 Work Order No: 02-10-1407  
 Preparation: DHS LUFT  
 Method: DHS LUFT

Project: B2J0474

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
B2J0474-03	Aqueous	FLAA	10/25/02	10/25/02	021025S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Organic Lead	79	83	50-130	5	0-20	



North Creek Analytical  
 11720 North Creek Parkway North, Ste 400  
 Bothell, WA 98011-8223

Date Received: 10/23/02  
 Work Order No: 02-10-1407  
 Preparation: DHS LUFT  
 Method: DHS LUFT

Project: B2J0474

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-10-019-9	Aqueous	FLAA	10/25/02	NONE	021025L05

Parameter	Conc Added	Conc Recovered	%Rec	%Rec CL	Qualifiers
Organic Lead	3.13	2.59	83	50-130	



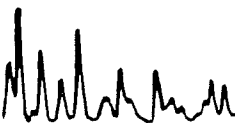


# GLOSSARY OF TERMS AND QUALIFIERS

Work Order Number: 02-10-1407

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<u>Qualifier</u>	<u>Definition</u>
ND	Not detected at indicated reporting limit.



***FORMER TEXACO SERVICE STATION***  
***Seattle, Washington***  
***(Site #211577)***

***MONITORING & SAMPLING***  
***EVENT OF NOVEMBER 14, 2002***

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Charon 211577  
 Address: 631 Queen Anne Ave. N.  
 City: Seattle, WA

Job#: 386765  
 Date: 11-14-02  
 Sampler: BWN

Well ID: MW-14  
 Well Diameter: 2 in.  
 Total Depth: 24.45 ft.  
 Depth to Water: 11.88 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø in.  
 Amount Bailed (product/water): Ø (gal.)  
 Volume Factor (VF):  
 2" = 0.17      3" = 0.38      4" = 0.66  
 6" = 1.50      12" = 5.80

12.57 x VF .17 = 2 x 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1130  
 Sampling Time: 1155  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? NO

Weather Conditions: pt. sunny  
 Water Color: tan      Odor: NO  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1136	2	7.41	351	13.4			
1142	4	7.36	346	13.2			
1148	6	7.31	341	13.1			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 14	6 x VDA VIAL	Y	HCL	NCA	TPH/BTEX/MTOE
MW 14	1 Amber L		NP		TPH (D) x W/S6
MW 14	1 500mL PI.				RCRA Metals
MW 14	1 500mL PI.				Dissolved Lead
MW 14	" "				Tetraethyl Lead
COMMENTS: MW					VOC's 8260b
MW 14	2 Amber L	Y	NP		SVOC'S EPA 8270c

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Charson 211577  
Address: 631 Queen Anne Ave. N.  
City: Seattle, WA

Job#: 384765  
Date: 11-14-02  
Sampler: BWN

Well ID: MW-15 Well Condition: OK  
Well Diameter: 2 in.  
Total Depth: 24.80 ft.  
Depth to Water: 9.44 ft.  
Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)  
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.56  
6" = 1.50 12" = 5.80  
15.36 x VF .17 = 2.5 X 10 (case volume) = Estimated Purge Volume: 25 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1000 Weather Conditions: pt. sunny  
Sampling Time: 1100 Water Color: lt. gray Odor: no  
Purging Flow Rate: \_\_\_\_\_ gpm Sediment Description: \_\_\_\_\_  
Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1010	5	7.09	404	13.6			
1020	10	7.04	396	13.6			
1030	15	6.97	392	13.4			
1040	20	6.92	386	13.2			
1050	25	6.86	374	13.1			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 15	6 x VOA VIAL	Y	HCL	NCA	TPH <sub>6</sub> /BTEX/MTBE 704 EPB+EDC
MW 15	1 Amber L		↓		TPH (D) x w/SG
MW 15	1 500mL PI.		NP		RCRA Metals
MW 15	1 500mL PI.		↓		Dissolved Lead
MW 15	" "		↓		Tetraethyl Lead
COMMENTS: MW			—		VOC's 8260b
MW 15	2 Amber L	↓	NP	↓	SVOC's EPA 8270c

11-14-02 ... 10 casing volumes \*

# WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility # Charson 211577  
 Address: 631 Queen Anne Ave. N.  
 City: Seattle, WA

Job #: 380765  
 Date: 11-14-02  
 Sampler: BWN

Well ID: MW-16 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 24.70 ft.  
 Depth to Water: 12.36 ft.  
 Hydrocarbon Thickness: Ø in.  
 Amount Bailed (product/water): Ø (gal.)  
 Volume Factor (VF) table:  
 2" = 0.17      3" = 0.38      4" = 0.66  
 6" = 1.50      12" = 5.80  
 Purge Volume: 12.34 x VF .17 = 2 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1330 Weather Conditions: pt. sunny  
 Sampling Time: 1355 Water Color: brown Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1336	2	7.16	313	13.2			
1342	4	7.14	309	13.0			
1348	6	7.09	302	12.8			

## LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 16	6 x VOA VIAL	Y	HCL	NCA	TPH/G/BTEX/MTBE
MW 16	1 Amber L		↓		TPH(W) x W/S6
<del>MW</del>	1 500mL PL.		NP		RCRA Metals
MW 16	1 500mL PL.		↓		Dissolved Lead
MW 16	" "		↓		Tetrachlyl Lead
COMMENTS: MW					VOC's 8260b
<del>MW</del>	2 Amber L	↓	NP	↓	SVOC'S EPA 8270c

\* waited 1 hour for car over well to be towed \*

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/  
Facility # Charson 211577  
Address: 631 Queen Anne Ave. N.  
City: Seattle, WA

Job#: 386765  
Date: 11-14-02  
Sampler: BWN

Well ID MW-17 Well Condition: OK

Well Diameter 2 in.  
Total Depth 24.85 ft.  
Depth to Water 10.00 ft.

Hydrocarbon Thickness: Ø in. Amount Bailed (product/water): Ø (gal.)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.85 x VF .17 = 2.5 x 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer  
Bailer  
Stack  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 1215  
Sampling Time: 1240  
Purging Flow Rate: \_\_\_\_\_ gpm.  
Did well de-water? no

Weather Conditions: pt. sunny  
Water Color: brown Odor: slight  
Sediment Description: \_\_\_\_\_  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1222</u>	<u>2.5</u>	<u>6.89</u>	<u>371</u>	<u>13.3</u>			
<u>1229</u>	<u>5</u>	<u>6.82</u>	<u>363</u>	<u>13.0</u>			
<u>1236</u>	<u>7.5</u>	<u>6.79</u>	<u>359</u>	<u>12.9</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW 17	6 x VOA VIAL	Y	HCL	NCA	TPH, BTEX, MTBE
MW 17	1 Amber L		↓		TPH (O) x w/SG
<del>MW 17</del>	<del>1 Amber PI.</del>		NP		<del>PERA Metals</del>
MW 17	1 500ml PI.		↓		Dissolved Lead
MW 17	" "		↓		Tetraethyl Lead
COMMENTS: MW					VOC's 8260b
MW 17	<del>2 Amber</del>	↓	<del>NP</del>	↓	<del>STOC'S EPA 8170</del>

*7 day EPB+EPX*



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GENERAL CONTRACTORS

27 November 2002

Deanna Harding  
Gettler-Ryan Inc. - Dublin  
3747 Sierra Ct, Suite G  
Dublin, CA/USA 94568  
RE: Chevron #21-1577

Enclosed are the results of analyses for samples received by the laboratory on 11/15/02 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite  
Project Manager



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB LB	B2K0376-01	Water	11/14/02 12:00	11/15/02 14:00
MW 14	B2K0376-02	Water	11/14/02 11:55	11/15/02 14:00
MW 15	B2K0376-03	Water	11/14/02 11:00	11/15/02 14:00
MW 16	B2K0376-04	Water	11/14/02 13:55	11/15/02 14:00
MW 17	B2K0376-05	Water	11/14/02 12:40	11/15/02 14:00

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

**North Creek Analytical, Inc.  
 Environmental Laboratory Network**





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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TB LB (B2K0376-01) Water**    Sampled: 11/14/02 12:00    Received: 11/15/02 14:00

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2K19006	11/19/02	11/19/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.0 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	99.8 %	62-120			"	"	"	"	

**MW 14 (B2K0376-02) Water**    Sampled: 11/14/02 11:55    Received: 11/15/02 14:00

Q-23

Gasoline Range Hydrocarbons	43100	2500	ug/l	50	2K19006	11/19/02	11/19/02	NWTPH-Gx/8021B	
Toluene	4930	25.0	"	"	"	"	"	"	
Ethylbenzene	1540	25.0	"	"	"	"	"	"	
Xylenes (total)	6020	50.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	102 %	62-120			"	"	"	"	

**MW 14 (B2K0376-02RE1) Water**    Sampled: 11/14/02 11:55    Received: 11/15/02 14:00

Q-23

Benzene	9900	250	ug/l	500	2K20003	11/19/02	11/20/02	NWTPH-Gx/8021B	
Surrogate: 4-BFB (PID)	86.2 %	62-120			"	"	"	"	

**MW 15 (B2K0376-03) Water**    Sampled: 11/14/02 11:00    Received: 11/15/02 14:00

Gasoline Range Hydrocarbons	3280	500	ug/l	10	2K19006	11/19/02	11/19/02	NWTPH-Gx/8021B	
Toluene	5.23	5.00	"	"	"	"	"	"	
Ethylbenzene	5.06	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	10.0	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	95.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	105 %	62-120			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: TW21577 Project Manager: Deanna Harding	Reported: 11/27/02 11:38
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**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW 15 (B2K0376-03RE1) Water** Sampled: 11/14/02 11:00 Received: 11/15/02 14:00

<b>Benzene</b>	<b>1640</b>	25.0	ug/l	50	2K20003	11/19/02	11/20/02	NWTPH-Gx/8021B	
<i>Surrogate: 4-BFB (PID)</i>	<i>83.3 %</i>	<i>62-120</i>			"	"	"	"	

**MW 16 (B2K0376-04) Water** Sampled: 11/14/02 13:55 Received: 11/15/02 14:00

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	2K19006	11/19/02	11/19/02	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>90.0 %</i>	<i>57-125</i>			"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>101 %</i>	<i>62-120</i>			"	"	"	"	

**MW 17 (B2K0376-05) Water** Sampled: 11/14/02 12:40 Received: 11/15/02 14:00

Gasoline Range Hydrocarbons	2780	250	ug/l	5	2K19006	11/19/02	11/19/02	NWTPH-Gx/8021B	
Toluene	31.0	2.50	"	"	"	"	"	"	
Ethylbenzene	91.1	2.50	"	"	"	"	"	"	
Xylenes (total)	250	5.00	"	"	"	"	"	"	
<i>Surrogate: 4-BFB (FID)</i>	<i>94.2 %</i>	<i>57-125</i>			"	"	"	"	
<i>Surrogate: 4-BFB (PID)</i>	<i>109 %</i>	<i>62-120</i>			"	"	"	"	

**MW 17 (B2K0376-05RE1) Water** Sampled: 11/14/02 12:40 Received: 11/15/02 14:00

<b>Benzene</b>	<b>569</b>	12.5	ug/l	25	2K20003	11/19/02	11/20/02	NWTPH-Gx/8021B	
<i>Surrogate: 4-BFB (PID)</i>	<i>80.6 %</i>	<i>62-120</i>			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 14 (B2K0376-02) Water Sampled: 11/14/02 11:55 Received: 11/15/02 14:00</b>									
Diesel Range Hydrocarbons	4.71	0.500	mg/l	2	2K19013	11/19/02	11/21/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	1	"	"	11/20/02	"	
Surrogate: 2-FBP	108 %	52-126			"	"	"	"	
Surrogate: Octacosane	108 %	53-122			"	"	"	"	
<b>MW 15 (B2K0376-03) Water Sampled: 11/14/02 11:00 Received: 11/15/02 14:00</b>									
Diesel Range Hydrocarbons	0.780	0.250	mg/l	1	2K19013	11/19/02	11/20/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	89.9 %	52-126			"	"	"	"	
Surrogate: Octacosane	97.8 %	53-122			"	"	"	"	
<b>MW 16 (B2K0376-04) Water Sampled: 11/14/02 13:55 Received: 11/15/02 14:00</b>									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	2K19013	11/19/02	11/20/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	82.5 %	52-126			"	"	"	"	
Surrogate: Octacosane	93.4 %	53-122			"	"	"	"	
<b>MW 17 (B2K0376-05) Water Sampled: 11/14/02 12:40 Received: 11/15/02 14:00</b>									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	2K19013	11/19/02	11/20/02	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	"	"	"	"	"	"	
Surrogate: 2-FBP	83.8 %	52-126			"	"	"	"	
Surrogate: Octacosane	98.4 %	53-122			"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*  
 Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: TW21577 Project Manager: Deanna Harding	Reported: 11/27/02 11:38
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**Dissolved Metals by EPA 6000/7000 Series Methods  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW 14 (B2K0376-02) Water**    **Sampled: 11/14/02 11:55**    **Received: 11/15/02 14:00** Q-30

Silver	ND	0.00100	mg/l	1	2K18044	11/18/02	11/21/02	EPA 6020	
Arsenic	0.0170	0.00100	"	"	"	"	"	"	
Barium	0.0184	0.0100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Mercury	ND	0.00100	"	"	2K20023	11/20/02	11/20/02	EPA 7470A	
Lead	0.00182	0.00100	"	"	2K15061	11/15/02	11/16/02	EPA 6020	
Selenium	0.00148	0.00100	"	"	2K18044	11/18/02	11/21/02	"	

**MW 15 (B2K0376-03) Water**    **Sampled: 11/14/02 11:00**    **Received: 11/15/02 14:00** Q-30

Silver	ND	0.00100	mg/l	1	2K18044	11/18/02	11/21/02	EPA 6020	
Arsenic	0.00133	0.00100	"	"	"	"	"	"	
Barium	ND	0.0100	"	"	"	"	"	"	
Cadmium	ND	0.00100	"	"	"	"	"	"	
Chromium	ND	0.00100	"	"	"	"	"	"	
Mercury	ND	0.00100	"	"	2K20023	11/20/02	11/20/02	EPA 7470A	
Lead	0.00104	0.00100	"	"	2K15061	11/15/02	11/16/02	EPA 6020	
Selenium	ND	0.00100	"	"	2K18044	11/18/02	11/21/02	"	

**MW 16 (B2K0376-04) Water**    **Sampled: 11/14/02 13:55**    **Received: 11/15/02 14:00** Q-30

Lead	ND	0.00100	mg/l	1	2K15061	11/15/02	11/16/02	EPA 6020	
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**MW 17 (B2K0376-05) Water**    **Sampled: 11/14/02 12:40**    **Received: 11/15/02 14:00** Q-30

Lead	ND	0.00100	mg/l	1	2K15061	11/15/02	11/16/02	EPA 6020	
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North Creek Analytical - Bothell *The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Jeanne Garthwaite*  
 Jeanne Garthwaite, Project Manager



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 14 (B2K0376-02) Water Sampled: 11/14/02 11:55 Received: 11/15/02 14:00</b>									
Acenaphthene	ND	10.0	ug/l	1	2K16001	11/16/02	11/25/02	EPA 8270C	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Aniline	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzoic Acid	ND	20.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	50.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"	
Carbazole	ND	10.0	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	10.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	"	"	"	"	"	"	
<b>2,4-Dimethylphenol</b>	<b>13.4</b>	10.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10.0	"	"	"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*  
 Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Result	Limit							
<b>MW 14 (B2K0376-02) Water</b> <b>Sampled: 11/14/02 11:55</b> <b>Received: 11/15/02 14:00</b>										
2,4-Dinitrophenol	ND	20.0		ug/l	1	2K16001	11/16/02	11/25/02		
2,4-Dinitrotoluene	ND	10.0		"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10.0		"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10.0		"	"	"	"	"	"	
Fluoranthene	ND	10.0		"	"	"	"	"	"	
Fluorene	ND	10.0		"	"	"	"	"	"	
Hexachlorobenzene	ND	10.0		"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0		"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10.0		"	"	"	"	"	"	
Hexachloroethane	ND	10.0		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0		"	"	"	"	"	"	
Isophorone	ND	10.0		"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>52.2</b>	10.0		"	"	"	"	"	"	
<b>2-Methylphenol</b>	<b>11.0</b>	10.0		"	"	"	"	"	"	
<b>3 &amp; 4-Methylphenol</b>	<b>24.8</b>	10.0		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>242</b>	50.0		"	5	"	"	11/26/02	"	
2-Nitroaniline	ND	10.0		"	1	"	"	11/25/02	"	
3-Nitroaniline	ND	10.0		"	"	"	"	"	"	
4-Nitroaniline	ND	10.0		"	"	"	"	"	"	
Nitrobenzene	ND	10.0		"	"	"	"	"	"	
2-Nitrophenol	ND	10.0		"	"	"	"	"	"	
4-Nitrophenol	ND	10.0		"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10.0		"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10.0		"	"	"	"	"	"	
Pentachlorophenol	ND	10.0		"	"	"	"	"	"	
Phenanthrene	ND	10.0		"	"	"	"	"	"	
<b>Phenol</b>	<b>34.5</b>	10.0		"	"	"	"	"	"	
Pyrene	ND	10.0		"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0		"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10.0		"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10.0		"	"	"	"	"	"	
Surrogate: 2-FP	52.0 %	27-124				"	"	"	"	
Surrogate: Phenol-d6	85.2 %	12-124				"	"	"	"	
Surrogate: 2,4,6-TBP	95.2 %	33-143				"	"	"	"	
Surrogate: Nitrobenzene-d5	93.8 %	35-119				"	"	"	"	
Surrogate: 2-FBP	92.6 %	44-124				"	"	"	"	

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW 14 (B2K0376-02) Water Sampled: 11/14/02 11:55 Received: 11/15/02 14:00

Surrogate: p-Terphenyl-d14	23.6 %	10-131			2K16001	11/16/02	11/25/02		
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MW 15 (B2K0376-03) Water Sampled: 11/14/02 11:00 Received: 11/15/02 14:00

Acenaphthene	ND	10.0	ug/l	1	2K16001	11/16/02	11/25/02	EPA 8270C	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	"
Aniline	ND	10.0	"	"	"	"	"	"	"
Anthracene	ND	10.0	"	"	"	"	"	"	"
Benzoic Acid	ND	20.0	"	"	"	"	"	"	"
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	"
Benzo (ghi) perylene	ND	10.0	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	"
Benzyl alcohol	ND	10.0	"	"	"	"	"	"	"
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	"
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"	"
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"	"
Bis(2-ethylhexyl)phthalate	ND	50.0	"	"	"	"	"	"	"
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	"
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"	"
Carbazole	ND	10.0	"	"	"	"	"	"	"
4-Chloroaniline	ND	10.0	"	"	"	"	"	"	"
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"	"
4-Chloro-3-methylphenol	ND	10.0	"	"	"	"	"	"	"
2-Chlorophenol	ND	10.0	"	"	"	"	"	"	"
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	"
Chrysene	ND	10.0	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	"
Dibenzofuran	ND	10.0	"	"	"	"	"	"	"
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	"
3,3'-Dichlorobenzidine	ND	10.0	"	"	"	"	"	"	"
2,4-Dichlorophenol	ND	10.0	"	"	"	"	"	"	"
Diethyl phthalate	ND	10.0	"	"	"	"	"	"	"

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

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 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 15 (B2K0376-03) Water    Sampled: 11/14/02 11:00    Received: 11/15/02 14:00</b>									
2,4-Dimethylphenol	ND	10.0	ug/l	1	2K16001	11/16/02	11/25/02	"	
Dimethyl phthalate	ND	10.0	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	10.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	20.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	10.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"	"	
Hexachloroethane	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Isophorone	ND	10.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10.0	"	"	"	"	"	"	
2-Methylphenol	ND	10.0	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10.0	"	"	"	"	"	"	
4-Nitroaniline	ND	10.0	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
2-Nitrophenol	ND	10.0	"	"	"	"	"	"	
4-Nitrophenol	ND	10.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	
<b>Phenol</b>	<b>37.0</b>	10.0	"	"	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
Surrogate: 2-FP	78.4 %	27-124			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwaite, Project Manager

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 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Organic Compounds by EPA Method 8270C**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

MW 15 (B2K0376-03) Water Sampled: 11/14/02 11:00 Received: 11/15/02 14:00

Surrogate: Phenol-d6	74.0 %	12-124				2K16001	11/16/02	11/25/02	"	
Surrogate: 2,4,6-TBP	86.8 %	33-143				"	"	"	"	
Surrogate: Nitrobenzene-d5	85.2 %	35-119				"	"	"	"	
Surrogate: 2-FBP	87.2 %	44-124				"	"	"	"	
Surrogate: p-Terphenyl-d14	40.6 %	10-131				"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: TW21577 Project Manager: Deanna Harding	Reported: 11/27/02 11:38
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**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K19006: Prepared 11/19/02 Using EPA 5030B (P/T)**

**Blank (2K19006-BLK1)**

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	41.2		"	48.0		85.8	57-125			
Surrogate: 4-BFB (PID)	47.5		"	48.0		99.0	62-120			

**LCS (2K19006-BS1)**

Gasoline Range Hydrocarbons	442	50.0	ug/l	500		88.4	80-120			
Benzene	6.20	0.500	"	6.19		100	80-120			
Toluene	33.3	0.500	"	37.3		89.3	80-120			
Ethylbenzene	8.68	0.500	"	8.92		97.3	80-120			
Xylenes (total)	42.5	1.00	"	43.6		97.5	80-120			
Surrogate: 4-BFB (FID)	46.7		"	48.0		97.3	57-125			
Surrogate: 4-BFB (PID)	47.4		"	48.0		98.8	62-120			

**LCS Dup (2K19006-BSD1)**

Gasoline Range Hydrocarbons	489	50.0	ug/l	500		97.8	80-120	10.1	25	
Benzene	6.59	0.500	"	6.19		106	80-120	6.10	40	
Toluene	35.5	0.500	"	37.3		95.2	80-120	6.40	40	
Ethylbenzene	9.24	0.500	"	8.92		104	80-120	6.25	40	
Xylenes (total)	45.4	1.00	"	43.6		104	80-120	6.60	40	
Surrogate: 4-BFB (FID)	49.5		"	48.0		103	57-125			
Surrogate: 4-BFB (PID)	48.3		"	48.0		101	62-120			

**Matrix Spike (2K19006-MS1)**

**Source: B2K0243-01**

Gasoline Range Hydrocarbons	452	50.0	ug/l	500	21.3	86.1	70-130			
Benzene	6.27	0.500	"	6.19	ND	101	80-134			
Toluene	33.5	0.500	"	37.3	ND	89.8	68-114			
Ethylbenzene	8.65	0.500	"	8.92	0.139	95.4	72-128			
Xylenes (total)	41.2	1.00	"	43.6	0.355	93.7	67-125			
Surrogate: 4-BFB (FID)	48.6		"	48.0		101	57-125			
Surrogate: 4-BFB (PID)	49.0		"	48.0		102	62-120			

North Creek Analytical - Bothell

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*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**



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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: TW21577 Project Manager: Deanna Harding	Reported: 11/27/02 11:38
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**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K19006: Prepared 11/19/02 Using EPA 5030B (P/T)**

Matrix Spike Dup (2K19006-MSD1)				Source: B2K0243-01						
Gasoline Range Hydrocarbons	474	50.0	ug/l	500	21.3	90.5	70-130	4.75	25	
Benzene	6.46	0.500	"	6.19	ND	104	80-134	2.99	40	
Toluene	34.4	0.500	"	37.3	ND	92.2	68-114	2.65	40	
Ethylbenzene	8.88	0.500	"	8.92	0.139	98.0	72-128	2.62	40	
Xylenes (total)	42.0	1.00	"	43.6	0.355	95.5	67-125	1.92	40	
Surrogate: 4-BFB (FID)	49.9		"	48.0		104	57-125			
Surrogate: 4-BFB (PID)	48.1		"	48.0		100	62-120			

**Batch 2K20003: Prepared 11/20/02 Using EPA 5030B (P/T)**

Blank (2K20003-BLK1)										
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	38.0		"	48.0		79.2	57-125			
Surrogate: 4-BFB (PID)	39.9		"	48.0		83.1	62-120			

LCS (2K20003-BS1)										
Gasoline Range Hydrocarbons	440	50.0	ug/l	500		88.0	80-120			
Benzene	5.89	0.500	"	6.19		95.2	80-120			
Toluene	32.8	0.500	"	37.3		87.9	80-120			
Ethylbenzene	8.56	0.500	"	8.92		96.0	80-120			
Xylenes (total)	43.2	1.00	"	43.6		99.1	80-120			
Surrogate: 4-BFB (FID)	47.6		"	48.0		99.2	57-125			
Surrogate: 4-BFB (PID)	40.9		"	48.0		85.2	62-120			

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K20003: Prepared 11/20/02 Using EPA 5030B (P/T)**

**LCS Dup (2K20003-BSD1)**

Gasoline Range Hydrocarbons	434	50.0	ug/l	500		86.8	80-120	1.37	25	
Benzene	5.93	0.500	"	6.19		95.8	80-120	0.677	40	
Toluene	32.8	0.500	"	37.3		87.9	80-120	0.00	40	
Ethylbenzene	8.53	0.500	"	8.92		95.6	80-120	0.351	40	
Xylenes (total)	43.1	1.00	"	43.6		98.9	80-120	0.232	40	
Surrogate: 4-BFB (FID)	47.4		"	48.0		98.8	57-125			
Surrogate: 4-BFB (PID)	40.9		"	48.0		85.2	62-120			

**Matrix Spike (2K20003-MS1)**

Source: B2K0275-06

Gasoline Range Hydrocarbons	448	50.0	ug/l	500	16.8	86.2	70-130			
Benzene	6.20	0.500	"	6.19	ND	100	80-134			
Toluene	34.5	0.500	"	37.3	ND	92.5	68-114			
Ethylbenzene	9.04	0.500	"	8.92	ND	101	72-128			
Xylenes (total)	45.6	1.00	"	43.6	ND	105	67-125			
Surrogate: 4-BFB (FID)	46.9		"	48.0		97.7	57-125			
Surrogate: 4-BFB (PID)	41.3		"	48.0		86.0	62-120			

**Matrix Spike Dup (2K20003-MSD1)**

Source: B2K0275-06

Gasoline Range Hydrocarbons	450	50.0	ug/l	500	16.8	86.6	70-130	0.445	25	
Benzene	6.06	0.500	"	6.19	ND	97.9	80-134	2.28	40	
Toluene	33.7	0.500	"	37.3	ND	90.3	68-114	2.35	40	
Ethylbenzene	9.03	0.500	"	8.92	ND	101	72-128	0.111	40	
Xylenes (total)	44.4	1.00	"	43.6	ND	102	67-125	2.67	40	
Surrogate: 4-BFB (FID)	47.3		"	48.0		98.5	57-125			
Surrogate: 4-BFB (PID)	40.6		"	48.0		84.6	62-120			

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

Reported:  
 11/27/02 11:38

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2K19013: Prepared 11/19/02 Using EPA 3520C

**Blank (2K19013-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.304		"	0.320		95.0	52-126			
Surrogate: Octacosane	0.286		"	0.320		89.4	53-122			

**LCS (2K19013-BS1)**

Diesel Range Hydrocarbons	1.63	0.250	mg/l	2.00		81.5	60-122			
Surrogate: 2-FBP	0.265		"	0.320		82.8	52-126			

**LCS Dup (2K19013-BSD1)**

Diesel Range Hydrocarbons	1.67	0.250	mg/l	2.00		83.5	60-122	2.42	40	
Surrogate: 2-FBP	0.277		"	0.320		86.6	52-126			

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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K15061: Prepared 11/15/02 Using EPA 3005A**

**Blank (2K15061-BLK1)**

Lead	ND	0.00100	mg/l							
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**LCS (2K15061-BS1)**

Lead	0.196	0.00100	mg/l	0.200		98.0	80-120			
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**LCS Dup (2K15061-BSD1)**

Lead	0.198	0.00100	mg/l	0.200		99.0	80-120	1.02	20	
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**Matrix Spike (2K15061-MS1)**

**Source: B2K0376-02**

Lead	0.0980	0.00100	mg/l	0.100	0.00182	96.2	75-125			
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**Matrix Spike Dup (2K15061-MSD1)**

**Source: B2K0376-02**

Lead	0.0980	0.00100	mg/l	0.100	0.00182	96.2	75-125	0.00	20	
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**Batch 2K18044: Prepared 11/18/02 Using EPA 3005A**

**Blank (2K18044-BLK1)**

Arsenic	ND	0.00100	mg/l							
Barium	ND	0.0100	"							
Cadmium	ND	0.00100	"							
Chromium	ND	0.00100	"							
Selenium	ND	0.00100	"							
Silver	ND	0.00100	"							

**LCS (2K18044-BS1)**

Arsenic	0.188	0.00100	mg/l	0.200		94.0	80-120			
Barium	0.198	0.0100	"	0.200		99.0	80-120			
Cadmium	0.187	0.00100	"	0.200		93.5	80-120			
Chromium	0.200	0.00100	"	0.200		100	80-120			
Selenium	0.189	0.00100	"	0.200		94.5	80-120			
Silver	0.190	0.00100	"	0.200		95.0	80-120			

North Creek Analytical - Bothell

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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K18044: Prepared 11/18/02 Using EPA 3005A**

**LCS Dup (2K18044-BSD1)**

Arsenic	0.186	0.00100	mg/l	0.200		93.0	80-120	1.07	20	
Barium	0.198	0.0100	"	0.200		99.0	80-120	0.00	20	
Cadmium	0.184	0.00100	"	0.200		92.0	80-120	1.62	20	
Chromium	0.198	0.00100	"	0.200		99.0	80-120	1.01	20	
Selenium	0.189	0.00100	"	0.200		94.5	80-120	0.00	20	
Silver	0.188	0.00100	"	0.200		94.0	80-120	1.06	20	

**Matrix Spike (2K18044-MS1)**

**Source: B2K0376-02**

Arsenic	0.110	0.00100	mg/l	0.100	0.0170	93.0	75-125			
Barium	0.114	0.0100	"	0.100	0.0184	95.6	75-125			
Cadmium	0.0899	0.00100	"	0.100	0.000200	89.7	75-125			
Chromium	0.0925	0.00100	"	0.100	0.000290	92.2	75-125			
Selenium	0.0976	0.00100	"	0.100	0.00148	96.1	76-128			
Silver	0.0655	0.00100	"	0.100	ND	65.5	21-136			

**Matrix Spike Dup (2K18044-MSD1)**

**Source: B2K0376-02**

Arsenic	0.110	0.00100	mg/l	0.100	0.0170	93.0	75-125	0.00	20	
Barium	0.114	0.0100	"	0.100	0.0184	95.6	75-125	0.00	20	
Cadmium	0.0897	0.00100	"	0.100	0.000200	89.5	75-125	0.223	20	
Chromium	0.0935	0.00100	"	0.100	0.000290	93.2	75-125	1.08	20	
Selenium	0.0977	0.00100	"	0.100	0.00148	96.2	76-128	0.102	20	
Silver	0.0718	0.00100	"	0.100	ND	71.8	21-136	9.18	50	

**Batch 2K20023: Prepared 11/20/02 Using EPA 7470A Diss**

**Blank (2K20023-BLK1)**

Mercury	ND	0.00100	mg/l							
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**Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2K20023: Prepared 11/20/02 Using EPA 7470A Diss</b>										
<b>LCS (2K20023-BS1)</b>										
Mercury	0.00436	0.00100	mg/l	0.00500		87.2	80-120			
<b>LCS Dup (2K20023-BSD1)</b>										
Mercury	0.00465	0.00100	mg/l	0.00500		93.0	80-120	6.44	20	
<b>Matrix Spike (2K20023-MS1) Source: B2K0376-02</b>										
Mercury	0.00468	0.00100	mg/l	0.00500	0.0000810	92.0	70-130			
<b>Matrix Spike Dup (2K20023-MSD1) Source: B2K0376-02</b>										
Mercury	0.00487	0.00100	mg/l	0.00500	0.0000810	95.8	70-130	3.98	20	

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**Semivolatle Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K16001: Prepared 11/16/02 Using EPA 3520C**

**Blank (2K16001-BLK1)**

Acenaphthene	ND	10.0	ug/l							
Acenaphthylene	ND	10.0	"							
Aniline	ND	10.0	"							
Anthracene	ND	10.0	"							
Benzoic Acid	ND	20.0	"							
Benzo (a) anthracene	ND	10.0	"							
Benzo (b) fluoranthene	ND	10.0	"							
Benzo (k) fluoranthene	ND	10.0	"							
Benzo (ghi) perylene	ND	10.0	"							
Benzo (a) pyrene	ND	10.0	"							
Benzyl alcohol	ND	10.0	"							
Bis(2-chloroethoxy)methane	ND	10.0	"							
Bis(2-chloroethyl)ether	ND	10.0	"							
Bis(2-chloroisopropyl)ether	ND	10.0	"							
Bis(2-ethylhexyl)phthalate	ND	50.0	"							
4-Bromophenyl phenyl ether	ND	10.0	"							
Butyl benzyl phthalate	ND	10.0	"							
Carbazole	ND	10.0	"							
4-Chloroaniline	ND	10.0	"							
2-Chloronaphthalene	ND	10.0	"							
4-Chloro-3-methylphenol	ND	10.0	"							
2-Chlorophenol	ND	10.0	"							
4-Chlorophenyl phenyl ether	ND	10.0	"							
Chrysene	ND	10.0	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Dibenzofuran	ND	10.0	"							
Di-n-butyl phthalate	ND	10.0	"							
1,3-Dichlorobenzene	ND	10.0	"							
1,4-Dichlorobenzene	ND	10.0	"							
1,2-Dichlorobenzene	ND	10.0	"							
3,3'-Dichlorobenzidine	ND	10.0	"							
2,4-Dichlorophenol	ND	10.0	"							
Diethyl phthalate	ND	10.0	"							
2,4-Dimethylphenol	ND	10.0	"							

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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2K16001: Prepared 11/16/02 Using EPA 3520C**

**Blank (2K16001-BLK1)**

Dimethyl phthalate	ND	10.0	ug/l							
4,6-Dinitro-2-methylphenol	ND	10.0	"							
2,4-Dinitrophenol	ND	20.0	"							
2,4-Dinitrotoluene	ND	10.0	"							
2,6-Dinitrotoluene	ND	10.0	"							
Di-n-octyl phthalate	ND	10.0	"							
Fluoranthene	ND	10.0	"							
Fluorene	ND	10.0	"							
Hexachlorobenzene	ND	10.0	"							
Hexachlorobutadiene	ND	10.0	"							
Hexachlorocyclopentadiene	ND	10.0	"							
Hexachloroethane	ND	10.0	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Isophorone	ND	10.0	"							
2-Methylnaphthalene	ND	10.0	"							
2-Methylphenol	ND	10.0	"							
3 & 4-Methylphenol	ND	10.0	"							
Naphthalene	ND	10.0	"							
2-Nitroaniline	ND	10.0	"							
3-Nitroaniline	ND	10.0	"							
4-Nitroaniline	ND	10.0	"							
Nitrobenzene	ND	10.0	"							
2-Nitrophenol	ND	10.0	"							
4-Nitrophenol	ND	10.0	"							
N-Nitrosodiphenylamine	ND	10.0	"							
N-Nitrosodi-n-propylamine	ND	10.0	"							
Pentachlorophenol	ND	10.0	"							
Phenanthrene	ND	10.0	"							
Phenol	ND	10.0	"							
Pyrene	ND	10.0	"							
1,2,4-Trichlorobenzene	ND	10.0	"							
2,4,5-Trichlorophenol	ND	10.0	"							
2,4,6-Trichlorophenol	ND	10.0	"							

Surrogate: 2-FP	38.6	"	50.0	77.2	27-124
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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: TW21577 Project Manager: Deanna Harding	Reported: 11/27/02 11:38
---	---	-----------------------------

**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 2K16001: Prepared 11/16/02 Using EPA 3520C**

**Blank (2K16001-BLK1)**

Surrogate: Phenol-d6	40.6		ug/l	50.0		81.2	12-124			
Surrogate: 2,4,6-TBP	32.0		"	50.0		64.0	33-143			
Surrogate: Nitrobenzene-d5	43.2		"	50.0		86.4	35-119			
Surrogate: 2-FBP	43.7		"	50.0		87.4	44-124			
Surrogate: p-Terphenyl-d14	50.5		"	50.0		101	10-131			

**LCS (2K16001-BS1)**

Acenaphthene	96.2	10.0	ug/l	100		96.2	45-130			
4-Chloro-3-methylphenol	102	10.0	"	100		102	37-120			
2-Chlorophenol	108	10.0	"	100		108	38-120			
1,4-Dichlorobenzene	97.9	10.0	"	100		97.9	33-120			
2,4-Dinitrotoluene	96.7	10.0	"	100		96.7	52-120			
4-Nitrophenol	94.4	10.0	"	100		94.4	20-135			
N-Nitrosodi-n-propylamine	97.3	10.0	"	100		97.3	40-120			
Pentachlorophenol	89.4	10.0	"	100		89.4	31-133			
Phenol	107	10.0	"	100		107	20-120			
Pyrene	101	10.0	"	100		101	38-123			
1,2,4-Trichlorobenzene	96.9	10.0	"	100		96.9	28-120			
Surrogate: 2-FP	44.9		"	50.0		89.8	27-124			
Surrogate: Phenol-d6	48.4		"	50.0		96.8	12-124			
Surrogate: 2,4,6-TBP	45.5		"	50.0		91.0	33-143			
Surrogate: Nitrobenzene-d5	47.6		"	50.0		95.2	35-119			
Surrogate: 2-FBP	47.0		"	50.0		94.0	44-124			
Surrogate: p-Terphenyl-d14	48.2		"	50.0		96.4	10-131			

**LCS Dup (2K16001-BSD1)**

Acenaphthene	94.0	10.0	ug/l	100		94.0	45-130	2.31	49	
4-Chloro-3-methylphenol	102	10.0	"	100		102	37-120	0.00	49	
2-Chlorophenol	98.9	10.0	"	100		98.9	38-120	8.80	61	
1,4-Dichlorobenzene	91.9	10.0	"	100		91.9	33-120	6.32	26	
2,4-Dinitrotoluene	101	10.0	"	100		101	52-120	4.35	29	
4-Nitrophenol	104	10.0	"	100		104	20-135	9.68	37	
N-Nitrosodi-n-propylamine	91.9	10.0	"	100		91.9	40-120	5.71	36	
Pentachlorophenol	95.8	10.0	"	100		95.8	31-133	6.91	32	
Phenol	102	10.0	"	100		102	20-120	4.78	53	
Pyrene	99.5	10.0	"	100		99.5	38-123	1.50	50	

North Creek Analytical - Bothell

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
Environmental Laboratory Network

Page 20 of 22



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 Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
 503.906.9200 fax 503.906.9210  
 Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #21-1577 Project Number: TW21577 Project Manager: Deanna Harding	Reported: 11/27/02 11:38
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**Semivolatile Organic Compounds by EPA Method 8270C - Quality Control  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 2K16001: Prepared 11/16/02 Using EPA 3520C**

**LCS Dup (2K16001-BSD1)**

1,2,4-Trichlorobenzene	89.9	10.0	ug/l	100		89.9	28-120	7.49	25	
Surrogate: 2-FP	40.7		"	50.0		81.4	27-124			
Surrogate: Phenol-d6	45.2		"	50.0		90.4	12-124			
Surrogate: 2,4,6-TBP	46.5		"	50.0		93.0	33-143			
Surrogate: Nitrobenzene-d5	43.2		"	50.0		86.4	35-119			
Surrogate: 2-FBP	45.0		"	50.0		90.0	44-124			
Surrogate: p-Terphenyl-d14	48.1		"	50.0		96.2	10-131			

North Creek Analytical - Bothell

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager

North Creek Analytical, Inc.  
 Environmental Laboratory Network



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Ct, Suite G  
 Dublin CA/USA, 94568

Project: Chevron #21-1577  
 Project Number: TW21577  
 Project Manager: Deanna Harding

**Reported:**  
 11/27/02 11:38

**Notes and Definitions**

- Q-23 This sample was received and analyzed unpreserved. Preservation with acid is required by the method.
- Q-30 This sample was laboratory filtered since it was not field filtered as is required by the methodology.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

*Jeanne Garthwaite*

Jeanne Garthwaite, Project Manager



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NOV 15 2002

DEPT OF ECOLOGY

**LETTER OF TRANSMITTAL**

1200-112th Avenue NE, Suite C-210 Bellevue, WA 98004  
 Phone: (425) 450-7726 Fax: (425) 450-8837

To:  
 Washington State Department of Ecology  
 Northwest Region  
 Mr. Brian Sato, P.E.  
 Project Manager  
 Toxics Cleanup Program  
 3190 - 160<sup>th</sup> Avenue, SE, Bellevue, WA 98008

Date: November 13, 2002

Office Use
Project No. TW21577-4C02
Re: Queen Ann Texaco

Attached Please Find:

Copies	Date	No.	Description
1	11/13/02		Primary analytical tables with sampling location figure

**TRANSMITTED**

- for Your Use
- for Your Review & Comment
- As Requested
- Other:

**SENT VIA**

- U. S. Mail
- Overnight Express Mail
- Courier
- Hand Delivery
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Comments: \_\_\_\_\_

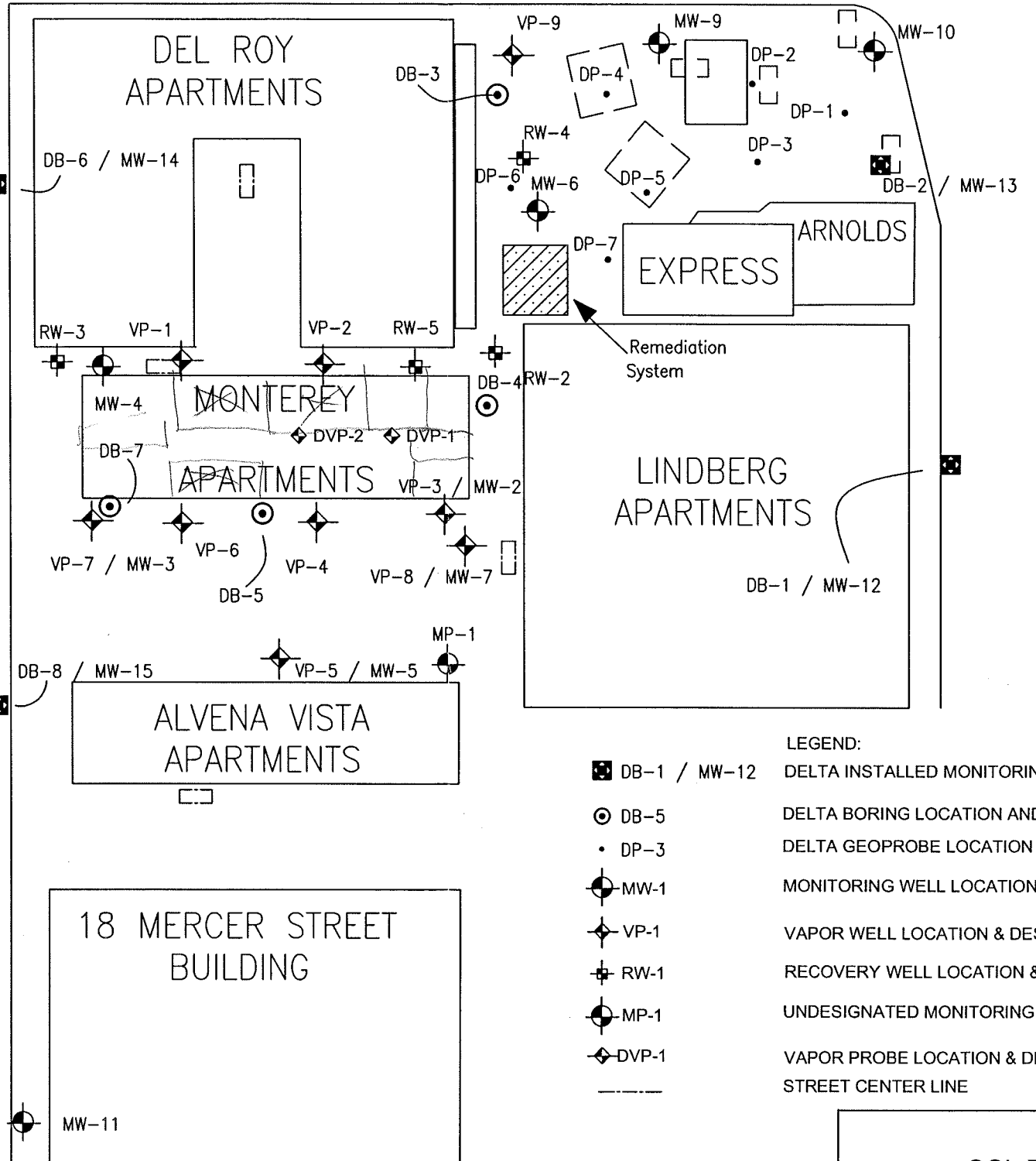
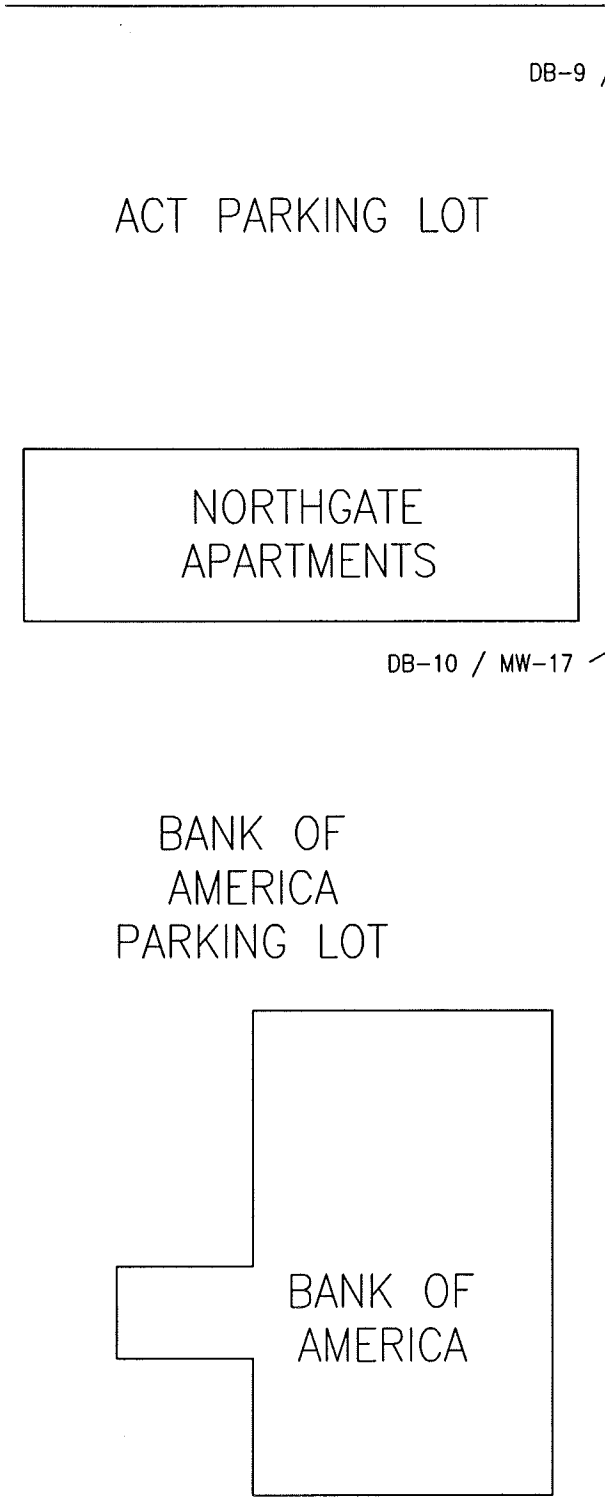
Copies To:  
 Brett Hunter – Chevron-Texaco Products Company  
 Tom Morin – Environmental Partners, Inc.  
 Bert Hyde – Sound Environmental Strategies, Inc.  
 Patrick M. Paulich - Thorsrud, Cane & Paulich

From: Peter Catterall  
 425-450-9637  
 pcatterall@deltaenv.com

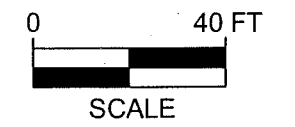
WEST ROY STREET

QUEEN ANNE AVENUE NORTH

1ST AVENUE WEST



- LEGEND:
- DB-1 / MW-12 DELTA INSTALLED MONITORING WELL LOCATION & DESIGNATION
  - ⊙ DB-5 DELTA BORING LOCATION AND DESIGNATION
  - DP-3 DELTA GEOPROBE LOCATION AND DESIGNATION
  - MW-1 MONITORING WELL LOCATION & DESIGNATION
  - ◆ VP-1 VAPOR WELL LOCATION & DESIGNATION
  - ⊕ RW-1 RECOVERY WELL LOCATION & DESIGNATION
  - MP-1 UNDESIGNATED MONITORING WELL
  - ◆ DVP-1 VAPOR PROBE LOCATION & DESIGNATION
  - STREET CENTER LINE



**SOL BORING, PROBE & WELL LOCATIONS**  
**QUEEN ANNE TEXACO**  
**631 QUEEN ANNE NORTH SEATTLE, WASHINGTON**

PROJECT NO. TW21-577	DRAWN BY M.S.M. 10/07/02
FILE NO. 21577	PREPARED BY M.S.M.
REVISION NO. 2	REVIEWED BY P.H. CATTERALL

Delta  
Environmental  
Consultants, Inc.

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AIR ANALYTICAL RESULTS

Former Queen Anne Texaco 211577  
 631 Queen Anne Avenue North  
 Seattle, WA

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Sample Location	DVP-1	DVP-2
Sample I.D.	SUMMA 0132	SUMMA 0101
Concentration	ppb (v)	ppb (v)
Compound Name	Date	Date
	10/3/02	10/3/02

**EPA METHODS 18 & 25**

Methane	25,000	350
>C4-C10 Hydrocarbons	8,600	3,800

**EPA METHOD TO-14**

Dichlorodifluoromethane	1500 U	0.2 U
Feron 114	1500 U	0.2 U
Chloromethane	1500 U	0.2 U
Vinyl chloride	1500 U	0.2 U
Bromomethane	1500 U	0.2 U
Chloroethane	1500 U	0.2 U
Trichlorofluoromethane	1500 U	0.2 U
1,1-Dichloroethene	1500 U	0.2 U
Feron 113	3800 U	0.5 U
3-Chloropropane	3800 U	0.5 U
Methylene chloride	3800 U	0.5 U
1,1-Dichloroethene	1500 U	0.2 U
cis-1,2-Dichloroethene	1500 U	0.2 U
Chloroform	1500 U	0.2 U
1,1,1-Trichloroethane	1500 U	0.2 U
Carbon tetrachloride	1500 U	0.2 U
1,2-Dibromoethane	1500 U	0.2 U
Benzene	<b>13000 D</b>	<b>6 D</b>
Trichlorofluoromethane	1500 U	0.2 U
1,2-Dichloropropane	1500 U	0.2 U
cis-1,3-Dichloropropene	1500 U	0.2 U
Toluene	<b>110000 D</b>	<b>35 D</b>
trans-1,3-Dichloropropene	1500 U	0.2 U
1,1,2-Trichloroethane	1500 U	0.2 U
Tetrachloroethene	<b>6200 D</b>	0.5 U
1,2-Dibromoethane	1500 U	0.2 U

**AIR ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Compound Name	Sample I.D.	SUMMA 0132	SUMMA 0101
	Concentration	ppb (v)	ppb (v)
	Date	10/3/02	10/3/02
<b>EPA METHOD TO-14 Con't</b>			
Chlorobenzene		1500 U	0.2 U
Ethylbenzene		55000 D	10 D
m/p-Xylene		360000 D	62 D
o-Xylene		140000 D	26 D
Styrene		1500 U	0.2 U
1,1,2,2-Tetrachloroethane		1500 U	0.2 U
4-Ethyltoluene		100000 D	16 D
1,3,5-Trimethylbenzene		64000 D	11 D
1,2,4-Trimethylbenzene		110000 D	18 D
1,3-Dichlorobenzene		3800 U	0.5 U
1,4-Dichlorobenzene		3800 U	0.5 U
Benzyl chloride		1500 U	0.2 U
1,2-Dichlorobenzene		3800 U	0.5 U
1,2,4-Trichlorobenzene		7500 U	1 U
Hexachlorobutadiene		3800 U	0.5 U

**DRAFT**  
QA/QC \_\_\_\_\_ 11/13/2002

**SOIL ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. TOC (ft.)	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total VPH <sup>(1)</sup> (mg/kg)	Total EPH <sup>(2)</sup> (mg/kg)
DB-1-16.0	9/26/02	5.00U	10.0U	25.0U	0.030U	0.050U	0.050U	0.100U	--	--
DB-2-14.0	9/24/02	5.00U	10.0U	25.0U	0.030U	0.050U	0.050U	0.100U	5.00U	5.00U
DB-3-11.0	9/26/02	8.30	10.5	25.0U	0.030U	0.050U	0.0602	0.176	--	--
DB-3-31.5	9/26/02	5.74	10.0U	25.0U	0.0544	0.309	0.160	0.840	--	--
DB-4-9.0	9/25/02	1,740	802	125U	0.300U	2.56	10.2	20.4	--	--
DB-4-11.5	9/25/02	728	100	25.0U	0.300U	1.31	11.0	56.3	--	--
DB-4-21.5	9/25/02	5.00U	42.6	25.0U	0.820	0.0674	0.500U	0.100U	--	--
DB-5-13.0	9/23/02	10,200	3,060	500U	23.0	145	105	445	--	--
DB-5-24.0	9/23/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.500U	0.100U	--	--
DB-6-16.5	9/25/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0516	0.216	--	--
DB-6-26.5	9/25/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0500U	0.100U	--	--
DB-7-11.5	9/24/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0500U	0.100U	5.00U	5.00U
DB-7-33.5	9/24/02	5.00U	10.0U	25.0U	0.117	0.0500U	0.0500U	0.100U	--	--

**SOIL ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. TOC (ft.)	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total		
								Xylenes (mg/kg)	Total VPH <sup>(1)</sup> (mg/kg)	Total EPH <sup>(2)</sup> (mg/kg)
DB-8-16.5	9/25/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0500U	0.100U	5.00U	5.00U
DB-9-16.0	9/24/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0500U	0.100U	--	--
DB-10-11.0	9/23/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0500U	0.100U	--	--
DB-11-10.5	9/26/02	5.00U	18.4	41.4	0.0300U	0.0500U	0.0500U	0.100U	--	--
Drum DB-5	9/23/02	381	128	89.5	0.721	4.62	3.72	16.9	--	--
Blank #1 <sup>(3)</sup>	9/24/02	50.0U	0.250U	0.500U	0.500U	0.500U	0.500U	1.00U	--	--
Blank #2 <sup>(3)</sup>	9/24/02	50.0U	0.250U	0.500U	0.500U	0.500U	0.500U	1.00U	--	--
Blank #3 <sup>(3)</sup>	9/26/02	50.0U	0.250U	0.500U	0.500U	0.500U	0.500U	1.00U	--	--
Blank #4 <sup>(3)</sup>	9/26/02	50.0U	0.250U	0.500U	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #1 <sup>(3)</sup>	9/23/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #2 <sup>(3)</sup>	9/25/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #3 <sup>(3)</sup>	9/24/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #4 <sup>(3)</sup>	9/24/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #5 <sup>(3)</sup>	9/26/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #6 <sup>(3)</sup>	9/26/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Tip Blank #7 <sup>(3)</sup>	9/26/02	50.0U	--	--	0.500U	0.500U	0.500U	1.00U	--	--

(-) = sample not analyzed.

1 - Total Volatile Petroleum Hydrocarbons (VPH) by WDOE policy method VPH reported is total for C5 through C13 Aliphatics and Aroma

2 - Total Extractable Petroleum Hydrocarbons (EPH) by WDOE policy method EPH reported is total for C8 through C34 Aliphatics and Aro

3 - Results are for water and reports as ug/L

U - Analyte was not detected at or above the reported value.

**SOIL ANALYTICAL RESULTS**  
**TOTAL METALS**  
Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Lead <sup>(1)</sup> (mg/kg)
DB-2-14	9/24/02	0.500U	4.53	80.2	0.500U	48.6	0.200U	2.61	0.935	--
DB-2-16.5	9/24/02	--	--	--	--	--	--	--	--	2.56
DB-3-11	9/26/02	0.500U	2.27	49.6	0.500U	29.2	0.200U	6.89	0.500U	--
DB-3-31.5	9/26/02	--	--	--	--	--	--	--	--	6.46
DB-4-11.5	9/25/02	0.500U	3.18	82.1	0.500U	33.1	0.200U	3.78	0.500U	--
DB-4-21.5	9/25/02	--	--	--	--	--	--	--	--	2.00
DB-5-13	9/23/02	0.500U	1.73	49.9	0.500U	30.4	0.200U	8.72	0.500U	--
DB-5-24	9/23/02	--	--	--	--	--	--	--	--	1.29
DB-6-16.5	9/25/02	0.500U	1.87	52.0	0.500U	25.7	0.200U	2.44	0.500U	--
DB-6-26.5	9/25/02	--	--	--	--	--	--	--	--	3.32
DB-7-11.5	9/24/02	0.500U	3.18	58.4	0.500U	25.8	0.200U	2.04	0.500U	--
DB-7-33.5	9/24/02	--	--	--	--	--	--	--	--	10.5
DB-8-16.5	9/25/02	0.500U	1.19	33.6	0.500U	22.8	0.200U	1.62	0.500U	--
DB-9-16	9/24/02	--	--	--	--	--	--	--	--	1.82
DB-10-11	9/23/02	--	--	--	--	--	--	--	--	3.41
Drum DB-5	9/23/02	--	--	--	--	--	--	--	--	1.87

**SOIL ANALYTICAL RESULTS**  
**TOTAL METALS**  
Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Lead <sup>(1)</sup> (mg/kg)
Blank #1 <sup>(2)</sup>	9/24/02	0.0010U	0.0010U	0.010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Blank #2 <sup>(2)</sup>	9/24/02	0.0010U	0.0010U	0.010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Blank #3 <sup>(2)</sup>	9/26/02	0.0010U	0.0010U	0.010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U
Blank #4 <sup>(2)</sup>	9/26/02	0.0010U	0.0010U	0.010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U	0.0010U

<sup>(1)</sup> From analysis of total lead in soil separate of RCRA metals by EPA 6000/7000 series methods

<sup>(2)</sup> Results are for water, and reported as ug/L.

U - Analyte was not detected at or above the reported value.

**SOIL ANALYTICAL RESULTS  
POLYNUCLEAR AROMATIC HYDROCARBONS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Benzo (a) anthracene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	1- Methylnaphthalene (mg/kg)	2- Methylnaphthalene (mg/kg)	Naphthalene (mg/kg)
DB-2-14	9/24/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0106
DB-3-11	9/26/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0206	0.0100U	0.0100U
DB-4-9	9/25/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	2.53	6.03	2.42
DB-5-13	9/23/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	16.3	31.5	25.9
DB-6-16.5	9/25/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0106	0.0179
DB-7-11.5	9/24/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U
DB-8-16.5	9/25/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U

U - Analyte was not detected at or above the reported value.

**SOIL ANALYTICAL RESULTS  
VOLATILE ORGANIC COMPOUNDS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Acetone (mg/kg)	Benzene (mg/kg)	n-Butylbenzene (mg/kg)	Ethylbenzene (mg/kg)	Isopropylbenzene (mg/kg)	p-Isopropyltoluene (mg/kg)	Methylene chloride (mg/kg)	Naphthalene (mg/kg)	n-Propylbenzene (mg/kg)	Toluene (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	m,p- Xylenes (mg/kg)	o-Xylenes (mg/kg)	Total Xylenes (mg/kg)
DB-2-14.0	9/24/02	0.0507	0.0015U	0.005U	0.004U	0.005U	0.005U	0.00469	0.005U	0.005U	0.0015U	0.00879	0.005U	ANR	ANR	0.010U
DB-3-11.0	9/26/02	0.030U	0.0015U	0.005U	0.004U	0.005U	0.005U	0.0035U	0.005U	0.005U	0.0015U	0.005U	0.005U	ANR	ANR	0.010U
DB-4-9.0	9/25/02	5.00U	0.500U	0.963	1.09	0.500U	0.500U	5.00U	1.70	1.22	0.500U	9.39	2.84	6.58	1.04	--
DB-5-13.0	9/23/02	100U	29.2	48.6	180	16.3	15.3	100U	66.0	68.5	339	472	158	ANR	ANR	1,050
DB-6-16.5	9/25/02	0.0625	0.0171	0.005U	0.0129	0.005U	0.005U	0.0035U	0.0431	0.005U	0.0266	0.0586	0.0117	ANR	ANR	0.118
DB-7-11.5	9/24/02	0.0300U	0.0015U	0.005U	0.004U	0.005U	0.005U	0.00488	0.005U	0.005U	0.0015U	0.005U	0.005U	ANR	ANR	0.100U
DB-8-16.5	9/25/02	0.0300U	0.0015U	0.005U	0.005U	0.005U	0.005U	0.0035U	0.005U	0.005U	0.0015U	0.005U	0.005U	ANR	ANR	0.010U
BLANK #1 <sup>(1)</sup>	9/24/02	25.0U	1.00U	1.00U	1.00U	1.00U	1.00U	5.00U	1.00U	1.00U	1.00U	1.00U	1.00U	2.00U	1.00U	--
BLANK #2 <sup>(1)</sup>	9/24/02	25.0U	1.00U	1.00U	1.00U	1.00U	1.00U	5.00U	1.00U	1.00U	1.00U	1.00U	1.00U	2.00U	1.00U	--
BLANK #3 <sup>(1)</sup>	9/26/02	25.0U	1.00U	1.00U	1.00U	1.00U	1.00U	5.00U	1.00U	1.00U	1.00U	1.00U	1.00U	2.00U	1.00U	--
BLANK #4 <sup>(1)</sup>	9/26/02	25.0U	1.00U	1.00U	1.00U	1.00U	1.00U	5.00U	1.00U	1.00U	1.00U	1.00U	1.00U	2.00U	1.00U	--

ANR - Analyte not reported or reported as total value

U - Analyte was not detected at or above the reported value.

Note: Only those analytes detected in the samples listed at or above the laboratory reporting limits have been included in this table, complete analytical laboratory reports are included as Appendix \_\_\_\_.

<sup>(1)</sup> Results are for water, and reported as ug/L.



**SOIL ANALYTICAL RESULTS  
SEMIVOLATILE ORGANIC COMPOUNDS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Benzyl alcohol (mg/kg)	2-Methylnaphthalene (mg/kg)	Naphthalene (mg/kg)
DB-2-14	9/23/02	4.99	0.330U	0.330U
DB-3-11	9/26/02	6.34	0.330U	0.330U
DB-4-9	9/25/02	0.330U	0.330U	0.330U
DB-5-13	9/23/02	9.27	31.8	40.0
DB-6-16.5	9/25/02	0.330U	0.330U	0.330U
DB-7-11.5	9/24/02	7.71	0.330U	0.330U
DB-8-16.5	9/25/02	0.330U	0.330U	0.330U
Blank #1 <sup>(1)</sup>	9/24/02	10.00U	10.00U	10.00U
Blank #2 <sup>(1)</sup>	9/24/02	10.00U	10.00U	10.00U
Blank #3 <sup>(1)</sup>	9/26/02	10.00U	10.00U	10.00U
Blank #4 <sup>(1)</sup>	9/26/02	10.00U	10.00U	10.00U

<sup>(1)</sup> Results are for water, and reported as ug/L.

U - Analyte was not detected at or above the reported value.

Note: Only those analytes detected in the samples listed at or above the laboratory reporting limits have been included in this table, complete analytical laboratory reports are included as Appendix \_\_\_\_.

**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	TPH-G (µg/l)	TPH-D (µg/l)	TPH-O (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)
DVP-1	9/12/02	98,100	--	--	7,640	18,600	2,660	15,000
DVP-2	9/12/02	107,000	--	--	13,500	19,100	2,140	12,400
DVP-4*	9/12/02	102,000	--	--	12,300	17,400	1,980	11,500

(--)= sample not analyzed.

U - The analyte was not detected at or above the reported value.

\* = DVP-4 samples were duplicate of DVP-2

**SOIL ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. TOC (ft.)	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total VPH <sup>(1)</sup> (mg/kg)	Total EPH <sup>(2)</sup> (mg/kg)
DVP-1-1	9/12/02	1,640	333	ND	0.554	ND	13.3	49.7	1,020	382
DVP-1-6	9/12/02	4,600	1,360	31.8	7.72	84.6	41.9	175	NA	NA
DVP-2-1	9/12/02	5.00U	10.0U	25.0U	0.300U	0.500U	0.500U	0.100U	5.00U	5.00U
DVP-2-6	9/12/02	8,850	2,030	52.4	14.0	157	112	523	4,980	1,950
DVP-4-6*	9/12/02	5,860	2,170	65.0	10.7	101	75.4	370	4,590	2,200
Source Blank <sup>(3)</sup>	9/12/02	50.00U	--	--	0.500U	0.500U	0.500U	1.00I	--	--
Rinsate Blank <sup>(3)</sup>	9/12/02	50.00U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Field Blank <sup>(3)</sup>	9/12/02	50.00U	--	--	0.500U	0.500U	0.500U	1.00U	--	--
Trip Blank <sup>(3)</sup>	9/12/02	50.00U	--	--	0.586	0.500U	0.500U	1.00U	--	--

(--)= sample not analyzed.

1 - Total Volatile Petroleum Hydrocarbons (VPH) by WDOE policy method VPH reported is total for C5 through C13 Aliphatics and Aromatics.

2 - Total Extractable Petroleum Hydrocarbons (EPH) by WDOE policy method EPH reported is total for C8 through C34 Aliphatics and Aromatics.

3 - Results are for water and reported as ug/L

U - The analyte was not detected at or above the reported value.

\* = DVP-4 samples were duplicate of DVP-2

**SOIL ANALYTICAL RESULTS**  
**TOTAL METALS**  
Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. TOC (ft.)	Date	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)
DVP-1-1	9/12/02	0.658U	3.72	88.6	0.658U	41.1	0.200U	6.00	0.658U
DVP-2-1	9/12/02	0.500U	2.28	81.60	0.500U	37.50	0.200U	2.91	0.500U
DVP-2-6	9/12/02	0.694U	2.46	46.1	0.694U	27.1	0.200U	5.04	0.694U
DVP-4-6*	9/12/02	0.500U	2.45	47.8	0.500U	31.6	0.200U	4.35	0.500U

U - The analyte was not detected at or above the reported value.

\* = DVP-4 samples were duplicate of DVP-2

**SOIL ANALYTICAL RESULTS  
VOLATILE ORGANIC COMPOUNDS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	DVP-1-1 (B210261-01)	DVP-1-1 (B210261-01RE1)	DVP-1-1 (B210261-01RE2)	DVP-2-1 (B210261-03)
Date Sampled	9/12/02	9/12/02	9/12/02	9/12/02
Reporting Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
n-Butylbenzene	33.7	23.7	36.8	0.0050U
sec-Butylbenzene	5.74	4.53	10.0U	0.0050U
Ethylbenzene	50.6	41.3	58.0	0.0040U
Isopropylbenzene	7.60	6.06	10.0U	0.0050U
p-Isopropyltoluene	14.3	8.94	13.1	0.0050U
Naphthalene	23.0	16.7	26.8	0.0050U
n-Propylbenzene	47.1	29.9	42.1	0.0050U
Toluene	2.42	2.00U	10.0U	0.00176
1,2,4-Trimethylbenzene	149	189	276	0.0050U
1,3,5-Trimethylbenzene	64.2	58.3	79.2	0.0050U
Total Xylenes	211	229	330	0.100U

U - The analyte was not detected at or above the reported value.

Note: Only those analytes detected in the samples listed at or above the laboratory reporting limits have been included in this table, complete analytical laboratory reports are included as Appendix \_\_\_\_.

**SOIL ANALYTICAL RESULTS  
SEMIVOLATILE ORGANIC COMPOUNDS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

<b>Sample I.D.</b>	<b>Date</b>	<b>2-Methylnaphthalene (mg/kg)</b>	<b>Naphthalene (mg/kg)</b>
<b>DVP-1-1 (B210261-01)</b>	09/12/02	2.94	1.53

U - The analyte was not detected at or above the reported value.

Note: Only those analytes detected in the samples listed at or above the laboratory reporting limits have been included in this table, complete analytical laboratory reports are included as Appendix \_\_\_\_.

**SOIL ANALYTICAL RESULTS**  
**POLYNUCLEAR AROMATIC HYDROCARBONS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	DVP-1-1 (B210261-01)	DVP-2-1 (B210261-01)
Date Sampled	9/12/2002	9/12/2002
Reporting Units	mg/kg	mg/kg
Benzo (a) anthracene	0.010U	0.010U
Benzo (a) pyrene	0.010U	0.010U
Benzo (b) fluoranthene	0.010U	0.010U
Benzo (k) fluoranthene	0.010U	0.010U
Chrysene	0.010U	0.010U
Dibenz (a,h) anthracene	0.010U	0.010U
Indeno (1,2,3-cd) pyrene	0.010U	0.010U
1- Methylnaphthalene	1.92	0.010U
2- Methylnaphthalene	3.86	0.010U
Naphthalene	1.82	0.010U

U - The analyte was not detected at or above the reported value.

## SOIL ANALYTICAL RESULTS

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. TOC (ft.)	Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-O (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total		
								Xylenes (mg/kg)	Total VPH <sup>(1)</sup> (mg/kg)	Total EPH <sup>(2)</sup> (mg/kg)
DP-1-16	9/18/02	5.00U	10.0U	25.0U	0.0300U	0.0500U	0.0568	0.121	5.00U	8.64
DP-2-14	9/18/02	5.00U	10.0U	25.0U	0.0571	0.0500U	0.0500U	0.100U	5.00U	5.00U
DP-2-20	9/18/02	--	--	--	--	--	--	--	5.00U	5.00U
DP-3-12	9/20/02	1,140	1,060	25.0U	2.39	2.01	10.3	20.3	1,410	685
DP-4-20	9/20/02	90.9	18.4	25.0U	0.131	0.248	0.851	3.34	60.6	5.00U
DP-5-14	9/20/02	8,160	1,200	25.0U	17.4	98.2	97.2	569	3,440	355
DP-6-22	9/20/02	7,750	88.7	25.0U	33.0	242	83.7	369	2,050	259
DP-7-20	9/20/02	329	788	25.0U	0.844	4.25	2.61	10.3	326	1,890
Tip Blank <sup>(3)</sup>	9/18/02	50.00U	--	--	0.500U	0.500U	0.500U	1.00U	--	--

(--)= sample not analyzed.

1 - Total Volatile Petroleum Hydrocarbons (VPH) by WDOE policy method VPH reported is total for C5 through C13 Aliphatics and Aromatics.

2 - Total Extractable Petroleum Hydrocarbons (EPH) by WDOE policy method EPH reported is total for C8 through C34 Aliphatics and Aromatics.

3 - Results are for water and reported as ug/L

ND = not detected above laboratory detection limits. Laboratory detection limits not available or reported.

U - The analyte was not detected at or above the reported value.



**SOIL ANALYTICAL RESULTS**  
**TOTAL METALS**  
Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. TOC (ft.)	Date	Silver (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Mercury (mg/kg)	Lead (mg/kg)	Selenium (mg/kg)	Lead <sup>(1)</sup> (mg/kg)
DP-1-16	9/18/02	0.500U	2.33	57.1	0.500U	30.5	0.200U	1.92	0.500U	-
DP-2-14	9/18/02	0.500U	3.58	83.9	0.500U	36.2	0.200U	2.39	0.500U	-
DP-2-20	9/20/02	-	-	-	-	-	-	-	-	1.85
DP-3-12	9/20/02	0.500U	2.66	79.0	0.572	29.5	0.200U	4.15	0.500U	-
DP-4-18	9/20/02	-	-	-	-	-	-	-	-	3.36
DP-4-20	9/20/02	0.500U	1.69	29.0	0.500U	12.0	0.200U	1.78	0.500U	-
DP-5-14	9/20/02	-	-	-	-	-	-	-	-	3.53
DP-6-14	9/20/02	-	-	-	-	-	-	-	-	5.13
DP-6-22	9/20/02	0.500U	1.65	60.4	0.873	22.6	0.200U	4.74	0.500U	-
DP-7-10	9/20/02	-	-	-	-	-	-	-	-	5.40
DP-7-20	9/20/02	0.500U	2.14	74.9	0.500U	29.6	0.200U	9.48	0.500U	-

<sup>(1)</sup> From analysis of total lead in soil separate of RCRA metals by EPA 6000/7000 series methods

**SOIL ANALYTICAL RESULTS  
POLYNUCLEAR AROMATIC HYDROCARBONS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Benzo (a) anthracene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)	1- Methylnaphthalene (mg/kg)	2- Methylnaphthalene (mg/kg)	Naphthalene (mg/kg)
DP-1-16	9/18/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U
DP-2-14	9/18/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U
DP-3-12	9/20/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	1.96	3.20	0.207
DP-4-20	9/20/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0354	0.0680	0.0231
DP-5-14	9/20/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.744	1.28	0.210
DP-6-22	9/20/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	1.86	3.70	0.863
DP-7-20	9/20/02	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	0.0100U	7.50	14.1	4.99

**SOIL ANALYTICAL RESULTS  
VOLATILE ORGANIC COMPOUNDS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Benzene (mg/kg)	n-Butylbenzene (mg/kg)	sec-Butylbenzene (mg/kg)	Ethylbenzene (mg/kg)	Isopropylbenzene (mg/kg)	p-Isopropyltoluene (mg/kg)	Naphthalene (mg/kg)	n-Propylbenzene (mg/kg)	Toluene (mg/kg)	1,2,4- Trimethylbenzene (mg/kg)	1,3,5- Trimethylbenzene (mg/kg)	Total Xylenes (mg/kg)
DP-1-16	9/18/02	0.00336	0.00500U	0.00500U	0.00400U	0.00500U	0.00500U	0.00500U	0.00500U	0.00150U	0.00500U	0.00500U	0.0100U
DP-2-14	9/18/02	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.0100U
DP-3-12	9/20/02	0.100U	0.170	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.100U	0.587	0.184	0.193
DP-4-20	9/20/02	0.100U	0.813	0.100U	0.233	0.100U	0.281	0.421	0.395	0.100U	3.09	0.947	1.17
DP-5-14	9/20/02	5.35	14.5	3.35	32.3	3.86	6.74	13.4	22.0	59.5	65.2	27.9	137
DP-5-14 RE	9/20/02	5.23	13.3	4.00U	34.6	4.00U	5.33	13.7	17.6	69.1	94.6	28.5	214
DP-6-22	9/20/02	52.2	28.7	1.00U	112	8.03	9.96	40.2	39.0	423	214	68.0	568
DP-6-22 RE	9/20/02	51.8	30.4	20.0U	110	20.0U	20.0U	42.7	37.7	448	236	60.9	629
DP-7-20	9/20/02	1.39	2.75	0.100U	4.83	0.503	0.985	2.81	2.64	9.49	15.4	4.57	26.8
DP-7-20 RE	9/20/02	2.00U	2.82	2.00U	4.77	2.00U	2.00U	2.88	2.49	8.67	16.1	4.92	27.9
Tip Blank <sup>(1)</sup>	9/18/02	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	2.00U

1 - Results are for water and reported as ug/L

1 - Results are for sum of m, p and o - Xylene isomers

**SOIL ANALYTICAL RESULTS  
SEMIVOLATILE ORGANIC COMPOUNDS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	Benzoic Acid (mg/kg)	Fluorene (mg/kg)	Isophorone (mg/kg)	Di-n-octyl phthalate (mg/kg)	2-Methylnaphthalene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Phenol (mg/kg)
DP-1-16	9/18/02	1.00U	0.330U	0.330U	0.330U	0.330U	0.330U	0.330U	0.515
DP-2-14	9/18/02	1.01	0.330U	0.330U	0.330U	0.330U	0.330U	0.330U	1.05
DP-3-12	9/20/02	1.00U	0.330U	0.330U	0.575	9.54	3.05	2.56	2.15
DP-4-20	9/20/02	1.00U	0.330U	0.330U	0.330U	0.330U	0.330U	0.330U	0.330U
DP-5-14	9/20/02	1.00U	1.80	0.666	0.330U	20.1	11.5	2.92	0.330U
DP-6-22	9/20/02	1.00U	0.330U	0.330U	0.339	20.0	17.6	1.37	0.653
DP-7-20	9/20/02	1.00U	0.330U	0.330U	0.330U	4.27	1.85	0.827	1.41

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>VP-1</b>										
	Mar-91	NA	--	--	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--	--	--	--
	Jun-00	5,000	75,600	1,100U	21.60	14.4	32.8	435	--	--
	Jul-02	35,000	18,000	1,500	120	820	280	4,600	--	--
	Oct-02	27,300	7.50	0.598	170	756	334	4,820	--	--
<b>VP-2</b>										
	Mar-91	--	--	--	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--
	Dec-99	5,980	29,900	2,500U	935	345	43.80	305	--	--
	Jun-00	2,030	2,810	1,100U	45.90	16.2	3,000U	196	--	--
	Jul-02					UTL				
	Oct-02					UTA				
<b>VP-3</b>										
	Jul-02					DRY				
	Oct-02					DRY				

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>VP-4</b>										
	Mar-91	--	--	--	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--	--	--	--
	Jun-00	26,400	1,850	1,100U	1,020	3,270	890	6,160	--	--
	Jul-02	89,000	78,000	9,700U	7,300	7,500	1,900	13,000	--	--
	Oct-02					UTA				
<b>VP-5 (MW-5)</b>										
	Mar-91	--	1,850	ND	5,300	1,300	900	4,600	--	--
	Oct-95	--	--	--	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--
	Dec-99	23,400	2,490	5,000U	841	191	1,480	7,720	--	--
	Jun-00	25,600	1,340	1,120U	793	155	1,380	5,690	--	--
	Jul-02					UTL				
	Oct-02	15,900	3.90	500U	318	49.3	880	1,870	--	--
<b>VP-6</b>										
	Jul-02					SPH				
	Oct-02					SPH				

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>VP-7 (MW-3)</b>										
	Mar-91	0.03						3,500	--	--
	Oct-95	33,000	--	--	11,700	2,230	1,070	4,130	--	--
	Jan-97	51,000	--	--	12,400	5,200	990	RA	3,700	1,500
	Apr-97	53,000	--	--	11,100	4,800	1,400	RA	5,400	2,200
	Jul-97	37,000	--	--	11,000	3,700	1,500	RA	5,200	1,900
	Nov-97	34,000	--	--	15,900	3,600	1,500	RA	4,800	1,800
	Dec-99	73,400	3,310	5,000U	16,800	9,670	1,890	10,500	--	--
	Jun-00	54,400	931	1,460U	10,000	8,230	1,380	7,470	--	--
	Jul-02	60,000	5,800	580	8,200	7,000	1,500	8,300	--	--
	Oct-02	71,600	5.16	0.510	11,100	5,880	1,940	10,800	--	--
<b>VP-8 (MW-7)</b>										
	Mar-91	0.01						1,100	--	--
	Oct-95	3,100	--	--	2.50	1.20	3.00	16.0	--	--
	Jan-97	8,000	--	--	816	824	26.0	RA	412	182
	Apr-97	18,000	--	--	605	786	119	RA	1,260	514
	Jul-97	9,100J	--	--	96.0	246	52.0	RA	706	274
	Nov-97	830J	--	--	5.60	7.00	11.0	RA	23.0	9.60
	Dec-99	7,640	2,780	5,000U	540	927	201	1,430	--	--
	Jun-00	233	2,280	1,100U	1.10	1.81	1.95	7.99	--	--
	Jul-02	1,500	1,800	420	9.40	9.20	34.0	50.0	--	--
	Oct-02	552	1.83	500U	9.75	1.45	4.25	5.73	--	--

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>VP-9</b>										
	Mar-91	--	--	--	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--
	Dec-99	118	2,500U	5,000U	0.50U	0.50U	0.50U	0.50U	--	--
	Jun-00	474	1,420	1,130U	4.97	ND	55.6	4.80	--	--
	Jul-02					UTL				
	Oct-02	1,910	13.2	500U	11.3	2.62	8.86	14.7	--	--
<b>MW-4</b>										
102.07	Mar-91	--	--	--	10,000	12,000	500	9,800	--	--
	Oct-95	95,000	--	--	19,600E	12,000	2,070	10,800	--	--
	Jan-97	88,000	--	--	12,900	12,400	1,400	RA	7,500	3,100
	Apr-97	100,000	--	--	14,300	14,500	1,700	RA	7.80	3,200
	Jul-97	120,000	--	--	19,600	19,700	2,100	RA	9,300	3,800
	Nov-97	89,000	--	--	17,500	16,000	1,900	RA	8,800	3,400
	Dec-99	73,300	3,340	5,000U	13,700	13,500	1,830	11,000	--	--
	Jun-00	74,400	3,390	1,240U	14,400	9,440	1,840	10,800	--	--
	Jul-02	83,000	10,000	680	11,000	9,900	1,800	11,000	--	--
	Oct-02	110,000	9.86	0.697	14,500	11,600	2,630	15,200	--	--
<b>DUP</b>	Oct-02	92,400	7.10	500U	12,400	9,980	2,090	12,200	--	--



**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>MW-6</b>										
	Mar-91	--	--	--	25,000	29,000	2,500	19,000	--	--
	Oct-95	--	--	--	12,000E	13,800E	920	5,680	4,170	1,520
	Jan-97	--	--	--	7,290	12,400	2,340	--	14,200	5,600
	Apr-97	--	--	--	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--
	Jul-02	31,000	29,000	10,000U	8,900	1,600	820	4,200	ANR	ANR
	Oct-02					UTA				
<b>MW-9</b>										
	Mar-91	--	--	--	1,600	2,900	250	3,100	--	--
	Oct-95	3,400	--	--	3,520	70J	200U	10,800	--	--
	Jan-97	4,400	--	--	2,600	53.0	310	RA	7,500	3,100
	Apr-97	9,100	--	--	2,980	173	413	RA	7,800	3,200
	Jul-97	2,200J	--	--	2,680	127	460	RA	9,300	3,800
	Nov-97	5,000	--	--	2,010	80.0	334	RA	8,800	3,400
	Dec-99	4,460	8,510	5,000U	831	22.4	274	138	--	--
	Jun-00	4,740	6,070	500U	786	26.0	274	156	--	--
	Oct-02	6,380	43.6	0.671	493	13.0	230	107	--	--

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>MW-10</b>										
	Mar-91	--	--	--	5.00U	5.00U	5.00U	5.00U	--	--
	Oct-95	780	--	--	1.80	2.90J	0.82J	5.60	--	--
	Jan-97	180	--	--	1.50	1.00U	1.00U	RA	2.00U	1.00U
	Apr-97	420	--	--	5.10	1.00	1.00U	RA	2.00J	1.40U
	Jul-97	1,100	--	--	10.0	2.10	2.40	RA	3.80	0.54J
	Nov-97	1,000	--	--	4.20	2.00	4.80	RA	1.60	0.60J
	Dec-99	618	353	5,000U	7.02	0.91U	0.85U	4.22U	--	--
	Jun-00	99.2	2,500U	500U	1.56	ND	ND	ND	--	--
	Jul-02	240	320	600	2.50	0.500U	1.00U	1.50U	--	--
	Oct-02	490	0.667	500U	3.42	0.500U	1.34	5.00	--	--
<b>MW-11</b>										
	Jul-02	50.0U	250U	250U	0.500U	0.500U	0.500U	1.50U	--	--
	Oct-02	50.0U	250U	500U	0.500U	0.500U	0.500U	1.00U	--	--
<b>MW-12</b>										
	Oct-02	50.0U	250U	500U	0.516	0.869	0.500U	1.00U	--	--
<b>MW-13</b>										
	Oct-02					DRY				
<b>MW-14</b>										
	Oct-02					UTA				
<b>MW-15</b>										
	Oct-02					UTA				
<b>MW-16</b>										
	Oct-02					UTA				

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
MW-17	Oct-02					UTA				
RW-2	Mar-91	--	--	--	19,000	46,000	2,500	120,000	--	--
	Oct-95	--	--	--	--	--	--	--	--	--
	Jan-97	390	--	--	31.0	14.0	6.00	RA	31.0	18.0
	Apr-97	11,000	--	--	189	243	99.0	RA	540	203
	Jul-97	24,000	--	--	4,230	2,490	389	RA	1,960	772
	Nov-97	4,400	--	--	3,140	1,200	338	RA	1,670	595
	Dec-99	--	--	--	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--	--	--	--
	Jul-02					UTL				
	Oct-02	1,380	0.988	500U	90.5	8.05	29.2	31.5	--	--
RW-3	Jul-02					UTA				
	Oct-02					UTA				
RW-4	Jul-02	990	15,000	2,000U	62.0	1.30	32.0	7.00	--	--
	Oct-02	3,160	8.93	0.939	59.8	2.50	40.4	15.6	--	--

**Groundwater  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	TPH-G (mg/l)	TPH-D (mg/l)	TPH-O (mg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	m,p- xylenes (mg/l)	o-xylenes (mg/l)
<b>RW-5</b>										
	Jul-02					UTL				
	Oct-02	3,370	84.9	3.65	696	67.2	63.0	408	--	--
<b>Trip Blank LB</b>										
	Oct-02	50.0U			0.500U	0.500U	0.500U	1.00U	--	--

1 - Well designations have historically varied. The designations used here are consistent with the designations shown on Figure 1 (well designations in () indicate previous labeling)

2 - Date groundwater samples were collected. Mar-91 from Ecology and Environment, Oct-95 through Nov-97 from Ecology, Dec-99 - Jun-00 from Farallon.

(-- ) Sample not analyzed.

ANR- Analyte not reported or reported as total value

DRY - Insufficient groundwater to sample

DUP - Duplicate samples

E - The analyte was detected at a concentration above the linear response range of the instrument, value reported is an estimate.

ND - Not detected at or above laboratory detection limits. Laboratory detection limits not available or reported.

P - The analyte was detected above the instrument detection limit but below the established minimum quantitation limit.

RA - Reported as m,p and o-xylene, total xylene not reported.

SPH - No sample collected due to the presence of separate phase hydrocarbons

U - The analyte was not detected at or above the reported value.

UTA- No sample collected, unable to access well due to parked vehicle.

UTL - No sample collected, unable to locate well

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>VP-1</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--
	Jun-00	33.4	33.9	--	--	--	--
	Jul-02	--	22.9	--	--	--	--
	Oct-02	--	1.80	--	--	--	--
<b>VP-2</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	262	61.7	--	--	--	--
	Jun-00	37.8	9.87	--	--	--	--
	Jul-02				UTL		
	Oct-02				UTA		
<b>VP-3</b>							
	Jul-02				DRY		
	Oct-02				DRY		

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>VP-4</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--
	Jun-00	9.12	4.66	--	--	--	--
	Jul-02	--	28.0	--	--	--	--
	Oct-02				UTA		
<b>VP-5 (MW-5)</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	6.76	2.57	--	--	--	--
	Jun-00	3.75	2.66	--	--	--	--
	Jul-02				UTL		
	Oct-02	--	2.29	--	--	--	--
<b>VP-6</b>							
	Jul-02				SPH		
	Oct-02				SPH		

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>VP-7 (MW-3)</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	5.60P	--	--	--	--	--
	Jan-97	9.90	--	--	--	--	--
	Apr-97	3.40	--	--	--	--	--
	Jul-97	4.30J	--	--	--	--	--
	Nov-97	5.00	--	--	--	--	--
	Dec-99	5.91	2.11	7.76	11.7	0.10U	13.4
	Jun-00	--	2.13	--	--	--	--
	Jul-02	--	25.0	--	--	--	--
	Oct-02	--	2.40	--	--	--	--
<b>VP-8 (MW-7)</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	3.40P	--	--	--	--	--
	Jan-97	3.70	--	--	--	--	--
	Apr-97	24.6	--	--	--	--	--
	Jul-97	2.30	--	--	--	--	--
	Nov-97	12.7	--	--	--	--	--
	Dec-99	40.6	5.02	--	--	--	--
	Jun-00	17.7	7.95	--	--	--	--
	Jul-02	--	11.4	--	--	--	--
	Oct-02	--	1.93	--	--	--	--

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>VP-9</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	15.0	1.00U	420	9400	9200	34000
	Jun-00	15.2	1.00U	--	--	--	--
	Jul-02	--	--	--	--	--	--
	Oct-02	--	1.00U	--	--	--	--
<b>MW-4</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	30.6	--	--	--	--	--
	Jan-97	36.5	--	--	--	--	--
	Apr-97	20.7	--	--	--	--	--
	Jul-97	19.5	--	--	--	--	--
	Nov-97	16.2	--	--	--	--	--
	Dec-99	19.8	9.86	10.5	6.15	0.10U	0.20U
	Jun-00	21.4	9.72	--	--	--	--
	Jul-02	--	15.5	--	--	--	--
	Oct-02	--	10.7	--	--	--	--
DUP	Oct-02	--	9.61	--	--	--	--



**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>MW-6</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--
	Jun-00	--	--	--	--	--	--
	Jul-02	--	5.10	--	--	--	--
	Oct-02				UTA		
<b>MW-9</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	4.60P	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	6.80	--	--	--	--	--
	Jul-97	8.60J	--	--	--	--	--
	Nov-97	3.30	--	--	--	--	--
	Dec-99	15.0	1.03	10.5	6.15	--	--
	Jun-00	7.86	1.59	--	--	--	--
	Oct-02	--	2.66	--	--	--	--

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>MW-10</b>							
	Mar-91	--	--	--	--	--	--
	Oct-95	1.00U	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	1.00U	--	--	--	--	--
	Jul-97	1.20J	--	--	--	--	--
	Nov-97	4.90	--	--	--	--	--
	Dec-99	1.00U	1.00U	5.12	2.00U	0.72	70.6
	Jun-00	ND	ND	--	--	--	--
	Jul-02	--	1.30	--	--	--	--
	Oct-02	--	1.00U	--	--	--	--
<b>MW-11</b>							
	Jul-02	--	1.20U	--	--	--	--
	Oct-02	--	1.00U	--	--	--	--
<b>MW-12</b>							
	Oct-02	--	--	--	--	--	--
<b>MW-13</b>							
	Oct-02				DRY		
<b>MW-14</b>							
	Oct-02				UTA		
<b>MW-15</b>							
	Oct-02				UTA		
<b>MW-16</b>							
	Oct-02				UTA		

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>MW-17</b>	Oct-02				UTA		
<b>RW-2</b>	Mar-91	--	--	--	--	--	--
	Oct-95	--	--	--	--	--	--
	Jan-97	--	--	--	--	--	--
	Apr-97	--	--	--	--	--	--
	Jul-97	--	--	--	--	--	--
	Nov-97	--	--	--	--	--	--
	Dec-99	--	--	--	--	--	--
	Jun-00						
	Jul-02						
	Oct-02	--	2.23	--	--	--	--
<b>RW-3</b>	Jul-02				UTA		
	Oct-02				UTA		

**GW Metal**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Lead (total) (µg/l)	Lead (dissolved) (µg/l)	Maganese (mg/l)	Ferrous Iron(mg/l)	Nitrate- Nitrogen (mg/l as N)	Sulfate (mg/l)
<b>RW-4</b>							
	Jul-02	--	3.30	--	--	--	--
	Oct-02	--	1.23	--	--	--	--
<b>RW-5</b>							
	Jul-02				UTL		
	Oct-02	--	3.91	--	--	--	--

1 - Well designations have historically varied. The designations used here are consistent with the designations shown on Figure 1 (well designations in () indicate previous labeling)

(--) = Sample not analyzed.

J - Analyte was positively identified. The associated numerical result is an estimate.

ND - Not detected and reporting limit not available.

P - The analyte was detected above the instrument detection limit but below the established minimum quantitation limit.

U - The analyte was not detected at or above the reported value.

UTA - No sample collected, unable to access well due to parked vehicle.

UTL - No sample collected, unable to locate well

DRY - Insufficient groundwater to sample

SPH - No sample collected due to the presence of separate phase hydrocarbons

VOCs  
GROUNDWATER ANALYTICAL RESULTS

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Isopropyl- benzene (ug/l)	n- Propylbenzene (ug/l)	1,3,5- Trimethyl benzene (ug/l)	1,2,4- Trimethyl benzene (ug/l)	p- Isopropyl toluene (ug/l)	n- butylbenzene (ug/l)	Naphthalene (ug/l)	Tetra- chloroethene (ug/l)	Tri- chloroethene (ug/l)	1,2- Dichloroethene (ug/l)	Chloroform (ug/l)
VP-1	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
VP-2	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
VP-3	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
VP-4	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
VP-5 (MW-5)	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
VP-6	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--

**VOCs**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Isopropyl- benzene (ug/l)	n- Propylbenzene (ug/l)	1,3,5- Trimethyl benzene (ug/l)	1,2,4- Trimethyl benzene (ug/l)	p- Isopropyl toluene (ug/l)	n- butylbenzene (ug/l)	Naphthalene (ug/l)	Tetra- chloroethene (ug/l)	Tri- chloroethene (ug/l)	1,2- Dichloroethene (ug/l)	Chloroform (ug/l)
<b>VP-7 (MW-3)</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>VP-8 (MW-7)</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>VP-9</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>MW-4</b>												
	Jul-02	46	140	500	1,800	1.00U	23	360	1.00U	1.00U	1.00U	1.00U
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>MW-6</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>MW-9</b>												
	Jun-00	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--

**VOCs**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Isopropyl- benzene (ug/l)	n- Propylbenzene (ug/l)	1,3,5- Trimethyl benzene (ug/l)	1,2,4- Trimethyl benzene (ug/l)	p- Isopropyl toluene (ug/l)	n- butylbenzene (ug/l)	Naphthalene (ug/l)	Tetra- chloroethene (ug/l)	Tri- chloroethene (ug/l)	1,2- Dichloroethene (ug/l)	Chloroform (ug/l)
MW-10	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
MW-11	Jul-02	2.00U	1.00U	1.00U	1.00U	1.00U	1.00U	2.00U	1.00U	1.00U	1.00U	1.00U
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
MW-12	Oct-02	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	1.00U	9.58	2.75	9.07	1.68
MW-13	Oct-02	--	--	--	--	--	--	--	--	--	--	--
MW-14	Oct-02	--	--	--	--	--	--	--	--	--	--	--
MW-15	Oct-02	--	--	--	--	--	--	--	--	--	--	--
MW-16	Oct-02	--	--	--	--	--	--	--	--	--	--	--
MW-17	Oct-02	--	--	--	--	--	--	--	--	--	--	--

**VOCs**  
**GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D. <sup>(1)</sup>	Date	Isopropyl- benzene (ug/l)	n- Propylbenzene (ug/l)	1,3,5- Trimethyl benzene (ug/l)	1,2,4- Trimethyl benzene (ug/l)	p- Isopropyl toluene (ug/l)	n- butylbenzene (ug/l)	Naphthalene (ug/l)	Tetra- chloroethene (ug/l)	Tri- chloroethene (ug/l)	1,2- Dichloroethene (ug/l)	Chloroform (ug/l)
<b>RW-2</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>RW-3</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>RW-4</b>												
	Jul-02	2.00U	3	1.00U	20	2	1	5	1.00U	1.00U	1.00U	1.00U
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>RW-5</b>												
	Jul-02	--	--	--	--	--	--	--	--	--	--	--
	Oct-02	--	--	--	--	--	--	--	--	--	--	--
<b>Trip Blank LB</b>												
	Oct-02	--	--	--	--	--	--	--	--	--	--	--

1 - Well designations have historically varied. The designations used here are consistent with the designations shown on Figure \_\_\_\_  
(well designations in () indicate previous labeling)

(--) Sample not analyzed.

DRY - Insufficient groundwater to sample

DUP - Duplicate samples

RA - Reported as o-xylene, total xylene not reported.

SPH - No sample collected due to the presence of separate phase hydrocarbons

U - The analyte was not detected at or above the reported value.

UTA - No sample collected, unable to access well due to parked vehicle.

UTL - No sample collected, unable to locate well



**SVOCs  
GROUNDWATER ANALYTICAL RESULTS**

Former Queen Anne Texaco 211577  
631 Queen Anne Avenue North  
Seattle, WA

Sample I.D.	Date	2-Methylnaphthalene (µg/l)	2,4-Dichlorophenol (µg/l)	Naphthalene (µg/l)	2-Methylphenol (µg/l)	4-Methylphenol (µg/l)	Bis(2-ethylhexyl) phthalate (µg/l)	Benzoic Acid (µg/l)
VP-1	7/24/02	84.0	80.0	160	13.0	18.0	31.0	10.0U
VP-7	7/24/02	69.0	28.0	420	5.0U	6.0	10.0U	34.0
VP-8	7/24/02	5.0U	5.0U	5.0U	5.0U	5.0U	10.0U	10.0U
MW-4	7/24/02	160	24.0	500	6.0	9.0	10.0U	10.0U
MW-10	7/24/02	5.0U	5.0U	5.0U	5.0U	5.0U	10.0U	10.0U
MW-11	7/24/02	5.0U	5.0U	5.0U	5.0U	5.0U	10.0U	10.0U
MW-12	10/18/02	10.0U	10.0U	10.0U	10.0U	10.0U	50.0U	20.0U
RW-4	7/24/02	5.0U	5.0U	5.0U	5.0U	5.0U	10.0U	10.0U

<sup>(1)</sup> Results are for water, and reported as ug/L.

U - Analyte was not detected at or above the reported value.

Note: Only those analytes detected in the samples listed at or above the laboratory reporting limits have been included in this table, complete analytical laboratory reports are included as Appendix \_\_\_\_.

DRAFT

QA/QC 11/13/2002