

June 2, 2003 Job #386765

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

RE: Event of April 23 and 24, 2003

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. 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

Table 1: Table 2:

Groundwater Monitoring Data and Analytical Results Separate Phase Hydrocarbon Thickness/Removal Data Groundwater Analytical Results - SVOC and PAH

Table 3: Table 4:

Groundwater Analytical Results - SVOC

Table 5:

Groundwater Analytical Results - Dissolved Metals Groundwater Analytical Results - Oxygenate Compounds

Table 6: Attachments:

Standard Operating Procedure - Groundwater Sampling

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

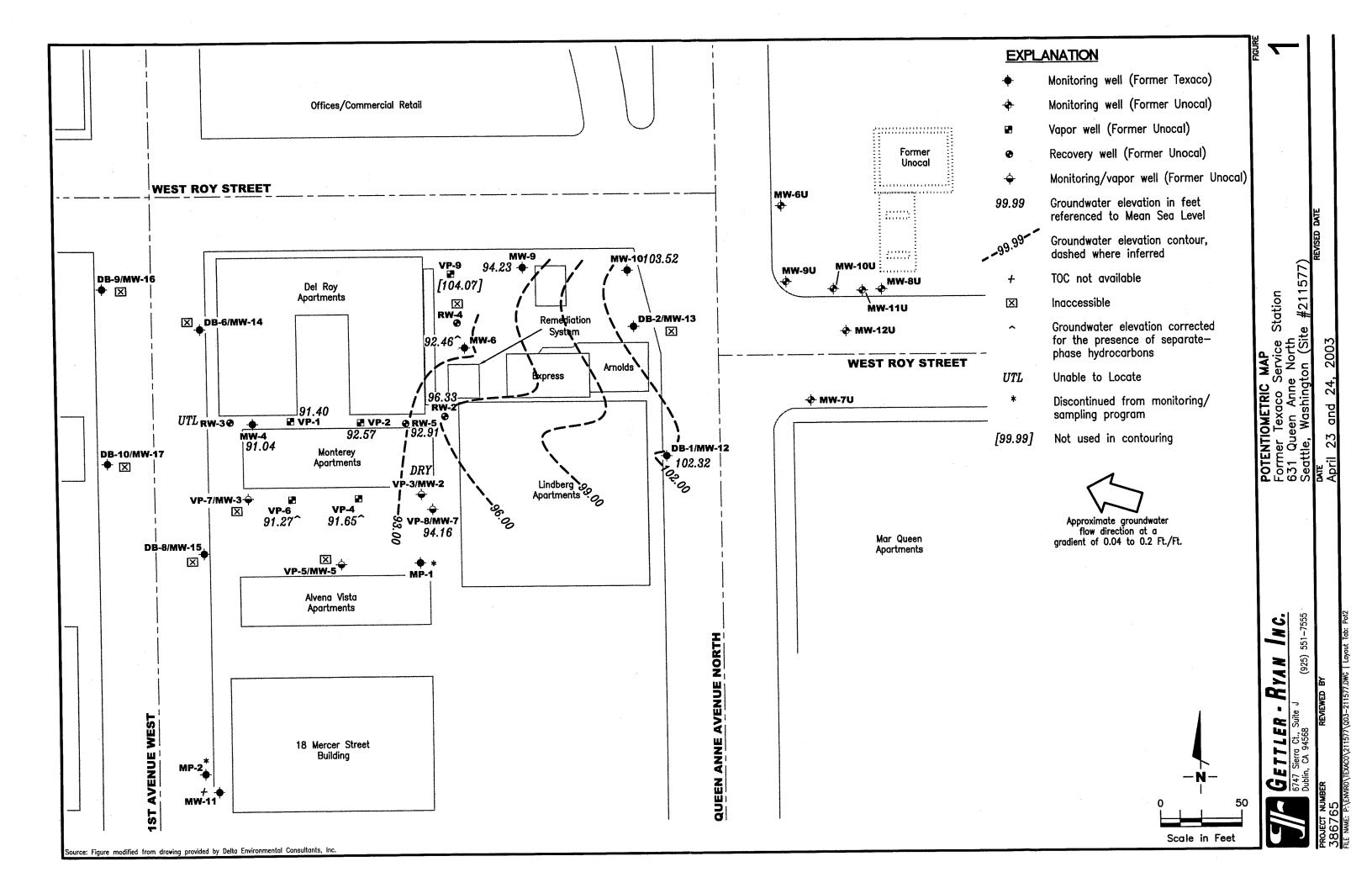


Table 1 Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station (Site #211577)

					Seamle, was	mikron					
WELL ID/	DATE	DTW	GWE	SPHT	TPH-D	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
TOC*(ft.)		(ft.)	(msl)	(ft.)	(ppb)	(իրս)	37722	555555555555, 5g -0000, 5000			
				.*						•	
VP-1	•			0.00	18,0001	1,5001	35,000	120	820	280	4,600
103.03	07/24/02	11.59	91.44	0.00	7,500¹	598 ^{1,2}	27,300	170	756	334	4,820
	10/17-18/02	12.70	90.33	0.00	14,200 ¹	807 ^{1,2}	36,700	90.5	801	500	6,630
	01/21/03	12.70	90.33	0.00	2,830 ¹	<500 ¹	24,200	110	136	225	2,780
	04/23-24/03	11.63	91.40	0.00	2,000						
VP-2							.· 				
104.72	07/24/02	UNABLE TO I			NOT SAMPLE	D DUE TO INC	TEETCIENT WA	ATER			
	10/17-18/02	13.60	91.12	0.00	NOT SAMPLE	D DUE TO INS	HEFICIENT WA	ATER			
	01/21/03	13.63	91.09	0.00	12,100 ¹	<250 ¹	6,230	549	42.6	106	1,120
	04/23-24/03	12.15	92.57	0.00	12,100	. \250	0,250	2.5	•		
VP-3 (MW-2)								·	 .		
104.75	07/24/02	DRY						<u> </u>			
	10/17-18/02										
	01/21/03	DRY						, 			
	04/23-24/03	DRY	. **								
VP-4						1		7.200	7,500	1,900	13,000
103.35	07/24/02	11.89	91.46	0.00	78,000 ¹	<9,700 ¹	89,000	7,300		1,900	
	10/17-18/02	12.75	90.62**	0.03		ED DUE TO THE					<u>.</u>
	01/21/03	12.61	90.82**	0.10		D DUE TO TH					
	04/23-24/03	11.72	91.65**	0.03	NOT SAMPL	ED DUE TO TI	HE PRESENCE	L OF SPH			
VP-5 (MW-5)											
102.63	07/24/02		LE - VEHICLE I		ER WELL		 15,900	318	49.3	880	1,870
	10/17-18/02	12.31	90.32	0.00	3,900 ¹	<500¹		J16	47.5		- <u>-</u>
	01/21/03	INACCESSIB	LE - VEHICLE	PARKED OV	ER WELL						
	04/23-24/03	INACCESSII	BLE - VEHICLI	E PARKED (OVER WELL	44.00					

Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

WELL ID/	DATE	DTW	GWE	SPHT	TPH-D	ТРН-О	TPH-G	В	T	E	X (mb)
TOC*(ft.)		(ft.)	(msl)	(fl.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
VP-6											
101.90	07/24/02	10.60	92.56**	1.58			E PRESENCE O				
	10/17-18/02	11.35	91.07**	0.65			E PRESENCE O				
	01/21/03	11.27	91.93**	1.63			E PRESENCE O				
	04/23-24/03	10.75	91.27**	0.15	NOT SAMPLE	ED DUE TO TI	HE PRESENCE	OF SPH			****
VP-7 (MW-3)			,								
100.40	07/24/02	9.74	90.66	0.00	5,800 ¹	580¹	60,000	8,200	7,000	1,500	8,300
	10/17-18/02	10.57	89.83	0.00	5,160 ¹	510 ^{1,2}	71,600	11,100	5,880	1,940	10,800
	01/21/03	10.29	90.11	0.00	714 ^{1,4}	<500 ¹	41,600	9,440	1,470	1,360	6,190
	04/23-24/03		LE - VEHICLE	PARKED O	VER WELL						•••
VP-8 (MW-7)						_					
04.88	07/24/02	11.70	93.18	0.00	1,800 ¹	420 ¹	1,500	9.4	9.2	34	50
	10/17-18/02	12.78	92.10	0.00	1,830 ¹	<500¹	552	9.75	1.45	4.25	5.73
	01/21/03	12.63	92.25	0.00	1,1201	<500¹	1,910	139	291	59.1	216
	04/23-24/03	10.72	94.16	0.00	800 ¹	<500 ¹	700	65.6	35.7	22.9	69.8
VP-9									.*		
12.35	07/24/02	INACCESSIRI	LE - VEHICLE P	ARKED OVE	ER WELL						
12.33	10/17-18/02	11.90	100.45	0.00	13,200 ¹	786 ^{1,2}	1,910	11.3	2.62	8.86	14.7
	01/21/03		LE - VEHICLE P								
	04/23-24/03	8.28	104.07	0.00	<250 ¹	<500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00
					·						
MW-4											
02.07	07/24/02	11.18	90.89	0.00	10,000 ¹	680¹	83,000	11,000	9,900	1,800	11,000
	10/17-18/02	11.98	90.09	0.00	9,860 ¹	697 ^{1,2}	110,000	14,500	11,600	2,630	15,200
	(D) 10/17-18/02		***		7,100 ¹	<500¹	92,400	12,400	9,980	2,090	12,200
	01/21/03	11.81	90.26	0.00	2,540 ^{1,5}	<500 ¹	80,000	10,700	10,100	1,920	11,700
	04/23-24/03	11.03	91.04	0.00	1,680 ¹	<500 ¹	79,300	8,990	7,350	1,780	10,300

Table 1 Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station (Site #211577)

					Seattle, Was	hington					
WELL ID/	DATE	DTW	GWE	SPHT	TPH-D	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)
OC*(ft.)		(ft.)	(msl)	(ft.)	(ppb)	<u> </u>					
1W-6					- 1	40.0001	21 000	8,900	1,600	820	4,200
13.32	07/24/02	19.76	93.56	0.00	29,000 ¹	<10,000 ¹	31,000				 ,
13.32	10/17-18/02	20.64	92.72**	0.05	NOT SAMPLE	D DUE TO THE D DUE TO THE	PRESENCE OF	FSPH			
	01/21/03	21.71	91.63**	0.03	NOT SAMPLE	D DUE TO THE E D DUE TO TH	F PDFSFNCE	OF SPH			
	04/23-24/03	20.88	92.46**	0.03	NOT SAMPLI	ւթյուն ու	E I RESERVOD				
						•				220	107
∕IW-9	10/15 10/03	20.88	93.39	0.00	43,600 ¹	671 ^{1,2}	6,380	493	13.0	230	
14.27	10/17-18/02 01/21/03	ZU.00	LE - VEHICLE P								105
	04/23-24/03	20.04	94.23	0.00	3,680 ¹	<500 ¹	6,760	388	15.9	277	103
	04/25-24/05	20.01	`.								
MW-10				0.00	320 ¹	600 ¹	240	2.5	<0.50	<1.0	<1.5
115.28	07/24/02	13.14	102.14	0.00	667 ¹	<500¹	490	3.42	< 0.500	1.34	5.00
	10/17-18/02	13.59	101.69	0.00	<250 ¹	<500 ¹	416	3.44	0.550	0.519	3.24
	01/21/03	12.46	102.82	0.00	6	6	<50.0	<0.500	<0.500	<0.500	<1.00
	04/23-24/03	11.76	103.52	0.00					·		
MW-11					<250¹	<250 ¹	<50	<0.50	<0.50	<0.50	<1.5
	07/24/02	11.16		0.00	<250 ¹	<500 ¹	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	10/17-18/02			0.00 0.00	<250 ¹	<500 ¹	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	01/21/03	11.29		0.00 0.00	<250¹	< 500 ¹	<50.0	<0.500	<0.500	<0.500	<1.00
	04/23-24/03	11.09	 ,	0.00	~230						
DB-1 (MW-12)				0.00	<250 ¹	<500 ¹	<50.0	0.516	0.869	<0.500	<1.00
113.36	10/17-18/02		101.14	0.00	<250 ¹	<500 ¹	<50.0	<0.500	< 0.500	< 0.500	<1.0
	01/21/03	11.72	101.64	0.00	<250 ¹	<500 ¹	< 50.0	<0.500	< 0.500	<0.500	<1.0
	04/23-24/03	11.04	102.32	0.00	~230	~500	-5010	2.2 - 3			

Table 1
Groundwater Monitoring Data and Analytical Results

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

					Seame, wa	Similgrom					
WELL ID/	DATE	DTW	GWE	SPHT	TPH-D	трн-о	TPH-G	В	T	E	X
TOC* <i>(fl.)</i>		(fL)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ррв)	(ppb)	(ppb)
DB-2 (MW-13)											
114.80	10/17-18/02	19.31	95.49	0.00			SUFFICIENT WA				
	01/21/03	19.01	95.79	0.00		ED DUE TO INS	SUFFICIENT WA	TER			
	04/23-24/03	INACCESSIBI	LE - VEHICLE	PARKED O	VER WELL						
DB-6 (MW-14)											
101.64	10/17-18/02								3		 020 ³
	11/14/02	11.88	89.76	0.00	4,710 ¹	<500¹	$43,100^3$	9,900 ³	4,930 ³	1,540 ³	$6,020^3$
	01/21/03	INACCESSIBL	E - VEHICLE F	ARKED OVE	ER WELL						
	04/23-24/03	INACCESSIBI	LE - VEHICLE	PARKED O	VER WELL				-	. 	
DB-8 (MW-15)											
99.03	10/17-18/02		- 17								
<i>77.03</i>	11/14/02	9.44	89.59	0.00	780¹	<500 ¹	3,280	1,640	5.23	5.06	<10.0
	01/21/03	9.29	89.74	0.00	<250 ¹	<500¹	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	04/23-24/03	INACCESSIBI			VER WELL				***		-
,											
DB-9 (MW-16)											
101.83	10/17-18/02	10.06	90.47	0.00	<250 ¹	<500¹	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	11/14/02	12.36	89.47	0.00	<250 ¹	<500 ¹	<50.0	< 0.500	< 0.500	< 0.500	<1.00
	01/21/03	11.88 INACCESSIBI	89.95						uring.		
	04/23-24/03	INACCESSIBI	LE - VEHICLE	, PARKED O	VER WELL	_					
DB-10 (MW-17)											
99.29	10/17-18/02					1					250
	11/14/02	10.00	89.29	0.00	<250 ¹	<500¹	2,780	569	31.0	91.1	
	01/21/03	9.62	89.67	0.00	<250¹	<500 ¹	<50.0	< 0.500	< 0.500	<0.500	<1.00
	04/23-24/03	INACCESSIB)	LE - VEHICLE	PARKED O	VER WELL						

Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

/17-18/02	DTW (ft.) UNABLE TO LO	GWE (msl)	SPHT (fl.)	TPH-D (ppb)	TPH-O <i>(ppb)</i>	TPH-G <i>(ppb)</i>	B (ppb)	T (ppb)	E (ppb)	X <i>(ppb)</i>
/17-18/02		(MSD)	(1.57)							
/17-18/02	INARLE TO LO		•							
/17-18/02	INABLE TO LO									·
/17-18/02		CATE					 90.5	8.05	29.2	31.5
	14.44	92.19	0.00	988¹	<500¹	1,380		0.859	1.28	4.11
)1/21/03	10.61	96.02	0.00	<250 ¹	<500¹	126	33.5	<0.500	0.642	2.64
/23-24/03	10.30	96.33	0.00	<250 ¹	<500 ¹	55.7	<0.500	~0.500	0.012	
					<u></u> .				***	
	UNABLE TO LO									
)/17-18/02	UNABLE TO L							. 		
01/21/03	UNABLE TO L							·	·	
4/23-24/03	UNABLE TO I	OCATE	· *=							
			0.00	15 000 ¹	<2 0001	990	62	1.3	32	7.0
07/24/02								2.50	40.4	15.6
0/17-18/02								< 0.500	2.37	7.03
01/21/03	17.88							-	<u></u>	
4/23-24/03	INACCESSIBI	LE - VEHICLE	; PARKED OVE	ER WELL						
		•			:			•		
		o a tari		· <u></u>				· ·		-
					3.650 ¹	3,370	696	67.2	63.0	408
					•		17.1	4.43		52.9
							9.73	13.4	<5.00	870
4/23-24/03	11.31	92.91	0.00	2,000		. *		·		
07/04/00	INIACCESIDI	- IINABLE TO	O OPEN WELL				. .			
0 (44	/17-18/02 01/21/03 / 23-24/03 07/24/02 01/21/03 01/21/03 07/24/02	/17-18/02 19.29 01/21/03 17.88 /23-24/03 INACCESSIBI 07/24/02 UNABLE TO L 01/21/03 11.81 01/23-24/03 11.31 07/24/02 INACCESIBLE	7/17-18/02 19.29 91.53 01/21/03 17.88 92.94 7/23-24/03 INACCESSIBLE - VEHICLE 07/24/02 UNABLE TO LOCATE 0/17-18/02 12.63 91.59 01/21/03 11.81 92.41 07/24/03 11.31 92.91	/17-18/02 19.29 91.53 0.00 /17-18/03 17.88 92.94 0.00 /23-24/03 INACCESSIBLE - VEHICLE PARKED OVE /17-18/02 UNABLE TO LOCATE /17-18/02 12.63 91.59 0.00 /1/21/03 11.81 92.41 0.00 /1/23-24/03 11.31 92.91 0.00	7/7-18/02 19.29 91.53 0.00 8,930¹ 01/21/03 17.88 92.94 0.00 2,830¹ 07/23-24/03 INACCESSIBLE - VEHICLE PARKED OVER WELL 07/24/02 UNABLE TO LOCATE 07/17-18/02 12.63 91.59 0.00 84,900¹ 01/21/03 11.81 92.41 0.00 1,860¹ 01/23-24/03 11.31 92.91 0.00 2,050¹ 07/24/02 INACCESIBLE - UNABLE TO OPEN WELL	17/24/02	17/24/02	17/24/02	17/24/02 18.30 92.52 0.00 15,000 2,000 17,000 17,000 17,000 19.20 19.29 91.53 0.00 8,930 939 3,160 59.8 2.50 17.21/03 17.88 92.94 0.00 2,830 50.21/21/21/21/21 17.88 92.94 0.00 2,830 50.21/21/21/21 17.88 192.91 0.00 84,900 3,650 3,370 696 67.2 12.63 91.59 0.00 84,900 3,650 493 17.1 4.43 17.21/21/21/21/21/21/21/21/21/21/21/21/21/2	17/24/02 18.30 92.52 0.00 15,000 \$ \cdot \cdo \cdo \cdo \cdot \cdo \cdot \cdot \cdot \cdot \cdot \cd

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 (fi.)	GWE (msl)	SPHT (fl.)	TPH-D <i>(ppb)</i>	TPH-O <i>(ppb)</i>	TPH-G <i>(ppb)</i>	B (ppb)	T <i>(ppb)</i>	E (ppb)	X (ppb)
MP-2											
	07/24/02	INACCESIBLE	- CAR PARKE	D OVER WELL							
	10/17-18/02										
	NOT MONITO	RED/SAMPLED									
									•		
Trip Blank							<50	<0.50	< 0.50	< 0.50	<1.5
QA	07/24/02				***			< 0.500	< 0.500	< 0.500	<1.00
	10/17-18/02				#4		<50.0		< 0.500	<0.500	<1.00
	11/14/02						<50.0	<0.500	~0.500	٧٥.500	
	01/21/03										<1.00
	04/23-24/03						<50.0	< 0.500	<0.500	<0.500	<1.00
	04/25-24/05										
		•									r
					TPH-D	ТРН-О	TPH-G	В	T	E	X
		Standard	Laboratory Re	eporting Limits:	250	250	50.0	0.500	0.500	0.500	1.00
				Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000
		MIN		urrent Method:		D Extended		NWI	PH-G and EPA	8021B	

Groundwater Monitoring Data and Analytical Results

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

EXPLANATIONS:

TOC = Top of Casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline

-- = Not Measured/Not Analyzed

(ft.) = Feet

B = Benzene

QA = Quality Assurance/Trip Blank

DTW = Depth to Water

T = Toluene

NP = No Purge

GWE = Groundwater Elevation

E = Ethylbenzene

MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

(msl) = Mean Sea Level

X = Xylenes

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 x 0.8)].
- Analysis with silica gel cleanup.
- Laboratory report indicates the heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- Laboratory report indicates this sample was received and analyzed unpreserved.
- Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation. 5
- Sample broke during transport to laboratory.

Table 2 Separate Phase Hydrocarbon Thickness/Removal Data

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

WELL ID	DATE	DTW (fi.)	SPH THICKNESS (ft.)	AMOUNT BAILED (SPH + WATER) (gallons)
VP-4	10/17-18/02	12.75	0.03	0.00
	01/21/03	12.61	0.10	0.00
	04/23-24/03	11.72	0.03	0.00
VP-6	07/24/02	10.60	1.58	0.00
	10/17-18/02	11.35	0.65	0.00
	01/21/03	11.27	1.63	0.00
	04/23-24/03	10.75	0.15	0.00
MW-6	10/17-18/02	20.64	0.05	0.00
	01/21/03	21.71	0.03	0.00
	04/23-24/03	20.88	0.03	0.00

EXPLANATIONS:

DTW = Depth to Water

(ft.) = Feet

SPH = Separate Phase Hydrocarbons

Table 3
Groundwater Analytical Results - SVOC and PAH

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

				Seattle, Was	hington			•	
WELL ID	DATE	कु 2-Methylnaphthalene	સું 2,4-Dimethylphenol	(9 Naphthalene	(qdq)	(9dd) 2-Methylphenol	(gd 4- Methylphenol	(gd bis (2-Ethylhexyl) phthalate	ga Benzotc actid
VP-1	7/24/2002	(4)	80	160	ND .	13	18	31	<10
VP-2	7/24/2002	UNABLE TO LOC	ATE					, 	
VP-5 (MW-5)	7/24/2002	INACCESSIBLE -	VEHICLE PARKI	ED OVER WELL				·	
VP-7 (MW-3)	7/24/2002	69	28	420	ND	<5.0	6	<10	34
VP-8 (MW-7)	7/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10
VP-9	7/24/2002	INACCESSIBLE -	VEHICLE PARK	ED OVER WELL	 .		: 		<u>.</u>
MW-4	7/24/2002	160	24	500	ND	6	9	<10	<10
MW-10	7/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	13	<10
MW-11	7/24/2002	<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

					asmington			late	
WELL ID	DATE	(q 2-Methylnaphthalene	(g. 2,4-Dimethylphenol	(qdd) Naphthalene	(gdd)	ची 2-Methylphenol	(g. 4- Methylphenot	d bis (2-Ethylhexyl) phthalate	(gdd) (gdd)
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 ¹	<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 ¹	 <50.0	<20.0
RW-4	7/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10

Groundwater Analytical Results - SVOC and PAH

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

EXPLANATIONS:

(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

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.

Groundwater Analytical Results - SVOC

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

Seattle, Washington

WELL ID/	DATE	(dqq)	gd cis-1,2-Dichloroethene	Benzene	(gdd), Toluene	(g. Ethylbenzene	(gd Tetrachloroethene	(qd.) (q. Trichloroethene	(qdd) m+p-Xylene	o-Xylene (ppb)	(gd ddd) (gopropylbenzene	(qd n-Propylbenzene	(qdd.),3,5-Trimethylbenzene	(gd 1,2,4-Trimethylbenzene	(qd. sec-Butylbenzene	(dqd)	(gdd) (gdd)	(9dd) (9dd)	(gd Methyl 6-butyl ether	(qdd) (Hartyl alcohol
VP-3 (MW-2)	07/24/02	DRY																		
VP-5 (MW-5)	07/24/02	INACC	ESSIBL	E - VEHI	CLE PA	RKED O	VER W	ELL												
VP-7 (MW-3)	10/17-18/02																		<10.0	<100
VP-9	07/24/02	INACCI	ESSIBLI	E - VEHI	CLE PAI	RKED O	VER W	ELL		<u>.</u>										
MW-4	07/24/02 10/17-18/02	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 <50.0	120 <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

Groundwater Analytical Results - SVOC

Former Texaco Service Station (Site #211577)

								Seame	, wasn	ington										
WELL ID/	DATE	(qChloroform	(g cis-1,2-Dichloroethene	(gddd)	(gd Toluene	(qd Ethylbenzene	वि g Tetrachloroethene	dd Trichloroethene	(dad)	(dgg)	र्वे Isopropylbenzene	d n-Propylbenzeue	dd 1,3,5-Trimethylbenzene	dd 1,2,4-Trimethylbenzene	dag sec-Butylbenzene	(g. p-Isopropyltoluene	(du-Butylbenzene	(qdd) (qabhthalene	(gdd) (gdd) Methyl t-butyl ether	(qdd)
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

Groundwater Analytical Results - SVOC

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

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.

Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

				Seattle, Wa	ishington				
WELL ID/	DATE		ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER <i>(ppb)</i>	BARIUM TR (pph)
		(ppb)	(рро)	(1000)					
	07/04/00					22.9			
VP-1	07/24/02					18.0			
	10/17-18/021					47.1			
	01/21/03				 .	36.4 ²	***		
	04/23-24/03								
VP-2	07/24/02	UNABLE TO LOCAT	ΓE	45					
VP-2	10/17-18/02	NOT SAMPLED DUI	E TO INSUFFI	CIENT WATER					
	01/21/03	NOT SAMPLED DU	E TO INSUFFI	CIENT WATER					
	04/23-24/03	NOT BANK BED DO				1.52 ²			
	04/23-24/03	_			•				
	07/04/00	DDV							·
VP-3 (MW-2)	07/24/02	DRY				 ••			-
	10/17-18/02	DRY					·		
	01/21/03	DRY			-			guings.	
	04/23-24/03	DRY							
	07/24/02					28.0			
VP-4	07/24/02	NOT SAMPLED DU	E TO THE PRI	ESENCE OF SPH				 .	
	10/17-18/02	NOT SAMPLED DU	E TO THE PRI	ESENCE OF SPH	·		<u> </u>	·	
	01/21/03	NOT SAMPLED DO	E TO THE P	RESENCE OF SPH					
	04/23-24/03	NOI SAMPLED DO	DE TO THE T	RESERVED OF SELE					
TO 5 (\$437.5)	07/24/02	INACCESSIBLE - V	EHICLE PARK	CED OVER WELL			»-		
VP-5 (MW-5)	10/17-18/02 ¹	INACCESSIBEE .				2.29			
	01/21/03	INACCESSIBLE - V	THICLE PARK	CED OVER WELL					
	04/23-24/03	INACCESSIBLE - V	VEHICLE PA	RKED OVER WEL	Ĺ				
	04/23-24/03	INACCESSIBLE	VEHICES III						
VP-6	07/24/02	NOT SAMPLED - D	UE TO PRESE	NCE OF SPH					
V I -U	10/17-18/02	NOT SAMPLED DU							
	01/21/03	NOT SAMPLED DU							
	04/23-24/03	NOT SAMPLED D							
	U4/43-44/U3	HOT SURE DED D							

Table 5 Groundwater Analytical Results - Dissolved Metals Former Texaco Service Station (Site #211577)

				Beaute, W	uoming.o.x				
WELL ID/	DATE	MERCURY (ppb)	ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
									22.6
VP-7 (MW-3)	07/24/02	< 0.079	97.3	< 0.080	2.2	25.0	<1.1	0.068	33.6
, , , , , , , , , , , , , , , , , , , ,	10/17-18/02					2.40			
	01/21/03					<1.00	***		
	04/23-24/03	INACCESSIBLE	- VEHICLE PAR	KED OVER WELI	L				
NAME OF COMMAND OF STREET	07/24/02	<0.079	2.1	0.13	0.82	11.4	<1.1	<0.050	49.6
VP-8 (MW-7)	10/17-18/02	~0.079	2.1		***	1.93			
	01/21/03			_		8.33			
	04/23-24/03			-		3.73 ²			-
VP-9	07/24/02	INACCESSIBLE -	- VEHICLE PARK	ED OVER WELL					
	10/17-18/02	44.40	-			<1.00	- -		
	01/21/03	INACCESSIBLE -	- VEHICLE PARK	ED OVER WELL					
	04/23-24/03					<1.00 ²		20 75	-
MW-4	07/24/02	<0.079	31.0	<0.080	<0.28	15.5	<1.1	<0.050	63.8
IV1 VV -4	10/17-18/02 ¹					10.7		***	
(D)	10/17-18/02				*. 	9.61			
(D)	01/21/03					14.5			
	04/23-24/03					5.74 ²	 ·		
						<i>5</i> 1			_
MW-6	07/24/02					5.1			
	10/17-18/02	NOT SAMPLED							
	01/21/03	NOT SAMPLED				• -			
	04/23-24/03	NOT SAMPLED	DUE TO THE PR	RESENCE OF SPH		· wen	-		•••
						0.11			
MW-9	10/17-18/02					2.66	20 th		
	01/21/03	INACCESSIBLE	- VEHICLE PARK	ED OVER WELL		2			
	04/23-24/03				·	1.31 ²			

Table 5
Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

			Seattle, v	Vashington				
DATE	MERCURY	ARSENIC	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
	U2/2/			-			<0.050	52.1
07/24/02	<0.079	4.1	0.17	0.38			7	32.1
04/23-24/03					<1.00	20.00		-
								**
07/24/02								
	<u></u>							
01/21/03 04/23-24/03				 ,	<1.00 ²	•••		
				4				
		•			<1.00			·
					$<1.00^{2}$,,
04/23-24/03								
01/01/03	NOT CAMPIED	DUE TO INSUFF	ICIENT WATER					
04/23-24/03	INACCESSIBLE	- VEHICLE PA	RKED OVER WE	LL				
,				41.00	1 82	1 48	<1.00	18.4
11/14/02	<1.00						·	
01/21/03	INACCESSIBLE	- VEHICLE PARI	KED OVER WELL			·.		
04/23-24/03	INACCESSIBLE	E - VEHICLE PA	RKED OVER WE	LL				
				~1 0 0	1 04	<1.00	<1.00	<10.0
11/14/02	<1.00	1.33	<1.00					
01/21/03	· · · · ·							
04/23-24/03	INACCESSIBLI	E - VEHICLE PA	RKED OVER WE	iLL				
					<1.00	·.		
11/14/02								
01/21/03	 INACCESSIBL	 E - VEHICLE PA	 RKED OVER WI	CLL	~1.00 			.
	07/24/02 10/17-18/02 01/21/03 04/23-24/03 07/24/02 10/17-18/02 01/21/03 04/23-24/03 01/21/03 04/23-24/03 11/14/02 01/21/03 04/23-24/03 11/14/02 01/21/03 04/23-24/03	07/24/02 <0.079 10/17-18/02 01/21/03 04/23-24/03 07/24/02 10/17-18/02 01/21/03 01/21/03 01/21/03 01/21/03 01/21/03 INACCESSIBLE 11/14/02 <1.00 01/21/03 INACCESSIBLE	(ppb) (ppb)	DATE MERCURY (ppb) ARSENIC (ppb) CADMIUM (ppb) 07/24/02 <0.079	DATE MERCURY ARSENIC CADMIUM (ppb) (ppb)	DATE MERCURY	DATE MERCURY ARSENIC CADMIUM CHROMIUM CHROMIUM (ppb) (DATE MERCURY ARSENIC CADMIUM CHROMIUM LEAD SELENIUM CIPPD (ppb) (p

Table 5
Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

WELL ID/	DATE	MERCURY	ARSENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR (ppb)
		(ppb)	(ppb)	(ppb)	(ррв)	(ppb)	(ppb)	(ppb)	(ppo)
DB-10 (MW-17)	11/14/02			**	~-	<1.00			
DB-10 (M1W-17)	01/21/03			gapinan		<1.00		<u></u> -	 .
	04/23-24/03	INACCESSIBLE - V	VEHICLE PAR	KED OVER WE	LL	-			
RW-2	07/24/02	UNABLE TO LOCA	TE			-		_:	
	10/17-18/02					2.23			
	01/21/03					<1.00	40 90		
	04/23-24/03	-				<1.00 ²		***	
RW-3	07/24/02	UNABLE TO LOCA	TF						
KW-3	10/17-18/02	UNABLE TO LOCA							
	01/21/03	UNABLE TO LOCA			**				
	04/23-24/03	UNABLE TO LOCA				# 40			
RW-4	07/24/02	<0.079	6.1	<0.080	1.2	3.3	<1.1	<0.050	66.9
KW-4	10/17-18/02					1.23		· <u></u>	
	01/21/03					<1.00		••	
	04/23-24/03	INACCESSIBLE - Y	VEHICLE PAR	KED OVER WE	LL			·	·
RW-5	07/24/02	UNABLE TO LOCA	TF						
C-WA	10/17-18/02	ONADEE TO EOCH				3.91			
	01/21/03					13.3			
	04/23-24/03			-	. -	7.31 ²			

Groundwater Analytical Results - Dissolved Metals

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

EXPLANATIONS:

(ppb) = Parts per billion

-- = Not Analyzed

(D) - Duplicate

ANALYTICAL METHODS:

Dissolved Metals by EPA Method Series 7000 Barium TR by EPA Method 6010B

- Organic Lead was <300 ppb.
- Laboratory report indicates this sample was laboratory filtered.

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, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken 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 4°C 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.



lient/Facility #:	Chevron #2115	77	J	ob Number: <u>3</u>	886765	
ite Address:	631 Queen Ann	e North	E	vent Date:	4-24-03	(inclus
ity:	Seattle, WA		S	Sampler:	BWN	
				1		
Vell ID	191	W	ell Condition: _	ok		
Vell Diameter	(2) / 8 in.	H	ydrocarbon		Amount Bailed	6
otal Depth	14.8 ft.	TI	nickness:	Ø ft.	(product/water):	gal.
Depth to Water	11.63 ft.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	2 18	17	Factor (VF)			
	3.18 xvF	<u> </u>	_= <u> </u>	3 (case volume) = E	stimated Purge Volume	gai.
Purge	Diamondhla Bailar		\int	Sampling	Disposable Bailer	/
-urge Equipment:	Disposable Bailer Stainless Steel Ba	iler	•		Pressure Bailer	
-darbinoitti					Discrete Bailer	
	Stack Pump				Other:	
	Suction Pump					
	Grundfos Other:					
	Other					
Charl Time (au	ne): 900	Weath	ner Conditions:	Rain		
Start Time (purg Sample Time/D	- 1 -	VV Cati	Water Color:		Odor:	yes
Purging Flow F		Sedime	ent Description:	(! !		7
Did well de-wa			ie:	Volume:	gal.	
				-	D.O.	ORP
Time	Volume	рН	Conductivity (u mhos/cm)	Temperature (C#)	(mg/L)	(mV)
(2400 hr.)	(gal.)		(a milesion)	(-),		
905	1.5	6.69	281	12.2		
-103	_ 1.2	6:01				
		LA	BORATORY INF	ORMATION		
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE			IALYSES
VPI	3 x voa vial	YES	HCL_	NORTHCREE		
VP I	x amber	YES	NP HNO3	NORTHCREE		D
	1 x 500ml poly	YES	ПІЛОЗ	HONTHONE		
VPI	1 X CCCIII POI			7		
	7 X 000.111 pay					
VPI						
VPI						

Client/Facility #:	Chevron #211577	J	ob Number:	386765	
Site Address:	631 Queen Anne No	rth E	vent Date:	4-24.03	(inclusi
City:	Seattle, WA	S	Sampler:	BWN	
Well ID	VP2	Well Condition:	ok		
Well Diameter Total Depth	(2) 1 8 in. 14.55 ft.	Hydrocarbon Thickness:	Ø ft.	Amount Bailed (product/water):	gal.
Depth to Water	12.15 ft.	Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	2 1 xvF 1)	= 1 ×3	3 (case volume) = E	stimated Purge Volume:	gal.
Purge Equipment:	Disposable Bailer Stainless Steel Bailer			Disposable Bailer Pressure Bailer	J
, ,	Stack Pump			Discrete Bailer	
	Suction Pump			Other:	
	Grundfos				
	Other:				
Start Times (e): 925 w	/eather Conditions:	Rain		
Start Time (purga Sample Time/Da		Water Color:	900/	Odor:	no
Purging Flow Re		diment Description:	- J - Y -		
Did well de-wate		Time:	Volume:	gal.	
Time (2400 hr.)	Volume pH (gal.)	Conductivity (umhos/cm)	Temperature (C/ /)	D.O. (mg/L)	ORP (mV)
930	6.91	303	12.1.		
<u> </u>					
		LABORATORY INF	ORMATION		
SAMPLE ID	(#) CONTAINER REFR			Y ANA	ALYSES
VP2	3 x voa vial YES	HCL	NORTHCREE		
VP Z	x amber YES		NORTHCREE		
VP 2	x 500ml poly YES	S HNO3	NORTHCREE	K DISSOLVED LEAD	
COMMENTS:					
Add/Ponk	aced Lock:		Add/Replaced	Plug: S	Size:



Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne N	orth	Event Date:	4-24 B	(inclusive
City:	Seattle, WA		Sampler:	BWN	
Well ID	VP3(MW2)	Well Condition	· ok		
Well Diameter Total Depth	(2) / 8 in.	Hydrocarbon Thickness:	Ø ft.		gal.
Depth to Water	DRY ft.	Volume Factor (\		1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	xVF	=	_x3 (case volume) =	Estimated Purge Volume:	gal.
Purge	Disposable Bailer		Sampling Equipment:	Disposable Bailer Pressure Bailer	
Equipment:	Stainless Steel Bailer \Stack Pump		Edulpinom	Discrete Bailer	
	Suction Pump	7		Other:	
	Grundfos Other:				
		Weather Condition	ıs:		
Start Time (pu Sample Time/	Date:	Water Cold	or:\	Odor:	
Purging Flow Did well de-wa	- 3/ / \	Sediment Descriptions, Time:	on: Volume:	gal.	
Time (2400 hr	Volume	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
	$= \neq = =$				
	_/ =				
	(#) CONTAINER RE	LABORATORY	NFORMATION YPE LABORAT	ORY AN	IALYSES
SAMPLE II		YES HCL	NORTHCR		
		YES MP	NORTHCE		
		YES HNO3	NORTHCF	EEK DISSOLVED LEAD	D
	4	Č.			
COMMENT	s: Wall is	DRY		·	
Add/Re	eplaced Lock:	_	Add/Replace	ed Plug:	Size:



Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne No	orth	Event Date:	4-24-03	(inclusiv
City:	Seattle, WA		Sampler:	BWN	
Well ID	VP H	Well Condition	n: 0K		
Well Diameter	(2) / 8 in.		. 0	Amount Bailed	~1
Total Depth	14.70 ft.	Hydrocarbon Thickness:	,03 _{ft.}		Ø gal.
Depth to Water	11,72 ft.	Volume		1"= 0.04 2"= 0.17	3"= 0.38
		Factor (5"= 1.02 6"= 1.50	12"= 5.80
	xVF	=	_x3 (case volume) =	Estimated Purge Volume:	gal.
Purge	Disposable Bailer		Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump			Discrete Bailer	***
	Suction Pump			Other:	
	Grundfos				
	Other				
			$\overline{}$	/	
Start Time (purg	ne): X	/ Veather Condition	ns:		
Sample Time/D	· /	Water Col		Odor:	
Purging Flow R		– diment Descriptio	on:		
Did well de-wat	ter? (f yes,	, Time:	Volume:	gal.	
				\	0.00
Time (2400 hr.)	Volume pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
(2400111.)	(gai.)	(2	/ (3.1,	/ ,	, ,
•	_ /	_\			
	_ /				
	_/	-)			÷
	/				
		LABORATORY	NEORMATION		
SAMPLE ID	(#) CONTAINER REFR		PE MBORATO		LYSES
	x voa vial YES		NORTHCRE		
	x amber YES		NORTHCRE NORTHCRE		
	x 500ml poly YES	S FINOS	HONTHORE	EN DIOCCEVED LEAD	
COMMENTS:	Not sample	d due f	o SPH		
COMMENTO.	14 1 05 11 19100				
			·······		
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Add/Repl	aced Lock:		Add/Replaced	Plug:S	ize:



CI	ient/Facility #:	Chevron #21157					AT		
	te Address:	631 Queen Anne	North	E\	vent Date:	4-24-			(inclusive)
C	ity:	Seattle, WA		Si	ampler:	BMM			
v	Vell ID	VP 5 (MW 5)	We	ell Condition:	Unable	, to 0	10035		
	Vell Diameter	2 / 8 in.	Hy	drocarbon		Amount	Bailed		
	Total Depth	16.50 ft.	•	ickness:	ft.	(product	/water):	gal.	•
	Depth to Water	UTA ft.		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80	
		xVF _		=x3	(case volume) = [Estimated Pu	rge Volume: _	gal.	
	Purge	Disposable Bailer		,	Sampling	Disposab	le Bailer _		-
	Equipment:	Stainless Steel Bail	ler	<u> </u>	Equipment:	Pressure	Bailer _		_
		Stack Pump	\overline{Z}			Discrete			-
		Suction Pump	7			Other: _			-
		Grundfos	/_		,				
		Other:							
_	Start Time (pur Sample Time/I Purging Flow F Did well de-wa	Pate: gpm		er Conditions: Water Color: nt Description: e:	Volume:	g	Odor: _		- - -
	Sample Time/I Purging Flow F	Date: Rate: gpm uter? Volume	Sedimer	Water Color: nt Description:	Volume: Temperature (C/F)	C	•	ORP (mV)	- - -
	Sample Time/I Purging Flow I Did well de-wa	Date: Rate: gpm uter? Volume	Sedimer	Water Color: nt Description: e: Conductivity (u mhos/cm)	Temperature (C/F)	C	al.	ORP	
	Sample Time/I Purging Flow F Did well de-wa	Pate:	Sedimer	Water Color: nt Description: e: Conductivity (u mhos/cm) BORATORY INF	Temperature (C/F) ORMATION LABORATO) (n	al. D.O. ng/L)	ORP	
	Sample Time/I Purging Flow I Did well de-wa	Pate:	Sedimer If yes, Time	Water Color: nt Description: e: Conductivity (u mhos/cm) BORATORY INF PRESERV. TYPE HCL	Temperature (C/F) ORMATION LABORATO NORTHCRE	DRY TPH-C	al. O.O. ng/L) ANA	ORP (mV)	
=	Sample Time/I Purging Flow F Did well de-wa	Oate: Rate: gpm Volume (gal.) CONTAINER x voa vial x amber	Sedimer If yes, Time ph LAE REFRIG. YES YES	Water Color: nt Description: e: Conductivity (u mhos/cm) BORATORY INF PRESERV. TYPE HCL NP	ORMATION LABORATO NORTHCRI	DRY DEEK TPH-C	ANA	ORP (mV)	
	Sample Time/I Purging Flow F Did well de-wa	Oate: Rate: gpm Volume (gal.) CONTAINER x voa vial	Sedimer If yes, Time	Water Color: nt Description: e: Conductivity (u mhos/cm) BORATORY INF PRESERV. TYPE HCL	Temperature (C/F) ORMATION LABORATO NORTHCRE	DRY DEEK TPH-C	al. O.O. ng/L) ANA	ORP (mV)	
=	Sample Time/I Purging Flow F Did well de-wa	Oate: Rate: gpm Volume (gal.) CONTAINER x voa vial x amber	Sedimer If yes, Time PH LAE REFRIG. YES YES YES	Water Color: nt Description: e: Conductivity (umhos/cm) BORATORY INF PRESERV. TYPE HCL NP 11NO3	Temperature (C/F) ORMATION LABORATO NORTHCRI NORTHCRI	DRY DEEK TPH-CEEK DISSO	ANA B/BTEX DX w/sg DLVED LEAD	ORP (mV)	
	Sample Time/I Purging Flow F Did well de-wa	Pate: Rate: gpm Volume (gal.) CONTAINER x voa vial x amber x 500ml poly	Sedimer If yes, Time ph LAE REFRIG. YES YES YES	Water Color: nt Description: e: Conductivity (u mhos/cm) BORATORY INF PRESERV. TYPE HCL NP 11NO3	Temperature (C/F) ORMATION LABORATO NORTHCRI NORTHCRI	DRY DEEK TPH-CEEK DISSO	ANA	ORP (mV)	



Client/Facility #:	Chevron #21157	7	Job Number:	3867 65		•
Site Address:	631 Queen Anne	North	Event Date:	4-24-03		(inclusive
City:	Seattle, WA		Sampler:	BWW		
Well ID	VP 6	Well Condition	ı: oK			
Well Diameter	2 / 8 in.	Hydrocarbon		Amount Bailed	Ø	•
Total Depth	14.72 ft.	Thickness:	1(5 ft.	(product/water):	y gal.	-
Depth to Water	10.75 ft.	Volume Factor (1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50		
	xVF _	=	_x3 (case volume) = I	Estimated Purge Volume	: gal.	
Purge	Disposable Bailer	·	Sampling	Disposable Bailer		
Equipment:	Stainless Steel Baile	er /	Equipment:	Pressure Bailer		-
	Stack Pump			Discrete Bailer		-
	Suction Pump			Other:		
	Grundfos					
	Other:					
Purging Flow Ra Did well de-wate Time (2400 hr.)		Sediment Description yes, Time: Conductivity (u mhos/cm)	Volume: Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)	
		LABORATORYII	NEORMATION			
SAMPLE ID	(#) CONTAINER	REFRIG. PRESERV. TY		RY AN	ALYSES	
	x voe vial	YES HCL	NORTHCRE			
	x amber	YES NE	NORTHCRE		· · · · · · · · · · · · · · · · · · ·	
	x 500ml poly	YES MINO3	NORTHCRE	LIN DISSOLVED LEAL		
COMMENTS:	Not san	rpled due	to 3PH			
Add/Dank	aced Lock:		Add/Replaced	Plug:	Size:	
Additable	JOEG LOCK.		aaopiaooa	9		



386765	
4-24-03	(inclusive
BMN	_
<u> </u>	=
c to accoss	
Amount Bailed	-
ft. (product/water): gal	
	<u>-</u> 7
2 1"= 0.04 2"= 0.17 3"= 0.38 5 5"= 1.02 6"= 1.50 12"= 5.80	
= Estimated Purge Volume: gal	
Estimated Furge volume.	•
Disposable Bailer	
Pressure Bailer	
Discrete Bailer	
Other:	_
<u> </u>	-
/	
0.1-11	
Odor:	·
gal. \	
re D.O. ORP	
(mg/L) (mV)	
	
TORY ANALYSES	
REEK TPH-G/BTEX CREEK TPH-Dx w/sg	
CREEK DISSOLVED LEAD	
of Mentercy Apartm	chts?
-	iced Plug:Size:



Vell ID Vell Diameter Otal Depth Depth to Water Purge Equipment:	31 Queen Ann deattle, WA P 2	- \\7	Vell Condition: Hydrocarbon Thickness: Volume Factor (VF	s3 (case volume) = Es Sampling Equipment:	Amount Bailed (product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer Other:	gal. 3"= 0.38 12"= 5.80 3 gal.	inclusiv
Vell ID Vell Diameter Otal Depth Depth to Water Purge Equipment:	P Z 18 in. 16.76 ft. 10.72 ft. C.OH xVF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	= \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Vell Condition: Hydrocarbon hickness: Volume Factor (VF	ft. 3/4"= 0.02 4"= 0.66 x3 (case volume) = Es Sampling Equipment:	Amount Bailed (product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 :	
Vell Diameter Total Depth Depth to Water Purge Equipment:	2 / 8 in. 12.76 ft. 10.72 ft. Conday Stainless Steel Bastack Pump Suction Pump Grundfos	= \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Hydrocarbon Thickness: Volume Factor (VF	ft. 3/4"= 0.02 4"= 0.66 x3 (case volume) = Es Sampling Equipment:	(product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 :	
otal Depth Depth to Water Purge Equipment:	18 in. 16.76 ft. 10.72 ft. 10.72 ft. 20.04 xvF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	= \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Volume Factor (VF	3/4"= 0.02 4"= 0.66 x3 (case volume) = Es Sampling Equipment:	(product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 :	
Purge Equipment:	Disposable Bailer Stainless Steel Bastack Pump Suction Pump Grundfos	= \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Volume Factor (VF	3/4"= 0.02 4"= 0.66 x3 (case volume) = Es Sampling Equipment:	(product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 :	
Purge D Equipment: S S	Disposable Bailer Stainless Steel Bastack Pump Suction Pump Grundfos	ailer	Factor (VF	Sampling Equipment:	5"= 1.02 6"= 1.50 stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer	12"= 5.80 :3 gal.	
Equipment: S	Disposable Bailer Stainless Steel Ba Stack Pump Suction Pump Grundfos	ailer		s3 (case volume) = Es Sampling Equipment:	stimated Purge Volume Disposable Bailer Pressure Bailer Discrete Bailer	3 gal.	
Equipment: S	Disposable Bailer Stainless Steel Ba Stack Pump Suction Pump Grundfos	ailer	_ =x	Sampling Equipment:	Disposable Bailer Pressure Bailer Discrete Bailer	<u> </u>	
Equipment: S	Stainless Steel Ba Stack Pump Suction Pump Grundfos			Equipment:	Pressure Bailer Discrete Bailer	<u></u>	
Equipment: S	Stainless Steel Ba Stack Pump Suction Pump Grundfos			Equipment:	Pressure Bailer Discrete Bailer		
9	Stack Pump Suction Pump Grundfos				Discrete Bailer		
S	Suction Pump Grundfos						
C	Grundfos				Other.		
•	Julio1						
Start Time (purge):	1000	Weat	her Conditions:	Pain			
Sample Time/Date		Wout	Water Color:		Odor:	Slight	
Purging Flow Rate	***************************************	Sedime	ent Description:			-0.	
Did well de-water?			ne:		gal.		
Time	Volume		Conductivity	Temperature	D.O.	ORP	
(2400 hr.)	(gal.)	pН	(u mhos/cm)	(C/ F)	(mg/L)	(mV)	
							
1003		6.86	3 3	12.3			
1006		6.84	309	12.7			
1009		6.80	30 [-		
							,
	<u> </u>			ODMATION			
SAMPLE ID	(#) CONTAINER	REFRIG.	BORATORY INF		γ Ι ΔΝΑ	ALYSES	
VP 8	3 x voa vial	YES	HCL	NORTHCREEK		1. 1. 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
R 4V	1 x amber	YES	NP	NORTHCREE			
8 9V	x 500ml poly	YES	HNO3	NORTHCREE	K DISSOLVED LEAD		
			<u> </u>				
COMMENTS:							
					· · · · · · · · · · · · · · · · · · ·		



Client/Facility #: C	hevron #211577		Job Number: 38	36765	
	31 Queen Anne I	North	Event Date:	1/24-03	(inclusiv
	Seattle, WA		Sampler:	BWN	
Well ID	VP 9	Well Condition	: ok		
Well Diameter Total Depth	(2) / 8 in.	Hydrocarbon Thickness:	Ø ft.	Amount Bailed (product/water):	Ø gal.
Depth to Water _	8.29 ft.	Volume Factor (1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
-	5.22_xvf_	. 7 = .9	_x3 (case volume) = Esti	imated Purge Volume:	<u>3</u> gal.
	Disposable Bailer Stainless Steel Bailer			risposable Bailer Pressure Bailer	
;	Stack Pump			Discrete Bailer Other:	
	Suction Pump Grundfos Other:				
O4 Time - ()		Weather Condition	s: Pain-		
Start Time (purge) Sample Time/Dat	e: 1040 /	Weather Condition Water Cold Sediment Description	or: clear	Odor:	slight
Purging Flow Rat Did well de-water	9,	es, Time:		gal.	
Time (2400 hr.)	Volume p (gal.)	H Conductivity (u mhos/cm)	Temperature (C/ /)	D.O. (mg/L)	ORP (mV)
1028	<u> </u>	83 326 8) 320	12-2		
1031		76 314	11.7		
		LABORATORY I	NEODWATION		
CAMPIE ID	1 (#) CONTAINED DI	EFRIG. PRESERV. TY		ANA	ALYSES
SAMPLE ID	1 (11)	YES HCL	NORTHCREEK		
VP 9	2 x amber	YES NP	NORTHCREEK		
VP 9	x 500ml poly	YES HNO3	NORTHCREEK	DISSOLVED LEAD	
COMMENTS:					
Add/Repla	ced Lock:		Add/Replaced P	lug: S	Size:



Site Address: 631 Queen Anne North	Client/Facility #: C	hevron #21157	77		Job Number: 🔇	386765		
Well ID	Site Address: 6	31 Queen Ann	e North		Event Date:	4.23.03		(inclusiv
Well Diameter 17.50 ft. Thickness: Image: Ima	City: S	Seattle, WA			Sampler: _	BWN		•
Total Depth 17.50 ft. Thickness:	Well ID	AU 4	V	/ell Condition:	ok			
Total Depth 17.50 ft. Thickness: ft. (product/water): gal.	Well Diameter	(2) / 8 in.	Н	vdrocarbon	N	Amount Bailed	th.	•
Purge	Total Depth	17,50 ft.		•	<u></u> ft.	(product/water):	gal.	_
Purge Disposable Bailer	Depth to Water	11.03 ft.						
Disposable Bailer Stainless Steel Bailer Stack Pump Discrete Bailer Discre		(47)	.17				?	<u>.</u>
Stack Pump Discrete Bailer Other: Stack Pump Other: Discrete Bailer Other: Other: Othe	- Purge [_=	Sampling		J gai.	_
Suction Pump Grundfos Other: Start Time (purge): 900 Weather Conditions: Pain Sample Time/Date: 915 / Water Color: Clear Odor: Strond Purging Flow Rate: gpm. Sediment Description: Did well de-water? 15 / Sediment Description: Did well de-water? 15 / Water Color: Clear Odor: Strond Purging Flow Rate: gpm. Sediment Description: Did well de-water? 15 / Sediment Description: Did well de-water? 16 / Sediment Description: Did well de-water? 17 / Sediment Description: Did well de-water? 17 / Sediment Description: Did well de-water? 17 / Sediment Description: Did well de-water? 18 / Sediment Description: Did well de-wat	Equipment:	Stainless Steel Bai	ler		Equipment:	Pressure Bailer		**
Grundfos Other: Start Time (purge): 900 Weather Conditions: Pair Sample Time/Date: 915 / Water Color: Clar Odor: Strond Purging Flow Rate: gpm. Sediment Description: Did well de-water? 15 / Water Color: Clar Odor: Strond Purging Flow Rate: gpm. Sediment Description: Did well de-water? 15 / Volume: gal. Time (2400 hr.) (gal.) pH Conductivity Temperature (CJF) (mg/L) (mV) 103 C.72 34 12- 104 2 C.70 336 11.9 109 3 C.72 34 12- 109 3 C.70 336 11.9 109 4 C.70 336 11.9 109 5 C.70 336		Stack Pump				Discrete Bailer		_
Start Time (purge): 900 Weather Conditions: Pain Sample Time/Date: 915 / Water Color: Clear Odor: Strong Purging Flow Rate: gpm. Sediment Description: Did well de-water? NO If yes, Time: Volume: gal. Time (2400 hr.) (gal.) pH Conductivity (umhos/cm) (CP) (mg/L) (my/) 9D3 j C-72 341 12-1 909 3 L-12 32 11-9 909 3 L-12 32-7 11-8 LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MM 4 3 x voa vial YES HCL NORTHCREEK TPH-G/BTEX MM 4 1 x amber YES NP NORTHCREEK TPH-Dx w/sg MM 4 1 x 500ml poly YES HNO3 NORTHCREEK DISSOLVED LEAD	5	Suction Pump				Other:		-
Start Time (purge): 900 Weather Conditions: Fair Sample Time/Date: 915 / Water Color: Clear Odor: Strong Purging Flow Rate: gpm. Sediment Description: Volume: gal. Time (2400 hr.) (gal.) pH Conductivity (umhos/cm) (Cpf) (mg/L) (mV) 903 C.72 34 12-1	(Grundfos		· · · · · · · · · · · · · · · · · · ·				
Sample Time/Date: 915 / Water Color: Clear Odor: Strong	(Other:						
Sample Time/Date: 915 / Water Color: Clay Odor: Strong	Start Time (nurse)	900	Weat	ner Conditions	. Pain			
Purging Flow Rate: gpm. Sediment Description: Volume: gal. Time (2400 hr.) Volume (gal.) pH Conductivity (umhos/cm) (C/f) (mg/L) (my/) 903			Weati			Odor:	Strond	-
Did well de-water? WO	•		Sedime				- 9	_
Composition		*				gal.		
SAMPLE ID #) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES			pН	•				
SAMPLE ID #) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES	903	-	6.72	341	12.1			_
LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW 4 3 x voa vial YES HCL NORTHCREEK TPH-G/BTEX MW 4 1 x amber YES NP NORTHCREEK TPH-Dx w/sg MW 4 x 500ml poly YES HNO3 NORTHCREEK DISSOLVED LEAD		2		336	11.9			_
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW 시 3 x voa vial YES HCL NORTHCREEK TPH-G/BTEX MW 시 1 x amber YES NP NORTHCREEK TPH-Dx w/sg MW 시 1 x 500ml poly YES HNO3 NORTHCREEK DISSOLVED LEAD				327	11.8			,
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW 니 3 x voa vial YES HCL NORTHCREEK TPH-G/BTEX MW 니 x amber YES NP NORTHCREEK TPH-Dx w/sg MW 니 x 500ml poly YES HNO3 NORTHCREEK DISSOLVED LEAD								
MW	6.1151.7.15	L (II) CONTAINED L				NA ANA	VSES	
MW H / x amber YES NP NORTHCREEK TPH-Dx w/sg MW H x 500ml poly YES HNO3 NORTHCREEK DISSOLVED LEAD							1000	
MM 4 x 500ml poly YES HNO3 NORTHCREEK DISSOLVED LEAD								
COMMENTS:		x 500ml poly		HNO3	NORTHCREE	K DISSOLVED LEAD		
COMMENTS:								
COMMENTS.	COMMENTS	1						
	COMMENIS:		· · ·					



Niont/English #:	Chevron #211577	Job Number:	386765	
Site Address:	631 Queen Anne North	Event Date:	4-23-03	(inclusiv
City:	Seattle, WA	Sampler:	BWN	
Jity.	Octime, WA			
Well ID	MM 6 Well Co	ndition: OR		
Well Diameter	2 / 8 in. Hydroca	arbon 📉	Amount Bailed	X
Total Depth	28.32 ft. Thickne	11	_ (product/water): 🗡	gal.
Depth to Water		Volume 3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38 12"= 5.80
		Factor (VF) 4"= 0.66	5"= 1.02 6"= 1.50	
	xVF =	x3 (case volume) =	Estimated Purge Volume: _	gal.
D	Di II- Ballas	Sampling	Disposable Bailer	
Purge Equipment:	Disposable Bailer Stainless Steel Bailer	Equipment:		
_ darbinoitti (Stack Pump		Discrete Bailer	
	Suction Pump		Other:	
	Grundfos			
	Other:			•
Start Time (pur	rge): Weather Co	onditions:	X	
Sample Time/	10/-	er Color:/	Odor: _	
Purging Flow I				
Did well de-wa		Volume:	gal.	
	Cond	uctivity Temperature	D.O.	ORP
Time (2400 hr	/ Hq	os/cm) (C/F)	(mg/L)	(mV)
•		/		
	/			
		/		
<i></i>	LABORA	TORY INFORMATION		
SAMPLE ID		ERV. TYPE LABORATO	ORY ANA	LYSES
SAMPLE	x voa vial YES	HOL NORTHCR	·····	
	x amber YES	NP NORTHCR		
	x 500ml poly YES	HNO3 NORTHCR	LLK DIGGOLVED LEAD	
1				
	Not sampled d	he to SPH		
COMMENTS	s: Not sampled d	ne to SPH		
COMMENTS	s: Not sampled d	he to SPH		



Client/Facility #:	Chevron #2115	77		Job Number:	386765		
Site Address:	631 Queen Ann	e North		Event Date:	4-23-03		(inclusiv
City:	Seattle, WA			Sampler:	BWN		
Well ID	NW 9	ν	Vell Condition:	oK			
Well Diameter	(2) / 8 in.	ŀ	Hydrocarbon	Ø	Amount Bailed	-7	•
Total Depth	27.70 ft.		hickness:	ft.	(product/water):	gal.	_
Depth to Water	20.04 ft.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38]
	- 1	10	Factor (VF	=) 4"= 0.66	5"= 1.02 6"= 1.50	12"= 5.80]
	7.66 xVF	<u> </u>	_=1.3;	x3 (case volume) = E	stimated Purge Volume	:_ــــgal.	
Purge	Discount to Daller		J	Sampling	Disposable Bailer	· _/	
— . •	Disposable Bailer Stainless Steel Bai		<u> </u>	Equipment:	Pressure Bailer	<u> </u>	-
	Stack Pump	iici		• •	Discrete Bailer		-
	Suction Pump	•			Other:		-
	Grundfos						-
	Other:						
Start Time (purge): 925	Weat	her Conditions:	. Kain			_
Sample Time/Da			Water Color:	clear	Odor:	ho	<u>-</u>
Purging Flow Rat	te: gpm.	Sedime	ent Description				_
Did well de-water	r? <u>no</u>	if yes, Tin	ne:	_ Volume:	gal.		
Time	Volume		Conductivity	Temperature	D.O.	ORP	
(2400 hr.)	(gal.)	pН	(u mhos/cm)	(C/F)	(mg/L)	(mV)	
		·	20.0	3		·	_
929		6.89	338	12.2			_
<u>933</u> 937	2.6 H	6.82	332	12-1			_
15/_		6.71	300			·	_
						,	
		LA	BORATORY INF	ORMATION			
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE		Y ANA	ALYSES	
pm 9	3 x voa vial	YES	HCL	NORTHCREE			
MW 9	x amber	YES	NP LINGS	NORTHCREE NORTHCREE			
MW9	x 500ml poly	YES	HNO3	NORTHURE	IN DIGGOLVED LEAD		
COMMENTS:							
				٨			
Λ elel (D e l = .				Add/Doplood	Oluge S	Size:	
Aud/Replac	ced Lock:			vanuehiacea i	Plug: S	71 2 5	



Client/Facility #:	hevron #211577		Job Number: 3	86765	
	31 Queen Anne No	orth	Event Date:	4-23-09	(inclusiv
	Seattle, WA		Sampler:	BWN	
			-14		
Vell ID	MW 10	Well Condition:	<u>ok</u>	<u></u>	
Vell Diameter	(2) / 8 in.	Hydrocarbon	\mathcal{A}	Amount Bailed	F and
Γotal Depth	29.15 ft.	Thickness:	ft.	(product/water):	gal.
Depth to Water _	11.76 ft.	Volume Factor (V	3/4"= 0.02 (F) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	17.39 xVF_1	<u> </u>		stimated Purge Volume: _	gal.
_	·	1	Sampling	Disposable Bailer	1
	Disposable Bailer			Pressure Bailer	
	Stainless Steel Bailer			Discrete Bailer	
	Stack Pump Suction Pump			Other:	
	Grundfos				
	Other:				
Start Time (purge): 1000 V	Weather Conditions	s: Rain		
Sample Time/Da		Water Colo	r: clear	Odor: _	<u>no</u>
Purging Flow Ra	te: gpm. Se	ediment Description			
Did well de-wate	r? If yes	s, Time:	Volume:	gal.	
` Time	Volume	Conductivity	Temperature	D.O.	ORP
(2400 hr.)	(gal.)	(umhos/cm)	(CIF)	(mg/L)	(mV)
- th: n	- 3 6.8	35L	12.3		
1010	6 6.8		12.2		
10-30	$-\frac{a}{a}$ $\frac{c.7}{c.7}$		11.9		
1030					
		LABORATORY II		NA ANAI	YSES
SAMPLE ID	(#) CONTAINER REF		PE LABORATOR NORTHCREE		1020
MW 10		ES HCL ES NP	NORTHCREE	K TPH-Dx w/sg	
MW 10	1 ' ' '	ES HNO3	NORTHCREE		
<i>j- y- y-</i>					
	70(1/0) 1	aled do class	tansport	to law	
COMMENTS:	TPH LD) ba	ove awing	Monopoly	10 100	
	aced Lock:		Add/Danlaged	Plug:Si	ze:



GETTLER-RYAN INC.

Client/Facility #:	Chevron #211	577	J	lob Number: 3	886765		
Site Address:	631 Queen An	ne North	·	Event Date:	4-23-53		(inclusiv
City:	Seattle, WA			Sampler:	BWN		
Well ID	MW 11	٧	Vell Condition:	ok.			
Well Diameter	(2) / 8 in.	H	- Hydrocarbon	ed.	Amount Bailed	CX	
Total Depth	17,30 ft.		hickness:	ft.	(product/water):	gal.	
Depth to Water	11,09 ft.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38	
	1 21	117	Factor (VF)	4"= 0.66	5"= 1.02 6"= 1.50	12"= 5.80	
	(6,2) xv	F	=x	3 (case volume) = Es	stimated Purge Volume:	gal.	
Purge	Disposable Bailer			Sampling	Disposable Bailer		
Equipment:	Stainless Steel Ba				Pressure Bailer		-
	Stack Pump				Discrete Bailer		•
	Suction Pump				Other:		-
	Grundfos	Victoria					-
	Other:						
Start Time (purg	je): <u>1045</u>	Weat	her Conditions:	Rain			_
Sample Time/D	ate: 1100 /		Water Color:	clear	Odor:	no	
Purging Flow R	ate: gpm.		ent Description:				-
•	ate: gpm.		ent Description: ne:	Volume:			-
Purging Flow R	ate:gpm. er?()	If yes, Tin		Volume:		ORP	-
Purging Flow R Did well de-wat	ate: gpm.		ne:		gal.		-
Purging Flow R Did well de-wat Time (2400 hr.)	ate: gpm. er? <u>v()</u> Volume	If yes, Tin	Conductivity (umhos/cm)	Volume: Temperature (C/F)	gal.	ORP	-
Purging Flow R Did well de-wat Time (2400 hr.)	ate: gpm. er? W) Volume (gal.)	If yes, TimpH	Conductivity (u mhos/cm)	Volume: Temperature (C/F)	gal.	ORP	-
Purging Flow R Did well de-wat Time (2400 hr.)	ate: gpm. er? w) Volume (gal.)	pH 6.8) 6.76	Conductivity (umhos/cm)	Volume: Temperature (C/F)	gal.	ORP	- -
Purging Flow R Did well de-wat Time (2400 hr.)	ate: gpm. er? W) Volume (gal.)	If yes, TimpH	Conductivity (u mhos/cm)	Volume: Temperature (C/F)	gal.	ORP	- - -
Purging Flow R Did well de-wat Time (2400 hr.)	ate: gpm. er? w) Volume (gal.)	pH 6.8) 6.76	Conductivity (umhos/cm)	Volume: Temperature (C/F)	gal.	ORP	- - -
Purging Flow R Did well de-wat Time (2400 hr.)	ate: gpm. er? w) Volume (gal.)	b.8) 6.76 6.72	Conductivity (umhos/cm)	Volume: Temperature (C/F) 12-4 12-1 11.9	gal.	ORP	-
Purging Flow R Did well de-wat Time (2400 hr.) 1048 1051 1054	ate: gpm. er? W) Volume (gal.) 2 3 (#) CONTAINER	b.8) b.7b b.72 LA REFRIG.	Conductivity (umhos/cm) 377 376 369 BORATORY INF	Volume: Temperature (C/F) 2-1 7-1 17-1 17-1 17-1 18-1	gal. D.O. (mg/L)	ORP	-
Purging Flow R Did well de-wat Time (2400 hr.) 1048 1051 1054 SAMPLE ID	ate: gpm. er? W) Volume (gal.) 2 2 3 (#) CONTAINER 3 x voa vial	b.76 b.72 LA REFRIG. YES	Conductivity (umhos/cm) 377 376 369 BORATORY INF	Volume: Temperature (C/F) 2-1 12-1 13-1 13-1 14-1 ORMATION LABORATORY NORTHCREEN	gal. D.O. (mg/L) AN/ TPH-G/BTEX	ORP (mV)	-
Purging Flow R Did well de-wat Time (2400 hr.) 1048 1051 1051 1051 NW II	ate: gpm. er? w() Volume (gai.) 2 3 (#) CONTAINER 3 x voa vial 1 x amber	b.8) b.76 b.72 LA REFRIG. YES YES	Conductivity (umhos/cm) 377 376 369 BORATORY INF PRESERV. TYPE HCL NP	Volume: Temperature (C/F) 12-1 17-1 17-1 NORMATION LABORATORY NORTHCREEN	gal. D.O. (mg/L) AN/ TPH-G/BTEX TPH-Dx w/sg	ORP (mV)	
Purging Flow R Did well de-wat Time (2400 hr.) 1048 1051 1054 SAMPLE ID	ate: gpm. er? W) Volume (gal.) 2 2 3 (#) CONTAINER 3 x voa vial	b.76 b.72 LA REFRIG. YES	Conductivity (umhos/cm) 377 376 369 BORATORY INF	Volume: Temperature (C/F) 2-1 12-1 13-1 13-1 14-1 ORMATION LABORATORY NORTHCREEN	gal. D.O. (mg/L) AN/ TPH-G/BTEX TPH-Dx w/sg	ORP (mV)	
Purging Flow R Did well de-wat Time (2400 hr.) 1048 1051 1051 1051 NW II	ate: gpm. er? W) Volume (gal.)	b.8) b.76 b.72 LA REFRIG. YES YES	Conductivity (umhos/cm) 377 376 360 BORATORY INF	Volume: Temperature (C/F) 12-1 17-1 17-1 NORMATION LABORATORY NORTHCREEN	gal. D.O. (mg/L) AN/ TPH-G/BTEX TPH-Dx w/sg	ORP (mV)	
Purging Flow R Did well de-wat Time (2400 hr.) 1048 1051 1051 1051 NW II	ate: gpm. er? w() Volume (gai.) 2 3 (#) CONTAINER 3 x voa vial 1 x amber	b.8) b.76 b.72 LA REFRIG. YES YES	Conductivity (umhos/cm) 377 376 369 BORATORY INF PRESERV. TYPE HCL NP	Volume: Temperature (C/F) 12-1 17-1 17-1 NORMATION LABORATORY NORTHCREEN	gal. D.O. (mg/L) AN/ TPH-G/BTEX TPH-Dx w/sg	ORP (mV)	

Client/Facility #:	Chevron #2115	577	Jo	ob Number: 3	86765	
Site Address:	631 Queen Ani		E	vent Date:	4-23-03	(inclus
City:	Seattle, WA		S	ampler:	BWN	
				-14		
Well ID	DB1 (MW 12)) w	ell Condition: _	OK		
Well Diameter	(2) / 8 in.		ydrocarbon	es .	Amount Bailed	Ø mal
Total Depth	16.28 ft.	· TI	hickness:	<u>ft.</u>	(product/water):	gal.
Depth to Water	11.0° ft.		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	5.24 xv	_ε , γ)			stimated Purge Volume:	3 gal.
	xv		1			1
Purge	Disposable Bailer	·			Disposable Bailer _	<u> </u>
Equipment:	Stainless Steel B	ailer	· · · · · · · · · · · · · · · · · · ·		Pressure Bailer	
	Stack Pump				-	
	Suction Pump	·			Other:	
	Grundfos					
	Other:					
Start Time (pur Sample Time/l		Weat	her Conditions: Water Color:	Rain		NO
Purging Flow I			ent Description:			
Did well de-wa		If yes, Tim	ne:	Volume:	gal.	
Time (2400 hr	Volume .) (gal.)	рН	Conductivity (u mhos/cm)	Temperature (C/)	D.O. (mg/L)	ORP (mV)
1118		6.91	372	12.3		
112	2	6.88	370	12.2		
112	<u> </u>	187	361	12.2		
			BORATORY INF		av T	ALYSES
SAMPLE ID			PRESERV. TYPE	NORTHCRE		72 / 020
	x voa via		HCL NP	NORTHCRE		
DBI (MV			HNO3	NORTHCRE		
DIS I CAM	A Sooilii poi	,				
COMMENTS	5 :					
				<u> </u>		



	Chevron #211577		Job Number:	380/03		
Site Address:	631 Queen Anne N	orth	Event Date:	4-24-03		(inclusiv
City:	Seattle, WA		Sampler:	BWN		
Well ID	DB 2 (MW 13)	Well Condition:	Unable	to access	5	
Well Diameter	2 / 8 in.	Hydrocarbon		Amount Bailed		
Total Depth	19.90 ft.	Thickness:	ft.	(product/water):	gal.	
Depth to Water	VTA ft.	Volume Factor (V	3/4"= 0.02 F) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50		
	xVF	<u> </u>		Estimated Purge Volume	gal.	
Purge	Dianosoblo Bailor	• •	Sampling	Disposable Bailer		
Equipment:	Disposable Bailer Stainless Steel Bailer		Equipment:	Pressure Bailer		•
• •	Stack Pump			Discrete Bailer		-
	Suction Pump			Other:		-
	Grundfos					-
	Other:					
				/		
Start Time (pur		Weather Conditions	\			
Sample Time/E		Water Color		Odor		-
Purging Flow R		ediment Description				
		•				-
Did well de-wat	er? / If ve	s. Time:	Vofume x	gai.		
Did well de-wat	ter?	s, Time:	_ Volume	gal.		
Time	Volume	Conductivity	Temperature	D.O.	ORP (m)()	
	Volume		_/ \	-	ORP (mV)	
Time	Volume	Conductivity	Temperature	D.O.		_
Time	Volume	Conductivity	Temperature	D.O.		
Time	Volume	Conductivity	Temperature	D.O.		- - -
Time	Volume	Conductivity	Temperature	D.O.		- - -
Time	Volume	Conductivity	Temperature	D.O.		-
Time	Volume (gal.)	Conductivity (u mhos/cm)	Temperature (C/F)	D.O.		- - -
Time	Volume (gal.)	Conductivity	Temperature (C/F)	D.O. (mg/L)		- - - -
Time (2400 hr.)	Volume (gal.) pH	Conductivity (u mhos/cm)	Temperature (C/F) FORMATION E LABORATO NORTHCRE	D.O. (mg/L) RY AN EK TPH-G/BTEX	(mV)	-
Time (2400 hr.)	// CONTAINER REF	LABORATORY IN RIG. PRESERV. TYPES HCL ES NP	FORMATION E LABORATO NORTHCRE NORTHCRE	D.O. (mg/L) RY AN EK TPH-G/BTEX EK TPH-Dx w/sg	(mV)	- - - -
Time (2400 hr.)	// CONTAINER REF	Conductivity (u mhos/cm) LABORATORY IN RIG. PRESERV. TYPES HCL	Temperature (C/F) FORMATION E LABORATO NORTHCRE	D.O. (mg/L) RY AN EK TPH-G/BTEX EK TPH-Dx w/sg	(mV)	
Time (2400 hr.)	// CONTAINER REF	LABORATORY IN RIG. PRESERV. TYPES HCL ES NP	FORMATION E LABORATO NORTHCRE NORTHCRE	D.O. (mg/L) RY AN EK TPH-G/BTEX EK TPH-Dx w/sg	(mV)	
SAMPLE ID	// CONTAINER REF	Conductivity (u mhos/cm) LABORATORY IN RIG. PRESERV. TYP ES HCL ES NP ES HNO3	Temperature (C/F) FORMATION E LABORATO NORTHCRE NORTHCRE	D.O. (mg/L) RY AN EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED LEAR	(mV)	
Time (2400 hr.)	// CONTAINER REF	LABORATORY IN RIG. PRESERV. TYPES HCL ES NP	Temperature (C/F) FORMATION E LABORATO NORTHCRE NORTHCRE	D.O. (mg/L) RY AN EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED LEAR	(mV)	



lient/Facility #:	Chevron #211577		Job Number:	386765	
ite Address:	631 Queen Anne N	lorth	Event Date:	4-24-03	(inclusiv
	Seattle, WA		Sampler:	BWN	
Sity:	Seattle, WA				
Vell ID	DBP (WMH)	Well Condition	Vnable	to access	
Vell Diameter	(2) / 8 in.	Hydrocarbon		Amount Bailed	
	24 45 ft.	Thickness:	ft.	(product/water):	gal.
otal Depth	1. ft.	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38
Depth to Water	11.	Factor (\		5"= 1.02 6"= 1.50	12"= 5.80
	xVF	=	x3 (case volume) = E	Estimated Purge Volume:	gal.
_		•	Sampling	Disposable Bailer	
Purge	Disposable Bailer		Equipment:	Durana Dallas	
Equipment:	Stainless Steel Bailer			<i>-</i>	
(Stack Pump			Other:	
	Suction Pump			Other:	
	Grundfos			/	
	Other:	\rightarrow			
		/			
Start Time (pur	ge):	Weather Condition	s:		
Sample Time/		Water Cold	or:	Odor:	
Purging Flow F		 Sediment Descriptio	n:		
Did well de-wa		es, Time:	/Volume.\	gal.	
		\	/ \		000
Time	Volume pl	Conductivity (u mhos/cry)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
(2400 hr.) (gal.) Pr	(umnos/civ)	(5/1)	\ (3-2)	()
	_ /	<u> </u>		_ \	
	_/	 \ /		- }	
	<i>/</i>	'/			
		/			
-t		LABORATORY	ULCERATION		
	(#) CONTAINER RE	FRIG. PRESERY. TY	PE LABORATO	RY ANA	ALYSES
SAMPLE 10		YES HCL	NORTHCRE		
	X	YES NP	NORTHCRE		
		YES MNO3	NORTHCRE	EK DISSOLVED LEAD	
1	/				
	_i _i		1 .		
			1 11		
COMMENTS	· Vacable to	MCBBB-CON	pasked	over	
COMMENTS	: Vnable to	actis-cor	packed	over	

City: Vell ID Vell Diameter Total Depth	Chevron #211577 631 Queen Anne No Seattle, WA	orth	Event Date:	4-24-	83		(inclusiv
Vell ID Vell Diameter	Seattle, WA						
Vell Diameter			Sampler:	BWW	-		•
	DB 8 [MW 15]	Well Condition:	Unable	to a	CCESS		
otal Denth	(2) / 8 in.	Hydrocarbon		Amount	Bailed		-
otal Debili	24.80 ft.	Thickness:	ft.	(product	/water):	gal.	_
Depth to Water	ft.	Volume Factor (V	3/4"= 0.02 F) 4"= 0.66	1"= 0.04 5"= 1.02	2"= 0.17 6"= 1.50	3"= 0.38 12"= 5.80	
	xVF	=	x3 (case volume) = E	stimated Pur	ge Volume: _	gal.	-
Purge	Disposable Bailer	7	Sampling	Disposabl	e Bailer		
Equipment:	Stainless Steel Bailer		Equipment:	Pressure	Bailer		_
	Stack Pump	/		Discrete E	Bailer _		_
	Suction Pump	/		Other.			-
	Grundfos						
	Other:						
			\rightarrow				
Start Time (purg	۵). N	eather Conditions					
Sample Time/D	· ———————	Water Colo			Odor:		-
Purging Flow Ra		diment Description					_
Did well de-wate	······································	Time:		∖ ga			-
Did Well de-Wall	11 (63,		_	\	••		
Time	Volume	Conductivity	Temperature	\ D.	0.	ORP	
(2400 hr.)	(gal.) pH	(u mhos/cm)	(C/F)	/ (mg	g/L)	(mV)	
		_\		_			
							-
		<u> </u>			-		
	1	LABORATORY IN	FORMATION				
SAMPLE ID <	(#) CONTAINER REFR		LABORATOR	₹Y Y	ANAL	YSES.	
	x voa vial YES		NORTHCREE				
	amber YES		NORTHCREE				
	x 500ml poly YES	s yı́no3	NORTHCREE	EK DISSOL	VED LEAD		
	V						
			1/2/1/200	<u>ntac</u>			
COMMENTS:	Unable to a	coss car	PINICEUN	UVGC			
					· · · · · · · · · · · · · · · · · · ·		



GETTLER-RYAN INC.

Client/Eacility #:	Chevron #211577	J	lob Number:	386765	
Site Address:	631 Queen Anne North		Event Date:	4-24-03	(inclusive
City:	Seattle, WA		Sampler:	BWN	·
			Unable	to access	
Well ID	<u> </u>	ell Condition:	ONAPLO		11
Well Diameter		ydrocarbon	A .	Amount Bailed (product/water):	gal
Total Depth	<u> </u>	nickness:			gal.
Depth to Water	ft.	Volume Factor (VF	3/4"= 0.02) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	xVF	×	3 (case volume) = E	stimated Purge Volume:	gal.
			Sampling	Dianasahla Bailer	
Purge	Disposable Bailer		Equipment:	Disposable Bailer Pressure Bailer	
Equipment:	Stainless Steel Bailer			Discrete Bailer	
	Stack Pump		,	Other:	
	Suction Pump			Outon.	
	Grundfos				
	Other:				
0	Weath	ner Conditions:		•	
Start Time (pur	907.	Water Color:		Odor:	
Sample Time/I		ent Description	7		
Purging Flow F Did well de-wa		ne:	Volume:	gal.	
Did well de-wa	Met !			 -	
Time	Volume	Conductivity	Temperature	D.O. (mg/L)	ORP (mV)
(2400 hr.) (gal.)	(umhes/cm)	(C/F)	(mg/L)	()
		/	/		
<u> </u>	_/)				
)			
/					
	1	BORATORYIN	FORMATION		
SAMPLE ID		PRESERV. TYP	E LABORATO		ALYSES
•	x voa vial YES	HCL	NORTHCRE		
	x amber YES	NP HNO3	NORTHCRE NORTHCRE)
	x 500ml poly YEŞ	HNO3	NORTHCRE	LIX DIOOCEVED LEAD	
COMMENTS	: Vnuble to acce	ess cao	parked	Net	
			<u> </u>		
Δ <i>dd/</i> P ₂	placed Lock:		Add/Replaced	Plug:	Size:
AquiNe	pidoca Look.		-		



GETTLER-RYAN INC.

Client/Facility #:	Chevron #211577		Job Number:	3867 65		
Site Address:	631 Queen Anne N	lorth	Event Date:	4-24-03		(inclusiv
City:	Seattle, WA	-	Sampler:	BWN		
Well ID	0810 (my 17)	Well Condition:	<u>Vhable</u>	to access		
Well Diameter	(2) / 8 in.	Hydrocarbon		Amount Baile	ed	
Γotal Depth	24.85 ft.	Thickness:	ft.	(product/water):gal.	
Depth to Water	ft.	Volume	3/4"= 0.02		0.17 3"= 0.38	
		Factor (V	(F) 4"= 0.66	5"= 1.02 6"=	1.50 12"= 5.80	
	xVF	=	x3 (case volume) = I	Estimated Purge Vol	ume: gal.	
Duras	Diamanahla Dallan	·	Sampling	Dianoschia Bail	lor	
Purge Equipment:	Disposable Bailer		Equipment:	Disposable Bailer Pressure Bailer		•
_qa.po	Stainless Steel Bailer			Discrete Bailer		•
(Stack Pump			Other:		•
`	Suction Pump			Other.		•
	Grundfos					
	Other:	$\overline{}$				
_:	. \	/				
Start Time (pure	·	Weather Conditions				_
Sample Time/D		Water Colo			dor:	-
Purging Flow R	tate: gpm.	sediment Description	n:	/	dor:	- -
Purging Flow R	tate: gpm.	/	n:	gal.	dor:	-
Purging Flow R Did well de-wat	ter? gpm.	sediment Descriptiones, Time:	n:	/	ORP	-
Purging Flow R	Rate: gpm. live	sediment Descriptiones, Time:	n: Volume:	gal.		-
Purging Flow R Did well de-wat	ter? John Volume pH	ediment Descriptiones, Time: Conductivity	Volume:	gal.	ORP	-
Purging Flow R Did well de-wat	ter? John Volume pH	ediment Descriptiones, Time: Conductivity	Volume:	gal.	ORP	- - - -
Purging Flow R Did well de-wat	ter? John Volume pH	ediment Descriptiones, Time: Conductivity	Volume:	gal.	ORP	- - - -
Purging Flow R Did well de-wat	ter? John Volume pH	ediment Descriptiones, Time: Conductivity	Volume:	gal.	ORP	- - - - -
Purging Flow R Did well de-wat	ter? John Volume pH	ediment Descriptiones, Time: Conductivity	Volume:	gal.	ORP	- - - - -
Purging Flow R Did well de-wat	ter? John Volume pH	Sediment Descriptiones, Time: Conductivity (umhos/cm)	Volume: Temperature (C/F)	gal.	ORP	- - - - -
Purging Flow R Did well de-wat	Rate: gpm. Per state: ph. ph. ph. ph. ph. gpm. ph. ph. ph. ph. ph. ph. ph. ph. ph. ph	Conductivity (umhos/cm)	Volume: Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)	- - - - - -
Purging Flow R Did well de-wat	Rate: gpm. ter? Volume (gal.) pH	Conductivity (umhos/cm) LABORATORY IN	Volume: Temperature (C/F) IFORMATION DE LABORATO	gal. D.O. (mg/L)	ORP	-
Purging Flow R Did well de-wat	Volume (gal.) pH	Conductivity (umhos/cm) LABORATORY IN FRIG. PRESERV. TYP	Volume: Temperature (C/F)	gal. D.O. (mg/L) RY EK TPH-G/BTEX	ORP (mV)	-
Purging Flow R Did well de-wat	Volume (gal.) pH (#) CONTAINER REF x voa vial Y x amber Y	Conductivity (umhos/cm) LABORATORY IN	Temperature (C/F) IFORMATION PE LABORATOR NORTHCRE	gal. D.O. (mg/L) RY EK TPH-G/BTEX EK TPH-Dx w/sg	ORP (mV)	-
Purging Flow R Did well de-wat	Volume (gal.) pH (#) CONTAINER REF x voa vial Y x amber Y	LABORATORY IN FRIG. PRESERV. TYP (ES HCL VES NP	Temperature (C/F) IFORMATION PE LABORATOR NORTHCRE	gal. D.O. (mg/L) RY EK TPH-G/BTEX EK TPH-Dx w/sg	ORP (mV)	- - - - -
Purging Flow R Did well de-wat	Volume (gal.) pH (#) CONTAINER REF x voa vial Y x symber Y x 500ml poly Y	Conductivity (umhos/cm) LABORATORY IN FRIG. PRESERV. TYF ES HCL (ES NP	Temperature (C/F) IFORMATION DE LABORATOI NORTHCRE NORTHCRE	gal. D.O. (mg/L) RY EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED L	ORP (mV)	
Purging Flow R Did well de-wat	Cate: gpm. Volume (gal.) PH (#) CONTAINER REF X voa vial Y X amber Y X 500ml poly Y	LABORATORY IN FRIG. PRESERV. TYP (ES HCL VES NP	Temperature (C/F) IFORMATION DE LABORATOI NORTHCRE NORTHCRE	gal. D.O. (mg/L) RY EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED L	ORP (mV)	

Client/Facility #: Ch	nevron #211577		Job Number: 🗵	386765	
	31 Queen Anne N	orth	Event Date: _	4-23.03	(inclusive
_	eattle, WA		Sampler:	BMN	
City: Se	sattic, TVT				
Well ID	Riv 2	Well Condition:	OK		
Well Diameter	2 / (8) in.	Hydrocarbon	A	Amount Bailed	R
Total Depth	21,40 ft.	Thickness:		(product/water):/	gal.
Depth to Water	10:30 ft.	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38
		Factor (V		5"= 1.02 6"= 1.50	12"= 5.80
	xVF	=	x3 (case volume) = E	stimated Purge Volume:	gal.
			Sampling	Disposable Bailer	.1
	isposable Bailer		Equipment:	Pressure Bailer	
	Stainless Steel Bailer		-4		
	Stack Pump			Other:	
	Suction Pump				
	Grundfos				
(Other:				
OL 1 T	าวกก	Weather Conditions	Rain		
Start Time (purge): Sample Time/Date		Water Colo		Odor:	NO
Purging Flow Rate	_	Eediment Description			
Did well de-water	٠. <u></u>	es, Time:		gal.	
Dia won do water				D.O.	ORP
Time	Volume pH	Conductivity (u mhos/cm)	Temperature (C/ ^{(c})	(mg/L)	(mV)
(2400 hr.)	(gal.)	(a minos/only	`,','		
1205	5 6.8	36 317	12.3		
1243					· · · · · · · · · · · · · · · · · · ·
			_		
		LABORATORY II		DV ANAI	LYSES
SAMPLE ID	(11) 00111111111111111111111111111111111	FRIG. PRESERV. TY	NORTHCRE		
PW Z	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	YES HCL YES NP	NORTHCRE	EK TPH-Dx w/sg	
RW 2 RW 2		YES HNO3	NORTHCRE	EK DISSOLVED LEAD	
,					
	1	1 : [:	1 = 1 = 1	nd hailed E	al their
COMMENTS:	Une to in	acressible 19	ication no	and bailed 5 g	W I V
samp (A. Inside	locked gast	e aseu		
		-			
Add/Repla	ced Lock:	_	Add/Replaced	d Plug:S	ize:

lient/Facility #:	Chevron #211	577		Job Number:	386765				
ite Address:	631 Queen An			Event Date:	4-23-	の		inclusi	
city:	Seattle, WA			Sampler:	BMN			-	
Vell ID	RW 3		Vell Condition:	VTL					
Vell Diameter	2 / 8 in.		lydrocarbon		Amoun	t Bailed		•	
otal Depth	ft.		hickness:	ft.	(produc				
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 =x3 (case volume) = Estimated Purge Volume:g						
	x\	/F	=	x3 (case volume) = 1	Estimated Pu	urge volume:	gai.		
^o urge	Disposable Baile	r		Sampling	Disposab	ole Bailer		_	
Equipment:	2.0000000000000000000000000000000000000			Equipment:	Pressure	Bailer		_	
	Stack Pump				Discrete	Bailer			
	Suction Pump				Other:				
	Grundfos								
	Other:			·					
Start Time (purg		Weat	her Conditions					_	
	ate:/			••		Odor: _		_	
Purging Flow R			ent Description						
Did well de-wat	er?	If yes, Tin	ne:	_ Volume:	9 ²	al.			
Time	Volume	pН	Conductivity	Temperature		0.0.	ORP		
(2400 hr.)	(gal.)	μ	(u mhos/cm)	(C/F)	(m	ng/L)	(mV)		
						· · · · · ·		-	
								_	
C								_	
			DODATORY IN	CODMATION					
SAMPLE ID	(#) CONTAINER	REFRIG.	BORATORY IN		RY	ANA	LYSES		
	x voa via		HCL	NORTHCRE	EK TPH-G	S/BTEX			
	x amber	YES	NP	NORTHCRE		x w/sg			
	x 500ml poly	YES	HNO3	NORTHCRE	EK DISSO	DLVED LEAD			
	·								
						a			
COMMENTS:	Unablo	to loc	iate-lac	ge sewe	ir vaul	it in o	VODEOZ ?	arta	



GETTLER-RYAN INC.

menur acility m.	Chevron #211577		Job Number: 3	886765		
Site Address:	631 Queen Anne N	lorth	Event Date:	4.23-93	(inclusiv
	Seattle, WA		Sampler:	BWN		
City:	Seattle, WA					
Vell ID	RN H	Well Condition	: Unable 1	o NUCES		
Vell Diameter	2 / (8) in.	Hydrocarbon		Amount Bailed		
Total Depth	3278 ft.	Thickness:	ft.	(product/water):	gal.	
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) = E	stimated Purge Volume:	gal.	
		•				
Purge	Disposable Bailer	-		Disposable Bailer Pressure Bailer		
Equipment:	Stainless Steel Bailer			-		
	Stack Pump			Discrete Bailer		
	Suction Pump			Other:		,
\	Grundfos		•			
	\Other:	/	. /			
Start Time (pur	ge):/	Weather Condition				-
Sample Time/D	Date: / /	Water Cold	or:	Odor:		-
Purging Flow F	10.10	Sediment Description				-
Did well de-wa	iter? If y	es, Time:	Vølume:	gal.		
		Conductivity	Temperature	D.O.	ORP	
Time (2400 hr.)	Volume pl	(umhos/cm)	(C/F)	(mg/L)	(mV)	
(2400 111.) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	•	/			_
	 /	$\overline{}$				
	/	\				_
	_/	<i>`</i>				- -
	_/ =					
		LABORATORY	NFORMATION			- - - -
SAMPLE ID	(#) CONTAINER RE	FRIG. PRESERV. T	PE LABORATOR		ALYSES	
SAMPLE ID	x voa vial	YES HOL	YPE LABORATOR NORTHCREE	K TPH-G/BTEX	ALYSES	
SAMPLE ID	x voa vial	YES NP	YPE LABORATOR NORTHCREE	EK TPH-G/BTEX EK TPH-Dx w/sg		-
SAMPLE ID	x voa vial	YES HOL	YPE LABORATOR NORTHCREE	EK TPH-G/BTEX EK TPH-Dx w/sg		
SAMPLE ID	x voa vial	YES NP	YPE LABORATOR NORTHCREE	EK TPH-G/BTEX EK TPH-Dx w/sg		
	x voa vial x amber x 500ml poly	YES HOE YES HOE YES HOO YES HOO YES HOO YES HOO YES HOO YES	YPE LABORATOF NORTHCREE NORTHCREE	EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED LEAD		
SAMPLE ID	x voa vial x amber x 500ml poly	YES NP	YPE LABORATOF NORTHCREE NORTHCREE	EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED LEAD		
	x voa vial x amber x 500ml poly	YES HOE YES HOE YES HOO YES HOO YES HOO YES HOO YES HOO YES	YPE LABORATOF NORTHCREE NORTHCREE	EK TPH-G/BTEX EK TPH-Dx w/sg EK DISSOLVED LEAD		



GETTLER-RYAN INC.

lient/Facility #: _C	Chevron #211577		Job Number: 🙎	38676 <u>5</u>	
ite Address:	31 Queen Anne N	orth	Event Date: _	4.29.05	(inclusiv
ity:	Seattle, WA		Sampler:	BWN	NLM array
	0.15) A/ II O	ok		
Vell ID	RW 5	Well Condition:	<u> </u>		`
Vell Diameter _	2 / 8 in.	Hydrocarbon	Ø.	Amount Bailed	Y
otal Depth _	14.25 ft.	Thickness:		(product/water):	gal.
epth to Water _)(.3) ft.	Volume Factor (VI	3/4"= 0.02 F) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	xVF	=	x3 (case volume) = E	stimated Purge Volume:	3gal.
		./	Sampling	Diamarahia Dailan	<i>[</i>
	Disposable Bailer	<u></u>		Disposable Bailer	Y
	Stainless Steel Bailer		• •	Pressure Bailer	
	Stack Pump			Discrete Bailer	
	Suction Pump			Other:	
	Grundfos				
	Other:				
Peart Time (: 1230	Weather Conditions	: Rain		. ^
Start Time (purge)	***************************************	Water Color		Odor: &	The transfer
Sample Time/Dat		ediment Description		Oddi. <u>Z</u>	71 19.11
Purging Flow Rat Did well de-water		s, Time:		gal.	and the second s
Did well de-water	? <u>ho</u> If ye	s, illie	volume	yaı.	
Time	Volume pH	Conductivity	Temperature	D.O.	ORP
(2400 hr.)	(gal.)	(u mhos/cm)	(C/F)	(mg/L)	(mV)
17 40	3 6.	79 361	12.0		
1240	2 6.	19 _ 361	12-0		
<u> </u>					· · · · · · · · · · · · · · · · · · ·
		LABORATORY IN	···	Y ANALY	Vece
SAMPLE ID	<u> </u>	RIG. PRESERV. TYP	E LABORATOR NORTHCREE		1050
RW 5		ES NP	NORTHCREE		
1337 - 1		ES HNO3	NORTHCREE	K DISSOLVED LEAD	
RW S					
RW S					
		1 1	1	1 1 1 2 5 7	H. cri
COMMENTS:	One to inac	cessible low	ition have	a builted 3 gar	then
	One to inace Var	cossible low	ution have	a bailed 3 gal	then

х сору	JI LC	יי עו			_ ****	a. #	7115/	,								Chev	ron Cor	itact:		(Name) [
			C	hevro	n Facility	#: <u>#</u> 6' es: 6	31 OU	EN ANI	VE NO	RTH, S	EATTL	E, WA			İ	Labo	ratory f	lame:		NORTH					
				Facili	it Project	±. 38	86765	80						·	1		ratory S		•	<u> </u>					
hevron Produ P.O. Box 60	ct Co. 04		Con	Sultan		_		1 DVAN	INC.								ratory S			_					
n Ramon, CA	94583		,		Addra	·ss: 6	747 SI	ERRA C	OURI	SUIT	J, DU	BLIN, C	A 9456	08	1		ples Co	llected	by: (Nan	ne)	Ben	Ne	Nfor		
AX: (925) 842	!-8370			Prof	ect Cont	act: (I	Name) [EANNA	L. HA	RDING							ature:	1	Bur	MI	ron				
		ł		•		(1	Phone)	25-551	-7555		(100)		1-7899	☐ OR	ŪwA	□ NV	/ 🗆 M	/ Serie	s Πα) 🗆 r	r 🗆 10				Remarks DISSOLVED
		┵		T		T				<u>S</u>	tate Me	ethod:	<u>La</u>	<u> </u>	<u> </u>						g	!	-3		LEAD MAS
					-		(8015		Ì			s		l	1					J86	Alkalinity/Nitrate/Sulfate		Lead		Paramo.
	Ę.		c						1	ļ	Oxygenates	r o on	<u> </u>	Organics		₹ ₹		Ę.			ate/9			7	Please. Filter
	taine	-	vatio								cygei	aloca	rgan	Org	ase.	Zu,		E/Na	و	tend	Nic.	Lou	- 볼		Filter
E P	of Containers	Đ.	eser		eg.	- 1	EX +	25 EX	186	-E	6	Purgeable Haiocarbons (8010)	Purgeable Organics (8260)	Extractable ((8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni		BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended	E I	Ferrous Iron	Dissolved	1	
S S	ا و ا	₹ Ö	e P		Date/Time		18/3	5 + 6	ta	TPH Diesel (8015)	(8260)	2 (S	geat 260)	270)	1 and	d, C	втех (8020)	302(E	Ĭ₽	Alka	Ferr	0		Lab, Sample N
Sample Number	Number	Matrix Se Soll A=Air W=Water C=Chartoal	Sample Preservation		Date		TPH-G/BTEX+MTBE +8021)	тен-G/втех (8015 + 8021)	BTEX + MTBE (8260)	H 08	[8]	₹8	<u>\$</u> 89	<u> </u>	85	Σ0	83	80							0
TR LB	-	W	_	1 4	-23-03			X											1	X			X		5
16 17	5	-	1		24-63	1		X				ļ					 			X			1		
VP Z	5	+		1		940		X					 	-	-	-				X			X		0
VP 8	5	1		1		1015		X			 	↓	 		 			1	1	X			X		
VP 9	5		H			०५०		X			ļ		 	-	╂	╁──	 	†	1	X			Z		
<u> </u>	5	+		4	-23-03			X		<u> </u>	<u> </u>	ļ	 	┼	-	+	+	1		X			X		*
MW 9	5	H	T	+		145	T	X					-	┼─	-	 	-	1	1				X		
MW 10	3	H	$\dagger \dagger$			35	1	X				ļ	-	-		+	+-	1		X			X		Oxy's (82
mw 11	5	++	\dagger			60		X			<u> </u>	 				+	+-	+	+	X			X		1 - MTBE
	 	┼┼	Н			30	1	X						 		-	┼	+		X			X		2 - TBA 3 - TAME
B 1 (WM 15)	1	┼┼	+			20	1	X				<u> </u>					-	+		+	+		X		4 - DIPE
RW2	5	\sqcup	\bot				+	X	1	1			İ			_		-}		- -		+-	+		5 - ETBE 6 - 1,2-DC
RW.5	5	14	14		♦ i	250	4	+	-	1-					<u> </u>							+	-		7 - EDB
			_				 		┼─			+				Τ.								<u> </u>	8 - ETHAN
			\perp				ļ	Time	Rece	ved Bv	(Signat	ure)		Orga	nization	Ī	ate/Tin	ne	Iced	(Y/N)		Turn	Around T	īme (Cl	rcie Choice)
Relinquished E	y (Sigr	nature)		Organiz	ation	Date,					•				1									
Bu	1/4	włe	1		CPJ	no		315	4	tion of State	/Signati	hire)		Orga	nization	,	Date/Tin	ne	Ice	(Y/N)		, G1	्रा०	24 Hrs.	
Relinquished (<u>. </u>		Organia	zation	Date	Time	Rece	ivea by	(Signal					1						rop	4	18 Hrs.	
										·							Date/Tir	me	Ice	d (Y/N)			1	5 Days 10 Days	_
Relinquished	*		<u></u>		Organi	zation	Date	/Time	Reco	lved Fo	r Labor	atory By	(Signat	ure)			4-24	1.03 15:25					As	Contract	ted



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244

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Bend

2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210 **Anchorage**

07 May 2003

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 04/24/03 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Jeanne Garthwate

Project Manager



Gettler-Ryan Inc. - Dublin

6747 Sierra Ct, Suite G

Dublin CA/USA, 94568

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Project: Chevron #21-1577

Project Number: 386765.80

Project Manager: Deanna Harding

Reported:

05/07/03 15:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB LB	B3D0543-01	Water	04/23/03 12:00	04/24/03 15:25
VP 1	B3D0543-02	Water	04/24/03 09:15	04/24/03 15:25
VP 2	B3D0543-03	Water	04/24/03 09:40	04/24/03 15:25
VP 8	B3D0543-04	Water	04/24/03 10:15	04/24/03 15:25
VP 9	B3D0543-05	Water	04/24/03 10:40	04/24/03 15:25
MW 4	B3D0543-06	Water	04/23/03 09:15	04/24/03 15:25
MW 9	B3D0543-07	Water	04/23/03 09:45	04/24/03 15:25
MW 10	B3D0543-08	Water	04/23/03 10:35	04/24/03 15:25
MW 11	B3D0543-09	Water	04/23/03 11:00	04/24/03 15:25
DB 1 (MW 12)	B3D0543-10	Water	04/23/03 11:30	04/24/03 15:25
RW 2	B3D0543-11	Water	04/23/03 12:20	04/24/03 15:25
RW 5	B3D0543-12	Water	04/23/03 12:50	04/24/03 15:25

North Creek Analytical - Bothell

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Anchorage 2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119

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

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

05/07/03 15:49

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TD I D (D2D0542 01) Western	Sampled: 04/23/03 12	.00 Densive	d: 04/24/0	2 15.25					
TB LB (B3D0543-01) Water									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3D29021	04/29/03		NWTPH-Gx/8021B	
Benzene	ND	0.500	**	11	11	11	" "	**	
Toluene	ND	0.500	11		11	"	**	11	
Ethylbenzene	ND	0.500	11	**	**	**	*11	11	
Xylenes (total)	ND	1.00	11	11	*1	11	**	tt	
Surrogate: 4-BFB (FID)	103 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	62-120			"	"	"	11	
VP 1 (B3D0543-02) Water 5	Sampled: 04/24/03 09:1	5 Received	: 04/24/03	15:25					
Gasoline Range Hydrocarbor	ns 24200	2500	ug/l	50	3D29021	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	110	25.0	**	H	11	**	11	tt .	
Toluene	136	25.0	**	"	**	11	11	11	
Ethylbenzene	225	25.0	11	tt	91	11	"	11	
Xylenes (total)	2780	50.0	. 11	11	11		"	11 ·	
Surrogate: 4-BFB (FID)	102 %	57-125			"	n	n	"	
Surrogate: 4-BFB (PID)	108 %	62-120			"	"	"	"	
VP 2 (B3D0543-03) Water	Sampled: 04/24/03 09:4	0 Received	: 04/24/03	15:25					
Gasoline Range Hydrocarbon	ns 6230	1000	ug/l	20	3D29021	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	549	10.0	11	11	, 11	11	"	"	
Toluene	42.6	10.0	**	11	11	11	11	11	
Ethylbenzene	106	10.0	11	H	"	11	11	11	
Xylenes (total)	1120	20.0	11	"	11	. "	11	tt	
Surrogate: 4-BFB (FID)	105 %	57-125			"	"	"	. "	
Surrogate: 4-BFB (PID)	111 %	62-120			n	"	"	"	

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.

Stanne Garthart

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: 386765.80 Project Manager: Deanna Harding

Reported: 05/07/03 15:49

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
VP 8 (B3D0543-04) Water	Sampled: 04/24/03 10:15	Received:	04/24/03 1	15:25	·				
Gasoline Range Hydrocarb		125	ug/l	2.5	3D29021	04/29/03		NWTPH-Gx/8021B	
Benzene	65.6	1.25	"	"	II .	11	11	"	
Toluene	35.7	1.25	"	**	"	11	11	"	
Ethylbenzene	22.9	1.25	"	"	**	11	Ħ	"	
Xylenes (total)	69.8	2.50	"	!!	#			"	
Surrogate: 4-BFB (FID)	98.8 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	126 %	62-120			"	#	"	"	S-04
VP 9 (B3D0543-05) Water	Sampled: 04/24/03 10:40	0 Received	: 04/24/03	15:25					
Gasoline Range Hydrocarbo		50.0	ug/l	1	3D29021	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	n	"	. "	**	11	11	
Toluene	ND	0.500	"	11	Ħ	11	11	"	
Ethylbenzene	ND	0.500	**	n	11	. "	tt	"	
Xylenes (total)	ND	1.00	11	11		11	**	11	
Surrogate: 4-BFB (FID)	91.2 %	57-125			n	"	"	"	
Surrogate: 4-BFB (PID)	109 %	62-120			"	"	"	<i>"</i>	
MW 4 (B3D0543-06) Water	er Sampled: 04/23/03 09	:15 Receive	ed: 04/24/0	3 15:25					
Gasoline Range Hydrocar		10000	ug/l	200	3D29021	04/29/03	04/30/03		
Benzene	8990	100	11	"	11	***	**	"	
Toluene	7350	100	11	11	**	11	. 11	11	
Ethylbenzene	1780	100	11	11	"	11	11	II	
Xylenes (total)	10300	200	H	11	11	H			
Surrogate: 4-BFB (FID)	104 %	57-125			"	"	#	"	
Surrogate: 4-BFB (PID)	110 %	62-120			"	"	"	n	

North Creek Analytical - Bothell

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Jeanne Garthwate



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

Project: Chevron #21-1577

Anchorage

Project Number: 386765.80

Project Manager: Deanna Harding

Reported:

05/07/03 15:49

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

		Reporting					-		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 9 (B3D0543-07) Water S	ampled: 04/23/03 09:45	Receive	d: 04/24/03	15:25					
Gasoline Range Hydrocarbons	6760	1000	ug/l	20	3D29021	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	388	10.0	11	11	11	u	11	**	
Toluene	15.9	10.0	"	11	11	. "	W.	tt	
Ethylbenzene	277	10.0	**	11	11	11	11	II	
Xylenes (total)	105	20.0	11	"	11	**	11	H	
Surrogate: 4-BFB (FID)	109 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	116%	52-120			n	n	"	u	
MW 10 (B3D0543-08) Water	Sampled: 04/23/03 10:	35 Receiv	ed: 04/24/0	3 15:25					
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3D29023	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	**	11	н	n	**		
Toluene	ND	0.500	**	11	11	Ħ	tt	tt	
Ethylbenzene	ND	0.500	H	11	11	11	11	"	
Xylenes (total)	ND	1.00	**	11	**	11	11	11	
Surrogate: 4-BFB (FID)	95.0 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	62-120			#	17	tt	<i>tt</i>	
MW 11 (B3D0543-09) Water	Sampled: 04/23/03 11:	00 Receiv	ed: 04/24/	03 15:25					
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3D29023	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	н	11	"	"	**	11	
Toluene	ND	0.500	"	"	"	**	"	11	
Ethylbenzene	ND	0.500	tt	"	ti	81	tr	11	
Xylenes (total)	ND	1.00	**	11	**	"	11	11	
Surrogate: 4-BFB (FID)	93.3 %	57-125			" "	"	"	n	
Surrogate: 4-BFB (PID)	101 %	62-120			n	"	"	n .	
·									

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.

Seanne Garthwater



Gettler-Ryan Inc. - Dublin

6747 Sierra Ct, Suite G

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2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210

Anchorage

Project: Chevron #21-1577

Project Number: 386765.80

Reported:

Project Manager: Deanna Harding

05/07/03 15:49

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
DB 1 (MW 12) (B3D0543-10) Water	Sampled: 04/2	3/03 11:30	Received	: 04/24/03 15	5:25				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3D29023	04/29/03	04/30/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	11	11	"	**	**	W	
Toluene	ND	0.500	Ħ	tt	**	"	**	"	
Ethylbenzene	ND	0.500	11		"	tt	**	N	
Xylenes (total)	ND	1.00	ti	tt .	11	"	H .	11	
Surrogate: 4-BFB (FID)	93.5 %	57-125			n	st .	"	· <i>n</i>	
Surrogate: 4-BFB (PID)	102 %	62-120			"	n	"	ņ	
RW 2 (B3D0543-11) Water Sample	ed: 04/23/03 12:	20 Receive	ed: 04/24/0	3 15:25	-				
Gasoline Range Hydrocarbons	55.7	50.0	ug/l	1	3D29023	04/29/03	04/30/03		
Benzene	ND	0.500	11	"	. 11	"	Ħ	11	
Toluene	ND	0.500	n	"	**	**	11	n	
Ethylbenzene	0.642	0.500	**	· ·	**	"	**	**	
Xylenes (total)	2.64	1.00	11	11	н ,	11		"	
Surrogate: 4-BFB (FID)	93.3 %	57-125			"	n	"	Ħ	
Surrogate: 4-BFB (PID)	100 %	62-120			"	"	"	n	
RW 5 (B3D0543-12) Water Sampl	ed: 04/23/03 12	:50 Receiv	ed: 04/24/	03 15:25	· · · • · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
Gasoline Range Hydrocarbons	2490	500	ug/l	10	3D29023	04/29/03	04/30/03		
Benzene	9.73	5.00	n	**	11	**	**	u u	
Toluene	13.4	5.00	"	*1	11	"	**	11	
Ethylbenzene	ND	5.00	"	**	11		н .	11	
Xylenes (total)	870	10.0	"		11 .		tl		
Surrogate: 4-BFB (FID)	91.2 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	109 %	62-120			"	<i>n</i> -	"	# :	

North Creek Analytical - Bothell

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Jeanne Garthwate



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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G

Project: Chevron #21-1577

Project Number: 386765.80

Reported:

Dublin CA/USA, 94568

Project Manager: Deanna Harding

05/07/03 15:49

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP 1 (B3D0543-02) Water Samp	led: 04/24/03 09:15	Received:	04/24/03 1	15:25					
Diesel Range Hydrocarbons	2.83	0.250	mg/l	1	3D25012	04/28/03	04/30/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	**	11	11	11	11	
Surrogate: 2-FBP	118 %	50-150			n	"	"	"	
Surrogate: Octacosane	100 %	50-150			"	"	"	"	
VP 2 (B3D0543-03) Water Samp	led: 04/24/03 09:40	Received:	04/24/03	15:25					
Diesel Range Hydrocarbons	12.1	1.25	mg/l	5	3D25012	04/28/03	04/30/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	2.50		11	11	n		11	
Surrogate: 2-FBP	71.9 %	50-150			"	n	"	и ,	
Surrogate: Octacosane	73.6 %	50-150			"	"	n	n	
VP 8 (B3D0543-04) Water Samp	led: 04/24/03 10:1	5 Received:	04/24/03	15:25					
Diesel Range Hydrocarbons	0.800	0.250	mg/l	1	3D25012	04/28/03	04/30/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500		11	"	. 0	11	11	
Surrogate: 2-FBP	101 %	50-150			#	n	"	n	
Surrogate: Octacosane	82.7 %	50-150			u	"	"	n	
VP 9 (B3D0543-05) Water Samp	oled: 04/24/03 10:4	0 Received	: 04/24/03	15:25					
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3D25012	04/28/03	04/29/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	**	11	H	Ħ	"	"	
Surrogate: 2-FBP	85.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	79.6 %	50-150			"	"	"	"	
MW 4 (B3D0543-06) Water Sar	npled: 04/23/03 09	:15 Receive	ed: 04/24/0	3 15:25					
Diesel Range Hydrocarbons	1.68	0.250	mg/l	1	3D25012	04/28/03	04/30/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	**	"	11	"	11	11	
Surrogate: 2-FBP	109 %	50-150			"	,,	ff	ii	
Surrogate: Octacosane	94.4 %	50-150			"	"	"	"	

North Creek Analytical - Bothell

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Jeanne Garthwate



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

Project: Chevron #21-1577

Project Number: 386765.80

Project Manager: Deanna Harding

Reported:

05/07/03 15:49

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 9 (B3D0543-07) Water S	Sampled: 04/23/03 09:	45 Received	1: 04/2 <u>4/03</u>	15:25					
Diesel Range Hydrocarbons	3.68	0.250	mg/l	1 .	3D25012	04/28/03	04/29/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	H	**	11	11		
Surrogate: 2-FBP	120 %	50-150			"	"	"	"	
Surrogate: Octacosane	104 %	50-150			"	n	"	"	
MW 11 (B3D0543-09) Water	Sampled: 04/23/03 11	:00 Receiv	ed: 04/24/0	3 15:25					
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3D25012	04/28/03	04/30/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	H	11	**	11	"	. "	
Surrogate: 2-FBP	107 %	50-150			"	n	"	"	
Surrogate: Octacosane	100 %	50-150			"	n	"	"	
DB 1 (MW 12) (B3D0543-10)	Water Sampled: 04/	23/03 11:30	Received:	04/24/03 1	5:25				
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3D25012	04/28/03	04/29/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	11	11	"	"	11	
Surrogate: 2-FBP	99.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	90.7 %	50-150			"	"	"	**	
_	Sampled: 04/23/03 12:	20 Receive	d: 04/24/03	15:25					
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3D25012	04/28/03	04/30/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	11	11	11	11		
Surrogate: 2-FBP	112 %	50-150		•	"	"	n	"	
Surrogate: Octacosane	99.4 %	50-150			"	"	n	"	
	Sampled: 04/23/03 12	:50 Receive	ed: 04/24/03	3 15:25					
Diesel Range Hydrocarbons	2.05	0.250	mg/l	1	3D25012	04/28/03	04/29/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons		0.500	n		11	11	11	11	
Surrogate: 2-FBP	108 %	50-150			"	"	"	"	
Surrogate: 2-r br Surrogate: Octacosane	89.4 %	50-150			"		"	"	

North Creek Analytical - Bothell

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Slavne Garthwate



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

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

05/07/03 15:49

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP 1 (B3D0543-02) Water	Sampled: 04/24/03 09:15	Received	: 04/24/03 1	5:25					Q-30
Lead	0.0364	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
VP 2 (B3D0543-03) Water	Sampled: 04/24/03 09:40	Received	: 04/24/03 1	5:25					Q-30
Lead	0.00152	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
VP 8 (B3D0543-04) Water	Sampled: 04/24/03 10:15	Received	: 04/24/03 1	15:25					Q-30
Lead	0.00373	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
VP 9 (B3D0543-05) Water	Sampled: 04/24/03 10:40	Received	: 04/24/03 1	15:25					Q-30
Lead	ND	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
MW 4 (B3D0543-06) Water	r Sampled: 04/23/03 09:1	5 Receive	d: 04/24/03	3 15:25					Q-30
Lead	0.00574	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
MW 9 (B3D0543-07) Water	r Sampled: 04/23/03 09:4	5 Receive	d: 04/24/03	3 15:25					Q-30
Lead	0.00131	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
MW 10 (B3D0543-08) Water	er Sampled: 04/23/03 10	:35 Receiv	ved: 04/24/0	03 15:25					Q-30
Lead	ND	0.00100	mg/l	1	3D25008	04/25/03	04/25/03	EPA 6020	
MW 11 (B3D0543-09) Wat	er Sampled: 04/23/03 11	:00 Receiv	ved: 04/24/0	03 15:25					Q-30
Lead	ND	0.00100	mg/l	1	3D25008	04/25/03	04/26/03	EPA 6020	
DB 1 (MW 12) (B3D0543-1	0) Water Sampled: 04/2	3/03 11:30	Received:	04/24/03 1	5:25				Q-30
Lead	ND	0.00100	mg/l	1	3D25008	04/25/03	04/26/03	EPA 6020	

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: 386765.80

Project Manager: Deanna Harding

Reported:

05/07/03 15:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW 2 (B3D0543-11) Water	Sampled: 04/23/03 12:20) Received	: 04/24/03	15:25					Q-30
Lead	ND	0.00100	mg/l	. 1	3D25008	04/25/03	04/26/03	EPA 6020	
RW 5 (B3D0543-12) Water	Sampled: 04/23/03 12:5	0 Received	: 04/24/03	15:25					Q-30
Lead	0.00731	0.00100	mg/l	1	3D25008	04/25/03	04/26/03	EPA 6020	

North Creek Analytical - Bothell

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



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%REC

Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G

Dublin CA/USA, 94568

Project: Chevron #21-1577

Spike

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

RPD

05/07/03 15:49

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

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3D29021: Prepared 04/29/03	Using EF	PA 5030B ((P/T)							
Blank (3D29021-BLK1)										
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	*1							
Toluene	ND	0.500	*1							
Ethylbenzene	ND	0.500	**							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	49.8		"	48.0		104	57-125			
Surrogate: 4-BFB (PID)	53.4		"	48.0		111	62-120			
LCS (3D29021-BS1)										
Gasoline Range Hydrocarbons	494	50.0	ug/l	500		98.8	80-120			
Surrogate: 4-BFB (FID)	53.7		"	48.0		112	57-125			
LCS (3D29021-BS2)										
Benzene	8.51	0.500	ug/l	10.0		85.1	80-120			
Toluene	9.39	0.500	. "	10.0		93.9	80-120			
Ethylbenzene	9.58	0.500	11	9.80		97.8	80-120			
Xylenes (total)	29.3	1.00	n	30.0		97.7	80-120			
Surrogate: 4-BFB (PID)	51.9		"	48.0		108	62-120			
LCS Dup (3D29021-BSD1)										
Gasoline Range Hydrocarbons	476	50.0	ug/l	500		95.2	80-120	3.71	25	
Surrogate: 4-BFB (FID)	50.0		#	48.0		104	57-125			
LCS Dup (3D29021-BSD2)										
Benzene	9.04	0.500	ug/l	10.0		90.4	80-120	6.04	40	
Toluene	9.82	0.500	**	10.0		98.2	80-120	4.48	40	
Ethylbenzene	10.2	0.500	"	9.80		104	80-120	6.27	40	
Xylenes (total)	31.0	1.00	u	30.0		103	80-120	5.64	40	
Surrogate: 4-BFB (PID)	52.5		"	48.0		109	62-120			

North Creek Analytical - Bothell

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Jeanne Garthwate



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

Project: Chevron #21-1577

Anchorage

Project Number: 386765.80

Project Manager: Deanna Harding

Reported:

05/07/03 15:49

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

								%REC		RPD	
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
	Prepared 04/29/03		A 5030B (P/T)							
Batch 3D29021:		Come Di	1120002	- · /		Source: H	33D0543-0)5			
Matrix Spike (3D29		520	50.0	ug/l	500	24.3	99.1	70-130			
Gasoline Range Hydroc	arbons		70.0	"			114	57-125			
Surrogate: 4-BFB (FID)	54.8			48.0						
Matrix Spike (3D29	021-MS2)						B3D0543-0				
Benzene		8.79	0.500	ug/l	10.0	ND	87.9	80-134			
Toluene		9.87	0.500	**	10.0	0.230	96.4	68-114			
Ethylbenzene		9.79	0.500	#	9.80	0.142	98.4	72-128			
Xylenes (total)		30.0	1.00	11	30.0	0.621	97.9	67-125			
Surrogate: 4-BFB (PIL	D)	51.4		"	48.0		107	62-120			
Matrix Spike Dup (Source:	B3D0543-	05			
Gasoline Range Hydro		495	50.0	ug/l	500	24.3	94.1	70-130	4.93	25	
Surrogate: 4-BFB (FII		52.9		"	48.0		110	57-125			
Matrix Spike Dup						Source:	B3D0543-	.05		-	
Benzene	(3D23021-1413D2)	8.92	0.500	ug/l	10.0	ND	89.2	80-134	1.47	40	
Toluene		9.60	0.500	ıı	10.0	0.230	93.7	68-114	2.77	40	
Ethylbenzene		9.98	0.500	11	9.80	0.142	100	72-128	1.92	40	
Xylenes (total)		30.0	1.00	11	30.0	0.621	97.9	67-125	0.00	40	
Surrogate: 4-BFB (PI	D)	51.9		н	48.0		108	62-120			
_		lleing F	PA 5030B	(P/T)							
Batch 3D29023:	Prepared 04/29/03	y Using L	1 A 3030B	(1/2)							-
Blank (3D29023-B			50.0	a/l							
Gasoline Range Hydr	ocarbons	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 (F	ID)	46.5		"	48.0 48.0		96.9 99.4	57-125 62-120			
		47.7		"							

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 Garthatt



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0/DEC

DDD

Gettler-Ryan Inc. - Dublin Project: Chevron #21-1577

6747 Sierra Ct, Suite G Project Number: 386765.80 Reported: 05/07/03 15:49 Project Manager: Deanna Harding Dublin CA/USA, 94568

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

]	Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3D29023: Pr	epared 04/29/03	Using EP	A 5030B (P/T)							
LCS (3D29023-BS1)											
Gasoline Range Hydrocarbon	ns	477	50.0	ug/l	500		95.4	80-120			
Benzene		6.10	0.500	"	6.65		91.7	80-120			
Toluene		34.8	0.500	**	37.0		94.1	80-120			
Ethylbenzene		8.97	0.500	11	8.55		,105	80-120			
Xylenes (total)		43.0	1.00	11	43.0		100	80-120			
Surrogate: 4-BFB (FID)		49.5		"	48.0		103	57-125			
Surrogate: 4-BFB (PID)		46.8		n	48.0		97.5	62-120			
LCS Dup (3D29023-BS)	D1)									<u>.</u>	
Gasoline Range Hydrocarbo	ns	414	50.0	ug/l	500		82.8	80-120	14.1	25	
Benzene		5.93	0.500	**	6.65		89.2	80-120	2.83	40	
Toluene		33.5	0.500	11	37.0		90.5	80-120	3.81	40	
Ethylbenzene		8.67	0.500		8.55		101	80-120	3.40	40	
Xylenes (total)		41.4	1.00	н	43.0		96.3	80-120	3.79	40	
Surrogate: 4-BFB (FID)		45.8		. "	48.0		95.4	57-125			
Surrogate: 4-BFB (PID)		46.8		"	48.0		97.5	62-120			
Matrix Spike (3D29023	-MS1)					Source:	B3D0543	-08			
Gasoline Range Hydrocarbo	ons	465	50.0	ug/l	500	ND	93.0	70-130			
Benzene		6.08	0.500	11	6.65	ND	91.4	80-134			
Toluene		34.3	0.500	"	37.0	ND	92.7	68-114			
Ethylbenzene		8.91	0.500	"	8.55	ND	104	72-128			
Xylenes (total)		42.6	1.00	11	43.0	ND	99.1	67-125			
Surrogate: 4-BFB (FID)		49.8		"	48.0		104	57-125			
Surrogate: 4-BFB (PID)		47.0		"	48.0		97.9	62-120			
Matrix Spike Dup (3D2	29023-MSD1)					Source:	B3D0543	-08			
Gasoline Range Hydrocarb	ons	469	50.0	ug/l	500	ND	93.8	70-130	0.857	25	
Benzene		6.16	0.500	Ħ	6.65	ND	92.6	80-134	1.31	40	
Toluene		34.5	0.500	n	37.0	ND	93.2	68-114	0.581	40	
Ethylbenzene		9.00	0.500	**	8.55	ND	105	72-128	1.01	40	
Xylenes (total)		42.9	1.00	"	43.0	ND	99.8	67-125	0.702	40	
Surrogate: 4-BFB (FID)		49.7		n	48.0		104	57-125			
Surrogate: 4-BFB (PID)		47.3		"	48.0		98.5	62-120			

North Creek Analytical - Bothell

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Jeanne Garthwate



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Portland

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2000 W International Airport Road, Suite A-10, Anchorage, AK 99502-1119 907.563.9200 fax 907.563.9210 **Anchorage**

Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G

Dublin CA/USA, 94568

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

05/07/03 15:49

Semivolatile Petroleum Products by NWTPH-Dx with 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
Batch 3D25012: Prepared 04/28/03	Using E	PA 3520C								
Blank (3D25012-BLK1)										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"						_,	
	0.322		ıt	0.320		101	50-150			
Surrogate: 2-FBP Surrogate: Octacosane	0.168		"	0.160		105	50-150			
LCS (3D25012-BS1)						75.0	45 106			
Diesel Range Hydrocarbons	1.50	0.250	mg/l	2.00		75.0	45-105			
Surrogate: 2-FBP	0.322		"	0.320		101	50-150			
LCS Dup (3D25012-BSD1)							45 105	20.0	50	
Diesel Range Hydrocarbons	1.01	0.250	mg/l	2.00		50.5	45-105	39.0		
Surrogate: 2-FBP	0.211		. "	0.320		65.9	50-150			

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: 386765.80 Project Manager: Deanna Harding

Reported: 05/07/03 15:49

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Bothell

Analyte		Reporting			Spike	Source		%REC			
		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3D25008: Pr	epared 04/25/03	Using E	PA 3005A								
Blank (3D25008-BLK1)											
Lead		ND	0.00100	mg/l							
LCS (3D25008-BS1)					•						
Lead		0.189	0.00100	mg/l	0.200		94.5	80-120			
LCS Dup (3D25008-BS)	D1)										
Lead		0.189	0.00100	mg/l	0.200		94.5	80-120	0.00	20	
Matrix Spike (3D25008	-MS1)					Source: I	33D0543-	02			
Lead		0.124	0.00100	mg/l	0.100	0.0364	87.6	75-125			
Matrix Spike Dup (3D2	5008-MSD1)					Source: I	B3D0543-	02			
Lead		0.125	0.00100	mg/l	0.100	0.0364	88.6	75-125	0.803	20	

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: 386765.80 Project Manager: Deanna Harding

Reported: 05/07/03 15:49

Notes and Definitions

This sample was laboratory filtered since it was not field filtered as is required by the methodology. Q-30

The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. S-04

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

North Creek Analytical - Bothell

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Jeanne Garthaute

March 4, 2003 G-R #386765

TO:

Ms. Romy Freier-Coppinger

SAIC

18706 North Creek Parkway, Suite 110

Bothell, WA 98011

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568 RE:

Former Texaco Service Station

631 Queen Anne North Seattle, Washington

(Site #211577)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	December 20, 2002	Groundwater Monitoring and Sampling Report Event of January 21, 2003

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to *March 18, 2003*, at which time the final report will be distributed to the following:

cc:

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

Mr. Brian Sato, WDOE, Northwest Region, 3190 160th Avenue SE, Bellevue, WA 98008-5452

Ms. Debra Tadlock, c/o Mark M. Myers, Esq., Williams, Kastner & Gibbs, 601 Union Street, Suite 4100, Seattle, WA 98101-3980

Mr. Dick Peasley, c/o Patrick M. Paulich, Esq., Thursud, Cane & Paulich, 1325 Fourth Avenue, Suite 1300, Seattle, WA 98101

Ms. Heidi Turner, DARCO, Inc., 420 East Howell Street, Seattle, WA 98122

Mr. Michael Nesteroff, Esq., Lane Powell Spears Lubersky, LLP, 1420 Fifth Avenue, Suite 4100, Seattle, WA 98101-2338

RECEIVED

Current Site Check List included.

MAR 2 4 2003

Enclosure

DEPT OF ECOLOGY

trans/211577-bh



March 3, 2003 Job #386765

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

RE: Event of January 21, 2003

Groundwater Monitoring & Sampling Report

Former Texaco Service Station

631 Oueen 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,

Project Coordinator

Robert C. Mallory Registered Geologist

Figure 1:

Potentiometric Map Figure 2: Concentration Map

Groundwater Monitoring Data and Analytical Results Table 1: Separate Phase Hydrocarbon Thickness/Removal Data Table 2: Groundwater Analytical Results - SVOC and PAH Table 3:

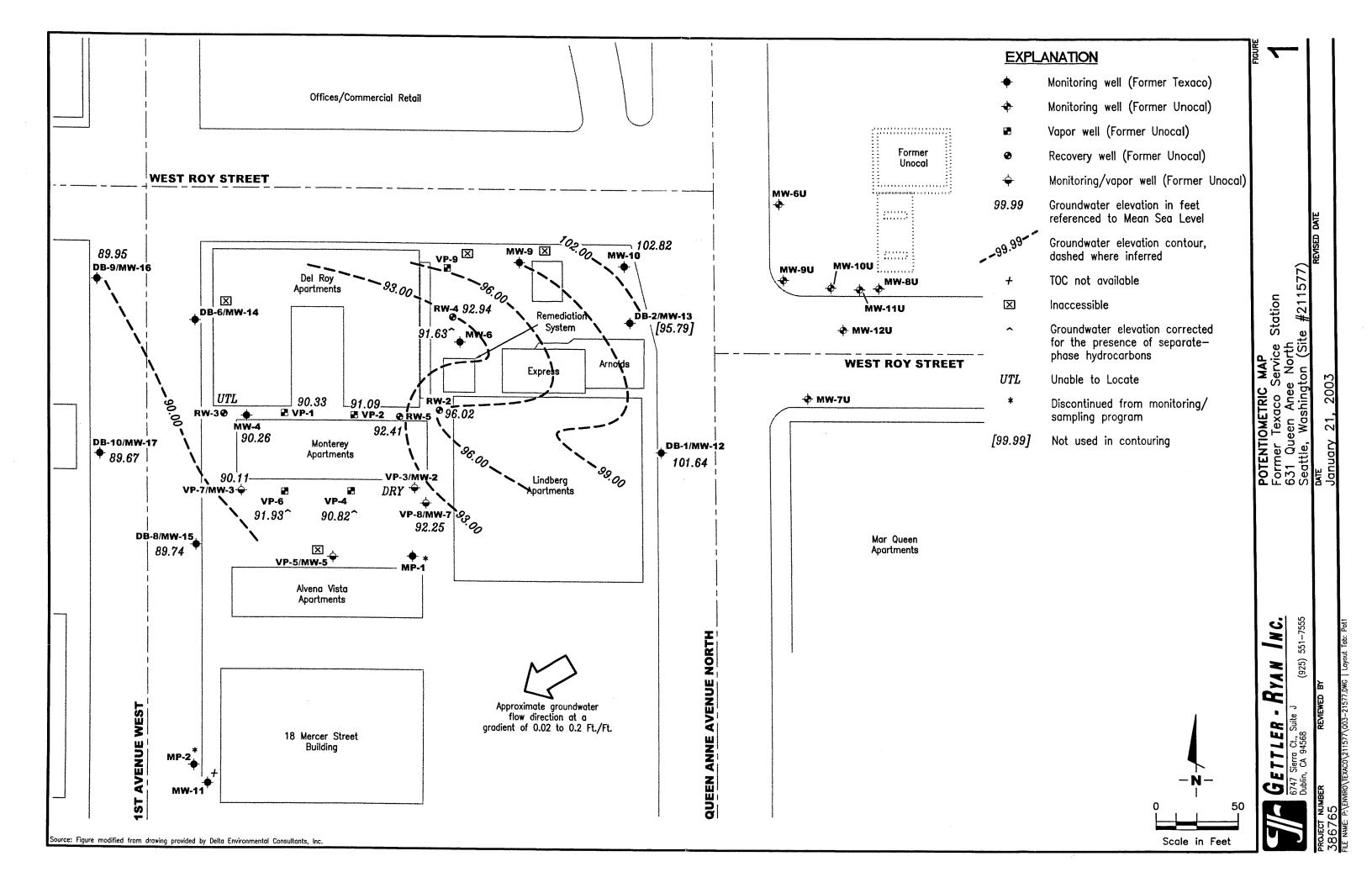
Groundwater Analytical Results - SVOC Table 4:

Groundwater Analytical Results - Dissolved Metals Table 5:

Groundwater Analytical Results - Oxygenate Compounds Table 6: Standard Operating Procedure - Groundwater Sampling Attachments:

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports



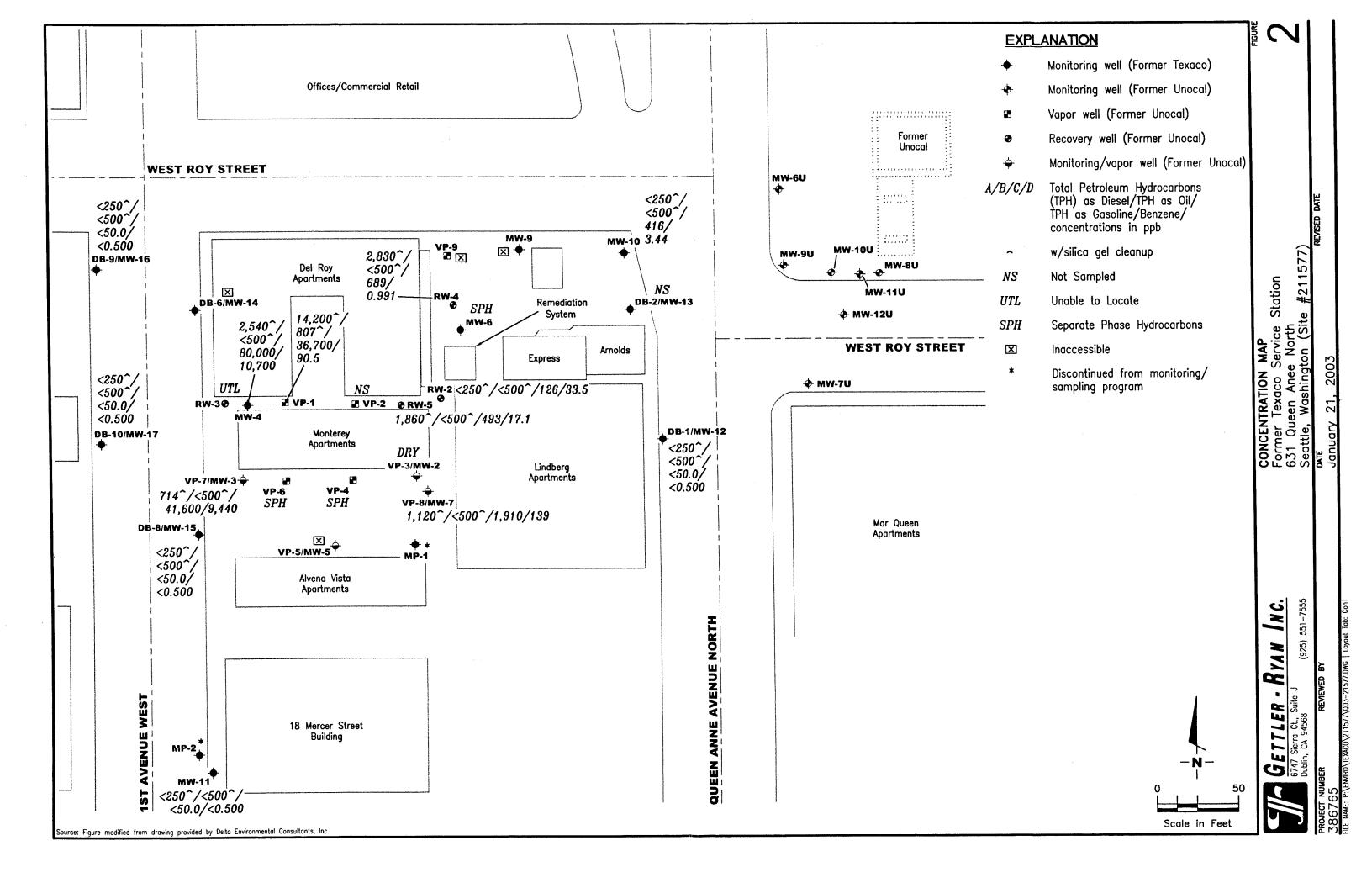


Table 1 Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

				Seattle, Wash	nington					
DATE	DTW	GWE (msl)	SPHT (fl.)	TPH-D (pph)	TPH-O <i>(ppb)</i>	TPH-G <i>(ppb)</i>	B (ppb)	T <i>(ppb)</i>	E (ppb)	X (ppb)
	<i></i>									
				-1	. 5001	25,000	120	820	280	4,600
07/24/02	11.59	91.44	0.00					756	334	4,820
		90.33	0.00					801	500	6,630
01/21/03	12.70	90.33	0.00	14,200	807	30,700				
07/24/02	IINABLE TO I	LOCATE			TO DICE	TEELCIENT WA	TER			
* '		91.12	0.00	NOT SAMPLE	D DUE TO INSI	JEFICIENI WE	NATER			
01/21/03	13.63	91.09	0.00	NOT SAMPLE	ED DUE TO IN	SUFFICIENT	WILLE			
										
07/24/02	DRY									
01/21/03	DRY			***						
				= 0.001	<0.700 ¹	89 000	7,300	7,500	1,900	13,000
07/24/02	11.89	91.46		78,000	<9,700 TO TUIL TO TUIL					
10/17-18/02 01/21/03	12.75 12.61	90.62** 90.82 **	0.03 0.10	NOT SAMPLE	ED DUE TO TI	HE PRESENCE	E OF SPH			
			ANKED OV	ED WELL						
07/24/02			ARKEDOV	3 9001		15,900	318	49.3	880	1,870
	12.31	90.32			-					
01/21/03	INACCESSI	BLE - VEHICLE	L PARKED (VER WELL		•	•			
		02 56**	1 59	NOT SAMPL	ED DUE TO TH	E PRESENCE (OF SPH			.
-				NOT SAMPL	ED DUE TO TH	E PRESENCE	OF SPH			
10/17-18/02 01/21/03	11.35 11.27	91.07** 91.93**	1.63	NOT SAMPI	ED DUE TO T	HE PRESENC	E OF SPH			 s of 01/21/03
	07/24/02 10/17-18/02 01/21/03 07/24/02 10/17-18/02 01/21/03 07/24/02 10/17-18/02 01/21/03 07/24/02 10/17-18/02 01/21/03 07/24/02 10/17-18/02 01/21/03	07/24/02 11.89 10/17-18/02 12.70 01/21/03 12.70 07/24/02 UNABLE TO 10/17-18/02 13.60 01/21/03 13.63 07/24/02 DRY 10/17-18/02 DRY 01/21/03 DRY 07/24/02 11.89 10/17-18/02 12.75 01/21/03 12.61 07/24/02 INACCESSIE 10/17-18/02 12.31 01/21/03 INACCESSIE 07/24/02 10.60 10/17-18/02 11.35	07/24/02 11.89 91.46 10/17-18/02 DRY 10/17-18/02 DRY 10/17-18/02 DRY 01/21/03 DRY 01/21/03 DRY 01/21/03 12.61 90.82** 07/24/02 INACCESSIBLE - VEHICLE IN 10/17-18/02 12.31 90.82 01/21/03 INACCESSIBLE - VEHICLE IN 10/17-18/02 12.31 90.32	07/24/02 11.59 91.44 0.00 10/17-18/02 12.70 90.33 0.00 01/21/03 12.70 90.33 0.00 07/24/02 UNABLE TO LOCATE 10/17-18/02 13.60 91.12 0.00 01/21/03 13.63 91.09 0.00 07/24/02 DRY 10/17-18/02 DRY 01/21/03 DRY 01/21/03 DRY 01/21/03 12.61 90.82** 0.10 07/24/02 INACCESSIBLE - VEHICLE PARKED OV 10/17-18/02 12.31 90.32 0.00 01/21/03 INACCESSIBLE - VEHICLE PARKED OV 10/17-18/02 12.31 90.32 0.00 01/21/03 INACCESSIBLE - VEHICLE PARKED OV 10/17-18/02 11.35 91.07** 0.65	DATE DTW (ft.) GWE (msl) SPHT (ft.) TPH-D (pph) 07/24/02 11.59 91.44 0.00 18,000¹ 10/17-18/02 12.70 90.33 0.00 7,500¹ 01/21/03 12.70 90.33 0.00 NOT SAMPLE 10/17-18/02 13.60 91.12 0.00 NOT SAMPLE 01/21/03 13.63 91.09 0.00 NOT SAMPLE 07/24/02 DRY 01/17-18/02 DRY 01/21/03 DRY 01/21/03 DRY 01/21/03 12.61 90.62** 0.03 NOT SAMPLE 07/24/02 1NACCESSIBLE - VEHICLE PARKED OVER WELL 10/17-18/02 12.31 90.32 0.00 3,900¹ 01/21/03 INACCESSIBLE - VEHICLE PARKED OVER WELL 0.00 3,900¹ 1.58 NOT SAMPLE	### DATE DTW GWE GR.) GP.b) GP.b) GP.b DATE DTW GWE SPHT TPH-D TPH-O (ft.) (f	DATE DTW GWE SPHT TPH-D TPH-O TPH-G B (ppb) DATE	DATE DTW GWE SPH1 TPN-D TPN-D TPN-D GPPD		
Table 1
Groundwater Monitoring Data and Analytical Results
Former Texaco Service Station (Site #211577)

Former Texaco Service Station (Site #211: 631 Queen Anne North Seattle, Washington

					Scattic, was	mington					
WELL ID/	DATE	DTW	GWE	SPHT	TPH-D	TPH-O	TPH-G	В	Т	E	X
TOC*(ft.)	7 /1	(ft.)	(msl)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(pph)	(ppb)	(pph)
VP-7 (MW-3)											
100.40	07/24/02	9.74	90.66	0.00	5,800 ¹	580 ¹	60,000	8,200	7,000	1,500	8,300
	10/17-18/02	10.57	89.83	0.00	5,160 ¹	510 ^{1,2}	71,600	11,100	5,880	1,940	10,800
	01/21/03	10.29	90.11	0.00	714 ^{1,4}	<500 ¹	41,600	9,440	1,470	1,360	6,190
			,								
NOTE OF CRANKES OF THE		•									
VP-8 (MW-7)	07/24/02	11.70	93.18	0.00	1,8001	420 ¹	1,500	9.4	9.2	34	50
104.88	07/24/02	12.78	93.18	0.00	1,830¹	<500 ¹	552	9.75	1.45	4.25	5.73
	10/17-18/02		92.10 92.25	0.00	1,120 ¹	<500 ¹	1,910	139	291	59.1	216
	01/21/03	12.63	92.25	0.00	1,120		-1 ,				
VP-9											
112.35	07/24/02	INACCESSIB	LE - VEHICLE P	ARKED OV	ER WELL						
112.55	10/17-18/02	11.90	100.45	0.00	13,200 ¹	786 ^{1,2}	1,910	11.3	2.62	8.86	14.7
	01/21/03		LE - VEHICLE		VER WELL						
	01/21/03	II WICCESOLD									
MW-4						1			0.000	1 000	11,000
102.07	07/24/02	11.18	90.89	0.00	10,000	680 ¹	83,000	11,000	9,900	1,800	
	10/17-18/02	11.98	90.09	0.00	9,8601	697 ^{1,2}	110,000	14,500	11,600	2,630	15,200
(D)	10/17-18/02	***			7,1001	<500¹	92,400	12,400	9,980	2,090	12,200
, ,	01/21/03	11.81	90.26	0.00	2,5401,5	<500 ¹	80,000	10,700	10,100	1,920	11,700
MW-6					1		-4.000	0.000	1.600	820	4,200
113.32	07/24/02	19.76	93.56	0.00	29,000 ¹	<10,000 ¹	31,000	8,900	1,600		4,200
	10/17-18/02	20.64	92.72**	0.05		D DUE TO THE					
	01/21/03	21.71	91.63**	0.03	NOT SAMPLI	ED DUE TO TH	E PRESENCE	OF SPH			
MW-9					!	12		402	12.0	230	107
114.27	10/17-18/02	20.88	93.39	0.00	43,600 ¹	671 ^{1,2}	6,380	493	13.0		
	01/21/03	INACCESSIE	BLE - VEHICLE	PARKED C	VER WELL						

Table 1
Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

					Seattle, Wash	nington					
WELL ID/	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-O <i>(ppb)</i>	TPH-G <i>(ppb)</i>	B (ppb)	T (ppb)	E <i>(ppb)</i>	X (ppb)
roc* <i>(ft.)</i> ww-10 115.28	07/24/02 10/17-18/02	13.14 13.59 12.46	102.14 101.69 102.82	0.00 0.00 0.00	320¹ 667¹ <250¹	600 ¹ <500 ¹ < 500¹	240 490 416	2.5 3.42 3.44	<0.50 <0.500 0.550	<1.0 1.34 0.519	<1.5 5.00 3.24
MW-11	01/21/03 07/24/02 10/17-18/02 01/21/03	11.16 11.43 11.29		0.00 0.00 0.00	<250 ¹ <250 ¹ < 250¹	<250 ¹ <500 ¹ < 500 ¹	<50 <50.0 < 50.0	<0.50 <0.500 < 0.500	<0.50 <0.500 < 0.500	<0.50 <0.500 < 0.500	<1.5 <1.00 <1.00
DB-1 (MW-12) 113.36	10/17-18/02 01/21/03	12.22 11.72	101.14	0.00 0.00	<250¹ <250¹	<500¹ <500¹	<50.0 < 50.0	0.516 < 0.500	0.869 < 0.500	<0.500 < 0.500	<1.00 <1.00
DB-2 (MW-13) 114.80	10/17-18/02 01/21/03	19.31 19.01	95.49 95.79	0.00	NOT SAMPLE	ED DUE TO INS	UFFICIENT W	ATER WATER	 	 	
DB-6 (MW-14) 101.64	10/17-18/02 11/14/02 01/21/03	 11.88 INACCESSIE	 89.76 BLE - VEHICLI	0.00 E PARKED C	 4,710 ¹ OVER WELL	 <500¹ 	43,100 ³	9,900 ³	 4,930 ³ 	 1,540 ³ 	 6,020 ³
DB-8 (MW-15) 99.03	10/17-18/02 11/14/02 01/21/03	 9.44 9.29	 89.59 89.74	0.00 0.00	 780¹ < 250¹	 <500 ¹ < 500¹	3,280 < 50.0	 1,640 <0.500	5.23 <0.500	5.06 < 0.500	 <10.0 <1.00

Table 1 Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

						Seattle, was	illigion					and the contract of the contra
WELL ID/		DATE	DTW	GWE	SPHT	TPH-D	ТРН-О	TPH-G	В	T	E	X
FOC*(ft.)		DAIL	(fi.)	(msl)	(ft.)	(ppb)	(pph)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
DB-9 (MW-16	5)											
101.83		10/17-18/02										<1.00
		11/14/02	12.36	89.47	0.00	<250¹	<500¹	<50.0	< 0.500	< 0.500	<0.500	<1.00
		01/21/03	11.88	89.95	0.00	<250 ¹	<500 ¹	<50.0	< 0.500	<0.500	< 0.500	<1.00
DB-10 (MW-1	17)											
99. 2 9	. , ,	10/17-18/02				alor star						
<i>99.</i> 2 <i>9</i>		11/14/02	10.00	89.29	0.00	<250 ¹	<500 ¹	2,780	569	31.0	91.1	250
		01/21/03	9.62	89.67	0.00	<250 ¹	<500 ¹	<50.0	<0.500	< 0.500	<0.500	<1.00
		01/21/03	7.02	0,10,								
RW-2												
106.63		07/24/02	UNABLE TO I	OCATE			 .					21.5
	NP	10/17-18/02	14.44	92.19	0.00	988¹	<500¹	1,380	90.5	8.05	29.2	31.5
	NP	01/21/03	10.61	96.02	0.00	<250 ¹	<500 ¹	126	33.5	0.859	1.28	4.11
RW-3												
100.70		07/24/02	UNABLE TO I	OCATE								
		10/17-18/02	UNABLE TO I	LOCATE					-			
	•	01/21/03	UNABLE TO	LOCATE								
RW-4												
110.82		07/24/02	18.30	92.52	0.00	15,000 ¹	<2,000 ¹	990	62	1.3	32	7.0
110.02		10/17-18/02	19.29	91.53	0.00	8,930¹	939¹	3,160	59.8	2.50	40.4	15.6
			19.29	91.33 9 2.94	0.00	2,830 ¹	<500¹	689	0.991	< 0.500	2.37	7.03
		01/21/03	1/.00	7 4. 7 4	0.00	_,,,,						
RW-5												
104.22		07/24/02	UNABLE TO I	LOCATE								
•		10/17-18/02	12.63	91.59	0.00	84,900 ¹	3,650 ¹	3,370	696	67.2	63.0	408
	NP	01/21/03	11.81	92.41	0.00	1,860 ¹	<500 ¹	493	17.1	4.43	1.37	52.9
		•									A	of 01/21/03
211577.3	x1s/#386	5765				4					: As	01 01/21/03

Groundwater Monitoring Data and Analytical Results

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

WELL ID/ TOC*(fi.)	DATE	DTW (ft.)	GWE (msl)	SPHT (fl.)	TPH-D (ppb)	ТРН-О <i>(ppb)</i>	TPH-G (ppb)	B (ppb)	T <i>(ppb)</i>	E (ppb)	X (ppb)
MP-1	10/17-18/02	INACCESIBLE INACCESIBLE ORED/SAMPLE	- UNABLE TO	OPEN WELL OPEN WELL		 		 	 	 	
MP-2	07/24/02 10/17-18/02 NOT MONIT	INACCESIBLE ORED/SAMPLI		ED OVER WELL 			 	 	 		.
Trip Blank QA	07/24/02 10/17-18/02 11/14/02 01/21/03	 	 	 	' 	 	<50 <50.0 <50.0	<0.50 <0.500 <0.500 	<0.50 <0.500 <0.500 —	<0.50 <0.500 <0.500 	<1.5 <1.00 <1.00

				n	т	E	X
	TPH-D	ТРН-О	TPH-G	В	1	2 - 22	1.00
D (1 11)	250	250	50.0	0.500	0.500	0.500	1.00
Standard Laboratory Reporting Limits:				5.0	40	30	20
MTCA Method A Cleanup Levels:	1,000	1,000	1,000				
Current Method:	NWTPH-I	D Extended		NWT	PH-G and EPA	8021B	اد د د د د د د د د د د د د د د د د د د
Current Method.	11111111111				-		

Groundwater Monitoring Data and Analytical Results

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

EXPLANATIONS:

TOC = Top of Casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline

-- = Not Measured/Not Analyzed

(ft.) = Feet

B = Benzene

QA = Quality Assurance/Trip Blank

T = Toluene

NP = No Purge

DTW = Depth to Water GWE = Groundwater Elevation

E = Ethylbenzene

MTCA = Model Toxics Control Act Cleanup Regulations

(msl) = Mean Sea Level

X = Xylenes

[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 x 0.8)].
- Analysis with silica gel cleanup.
- Laboratory report indicates the heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
- Laboratory report indicates this sample was received and analyzed unpreserved. 3
- Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.
- Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation. 5

Table 2 Separate Phase Hydrocarbon Thickness/Removal Data

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

WELL ID	DATE	DTW (fi.)	SPH THICKNESS (ft.)	AMOUNT BAILED (SPH + WATER) (gallons)
<u> </u>	10/17-18/02	12.75	0.03	0.00
VP-4	01/21/03	12.61	0.10	0.00
VP-6	07/24/02	10.60	1.58	0.00
V P-0	10/17-18/02	11.35	0.65	0.00
	01/21/03	11.27	1.63	0.00
1411	10/17 19/02	20.64	0.05	0.00
MW-6	10/17-18/02 01/21/03	21.71	0.03	0.00

EXPLANATIONS:

DTW = Depth to Water

(ft.) = Feet

SPH = Separate Phase Hydrocarbons

Table 3 Groundwater Analytical Results - SVOC and PAH Former Texaco Service Station (Site #211577)

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

				Seattle, Was	snington				
WELL ID	DATE	चि 2:-Methylnaphthalene.	(g 2,4-Dimethylphenol	d Naphthalene	(pt/d) Dhenoi	(gd. 2-:Methylphenol	전 4-Methylphenol	ਚੋਂ bis (2-Ethylhexyl) phthalate	(g Benzoic acid
VP-1	07/24/2002	84	80	160	ND	13	18	31	<10
VP-2	07/24/2002	UNABLE TO LOCA	ТЕ	<u></u>	-		 ·		
VP-5 (MW-5)	07/24/2002	INACCESSIBLE - V	EHICLE PARK	ED 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 - V	EHICLE PARK	ED 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

Table 3
Groundwater Analytical Results - SVOC and PAH

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

				Seattle, W	asmington				
WELL ID	DATE	gd 2-Methylnaphthalene	gd 2,4-Dimethysphenol	(gabhthalene	(Phenol	चै 2-Methylphenol	(पु 4- Methylphenol	र्वे कु bis (2-Ethylhexyl) phthalate	(1999) (1999) (1990) (1990)
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 ¹	<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 ¹	 <50.0	 <20.0
RW-4	07/24/2002	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<10	<10

Groundwater Analytical Results - SVOC and PAH

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

EXPLANATIONS:

(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

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.

Groundwater Analytical Results - SVOC

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

								Seattle	, Washi	ngton										
WELL ID/	DATE	(g.Chloroform	(des. 132-Dichloroethene	Benzene	Tolnene	(qud) (qud)	(dq Tetrachloroethene	(dqqq)	(d m+p-Xylene	o-Xylene	(d. Isopropylbenzene	(d. n-Propylbenzene	(g. 1,3,5-Trimethylbenzene	(g. 1,2,4-Trimethylbenzene	d, sec-Butylbenzene G. sec-Butylbenzene	dd p-Isopropyltoluene G	d n-Butylbenzene (q. n-Butylbenzene	(ddd) Naphthalene	(g. Methyl Ebutyl ether	चे कु t-Butyl alcohol
VP-3 (MW-2)	07/24/02	DRY					<u></u>												us 40	
VP-5 (MW-5)	07/24/02	INACCE	ESSIBLE	; - VEHIO	CLE PAR	KED O	VER WE	CLL		.										
VP-7 (MW-3)	10/17-18/02												. 						<10.0	<100
VP-9	07/24/02	INACCI	ESSIBLE	E - VEHI	CLE PAI	KED O	VER WI	ELL												
MW-4	07/24/02 10/17-18/02	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 <50.0	120 <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	2 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

Groundwater Analytical Results - SVOC Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

WELL ID/	DATE	(dqq)	(qdd) (dg-1,2-Dichloroethene	Benzene (dqq)	Tolinene	(ga Ethylbenzene	(dqq) Letrachloroethene	(gdd) Trichloroethene	(dqq)	(ppb)	(da.). (da.).	(ded.) (qdd.)	(qdd) (,3,5-Trimethylbenzene	(9dd) 1,2,4-Trimethylbenzene	(gad)	(gdd)	(ddd)	(qdd) (qdd) Naphthalene	d Methyl t-butyl ether	dd EButyl alcohol
DB-2 (MW-13)	10/17-18/02		<u></u> .																	
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

Groundwater Analytical Results - SVOC

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

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

				Seattle, w	asningion				
WELL ID/	DATE	MERCURY	ARSENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(pph)	(ppb)
						22.9	***		
VP-1	07/24/02				 -	18.0			
	10/17-18/02 ¹					47.1			
	01/21/03					47.1			
VP-2	07/24/02	UNABLE TO LOCA	ATE						
V1 - 2	10/17-18/02	NOT SAMPLED D		ENT WATER					
	01/21/03	NOT SAMPLED D							
VP-3 (MW-2)	07/24/02	DRY					4-		
V P-3 (IVI VV-2)	10/17-18/02	DRY							
	01/21/03	DRY							
	01/21/03	DKX							
VP-4	07/24/02					28.0			
V F-4	10/17-18/02	NOT SAMPLED D	UE TO THE PRES	ENCE OF SPH					
	01/21/03	NOT SAMPLED I							
VP-5 (MW-5)	07/24/02	INACCESSIBLE -	VEHICLE PARKE	D OVER WELL					
VF-3 (M W-3)	10/17-18/02					2.29	**		
	01/21/03	INACCESSIBLE -	VEHICLE PARK	ED OVER WEL	L				
VP-6	07/24/02	NOT SAMPLED - 1	DUE TO PRESENC	CE OF SPH		**	**		
VF-0	10/17-18/02	NOT SAMPLED D							
	01/21/03	NOT SAMPLED I							
	07/04/00	<0.079	97.3	<0.080	2.2	25.0	<1.1	0.068	33.6
VP-7 (MW-3)	07/24/02		91.3	~0.000		2.40			
	10/17-18/02				==	<1.00			
	01/21/03								

Table 5 Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

				Seattle, V	Vashington				
WELL ID/	DATE	MERCURY	ARSENIC	CADMIUM	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
		(ppb)	(ppb)	(ppb)	(<i>(((((((((((((</i>	(PP-9)			
					0.82	11.4	<1.1	< 0.050	49.6
VP-8 (MW-7)	07/24/02	< 0.079	2.1	0.13		1.93			
	10/17-18/02					8.33			
	01/21/03					0.00			
							<u></u>		
VP-9	07/24/02	INACCESSIBLE	- VEHICLE PARK	ED OVER WELL		<1.00			
VI -9	10/17-18/02					~1.00			
	01/21/03	INACCESSIBLE	E - VEHICLE PAR	KED OVER WEI	LL				
					<0.28	15.5	<1.1	<0.050	63.8
MW-4	07/24/02	< 0.079	31.0	<0.080		10.7			
	10/17-18/021					9.61			
(D)	10/17-18/02					14.5	-		
,	01/21/03			 .		14.5			
						5.1			
MW-6	07/24/02			CONCE OF CDU					
	10/17-18/02 01/21/03	NOT SAMPLED NOT SAMPLEI	DUE TO THE PRI DUE TO THE P	RESENCE OF SP	Н				
						2.66			
MW-9	10/17-18/02 01/21/03	INACCESSIBL	E - VEHICLE PA	RKED OVER WE	CLL				
				0.17	0.38	1.3	<1.1	<0.050	52.1
MW-10	07/24/02	< 0.079	4.1	0.17	0.56	<1.00			
	10/17-18/02	*-				<1.00	-	-	
	01/21/03				-				
						<1.2		••	
MW-11	07/24/02					<1.00			
	10/17-18/02					<1.00			
	01/21/03								

Table 5 Groundwater Analytical Results - Dissolved Metals Former Texaco Service Station (Site #211577)

631 Quee	n Anne North
Seattle,	Washington

				Seattle, w	asimiston				
WELL ID/	DATE	MERCURY AF	SENIC	CADMIUM	CHROMIUM	LEAD	SELENIUM	SILVER	BARIUM TR
WELL ID!	DATE		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ррь)
DB-1 (MW-12)	01/21/03					<1.00			
00-1 (11111 12)	02/22/00								
DD 2 (MENU 12)	01/21/03	NOT SAMPLED DUE T	O INSUFI	FICIENT WATER					
DB-2 (MW-13)	01/21/03	NOT SAME EED DOG 1	0 11.001						
DB-6 (MW-14)	11/14/02	<1.00	17.0	<1.00	<1.00	1.82	1.48	<1.00	18.4
JD-0 (141 44-14)	01/21/03	INACCESSIBLE - VEH		RKED OVER WELI					
	01/21/03	TWICE BOILD I							
	11/14/00	<1.00	1.33	<1.00	<1.00	1.04	<1.00	<1.00	<10.0
DB-8 (MW-15)	11/14/02					<1.00	10 170		
	01/21/03								
DD 0 (3/11/ 1/)	11/14/02					<1.00			
DB-9 (MW-16)	01/21/03					<1.00			
	01/21/03								
DD 10 /8/3W 17	11/14/02			=~		<1.00			
DB-10 (MW-17)	01/21/03					<1.00			
	01/21/03								
RW-2	07/24/02	UNABLE TO LOCATE							
K **-2	10/17-18/02					2.23			
	01/21/03					<1.00			
RW-3	07/24/02	UNABLE TO LOCATE				- -			
	10/17-18/02	UNABLE TO LOCATE							
	01/21/03	UNABLE TO LOCATE				-	-		
			<i>(</i> 1	ZO 000	1.2	3.3	<1.1	<0.050	66.9
RW-4	07/24/02	<0.079	6.1	<0.080		1.23	~1.1		
	10/17-18/02	46 146				1.43			

Groundwater Analytical Results - Dissolved Metals

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

				Seattle, W	ashington				SNAPHDALED
WELL ID/	DATE	MERCURY (ppb)	ARSENIC (ppb)	CADMIUM (ppb)	CHROMIUM (ppb)	LEAD (ppb)	SELENIUM (ppb)	SILVER (ppb)	BARIUM TR (ppb)
RW-5	07/24/02	UNABLE TO LOCA	TE			 3.91	 		
	10/17-18/02 01/21/03	 			 	13.3	-		

Groundwater Analytical Results - Dissolved Metals

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

EXPLANATIONS:

(ppb) = Parts per billion-- = Not Analyzed(D) - Duplicate

ANALYTICAL METHODS:

Dissolved Metals by EPA Method Series 7000 Barium TR by EPA Method 6010B

Organic Lead was <300 ppb.

Groundwater Analytical Results - Oxygenate Compounds

Former Texaco Service Station (Site #211577)

631 Queen Anne North Seattle, Washington

				Seattle, wa	isimigron				The second of th
WELL ID	DATE	ETHANOL (pph)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA <i>(ppb)</i>	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, temperature, pH and electrical conductivity are measured. If purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. The measurements are taken 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.

•	Chevron #2115	A1 . 41.		Event Date:	1-21-03	(inclu
Site Address:	631 Queen Ann	e North		Event Date: _		(111010
City:	Seattle, WA			Sampler:	BWN	
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\^/	ell Condition:	oK		
Well ID	<u> </u>		,		Amount Bailed	
Well Diameter	2 in.	•	/drocarbon nickness: /	75 ft.	(product/water):	g al.
Total Depth	14.81 ft.			3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38
Depth to Water	12× 10 11.		Volume Factor (V		5"= 1.02 6"= 1.50	
			= 135	x3 (case volume) = E	Estimated Purge Volume	:gal.
Dames	D: Dallar			Sampling	Disposable Bailer	
Purge Equipment:	Disposable Bailer Stainless Steel Ba	iler		Equipment:	Pressure Bailer	
Equipment	Stack Pump				Discrete Bailer	
	Suction Pump				Other:	
•	Grundfos					
	Other:					
Start Time (pu	_{irge):} 1140	Weath	ner Conditions	s: Rain		
Sample Time	· · · · · · · · · · · · · · · · · · ·		Water Colo	r: (ear	Odor:	: <u>yas</u>
						
Purging Flow			ent Description	n:		7
	Rate: gpm.			n:		
Purging Flow Did well de-w	Rate: gpm. rater? 100		ent Description ne:	n: Volume:		ORP
Purging Flow Did well de-w Time	Rate: gpm. rater? 100 Volume		ent Description	n:	gal.	
Purging Flow Did well de-w	Rate: gpm. rater? 100 Volume	If yes, Tim	ent Description e: Conductivity (u mhos/cm)	Volume: Temperature	gal. p.o.	ORP
Purging Flow Did well de-w Time	Rate: gpm. vater? Volume (gal.)	If yes, Tim	ent Description ie: Conductivity	n: Volume:	gal. p.o.	ORP
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.)	If yes, Tim	ent Description e: Conductivity (u mhos/cm)	Volume: Temperature	gal. p.o.	ORP
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.)	If yes, Tim	ent Description e: Conductivity (u mhos/cm)	Volume: Temperature	gal. p.o.	ORP
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.)	If yes, Tim	ent Description e: Conductivity (u mhos/cm)	Volume: Temperature	gal. p.o.	ORP
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/)*	gal. p.o.	ORP
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.)	pH	Conductivity (u mhos/cm)	Volume: Temperature (C/)* 11.9 NFORMATION	D.O. (mg/L)	ORP (mV)
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.) (gal.) (#) CONTAINER	pH (.29 LA REFRIG.	ent Description ie: Conductivity (u mhos/cm) 314	Volume: Temperature (C/)* 11.9 NFORMATION	D.O. (mg/L) ORY AN	ORP (mV)
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.) (#) CONTAINER x voa via	pH LA REFRIG. YES	Conductivity (u mhos/cm) 314 BORATORY II PRESERV. TY HCL	NFORMATION PE LABORATO	gal. D.O. (mg/L) PRY AM TPH-G/BTEX/ TPH(D) > ~	ORP (mV)
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.) (#) CONTAINER 3 x voa via	pH LA REFRIG. YES	Conductivity (u mhos/cm) 314 BORATORY II PRESERV. TY	NFORMATION PE LABORATO	D.O. (mg/L) ORY AN	ORP (mV)
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? Volume (gal.) (#) CONTAINER x voa via	pH LA REFRIG. YES	Conductivity (u mhos/cm) 314 BORATORY II PRESERV. TY HCL	NFORMATION PE LABORATO	gal. D.O. (mg/L) PRY AM TPH-G/BTEX/ TPH(D) > ~	ORP (mV)
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? NO Volume (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.)	pH LA REFRIG. YES	Conductivity (u mhos/cm) 314 BORATORY II PRESERV. TY HCL	NFORMATION PE LABORATO	gal. D.O. (mg/L) PRY AM TPH-G/BTEX/ TPH(D) > ~	ORP (mV)
Purging Flow Did well de-w Time (2400 h	Rate: gpm. vater? NO Volume (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.) (gal.)	pH LA REFRIG. YES	Conductivity (u mhos/cm) 314 BORATORY II PRESERV. TY HCL	NFORMATION PE LABORATO	gal. D.O. (mg/L) PRY AM TPH-G/BTEX/ TPH(D) > ~	ORP (mV)

Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne	North	Event Date:	1/21/03	(inclus
City:	Seattle, WA		Sampler:	Bion	
Well ID	VP-2	Well Condition	: <u>OK</u>		
Well Diameter Total Depth	2 in. 14.55 ft.	Hydrocarbon Thickness:	ft.	Amount Bailed (product/water):	gal.
Depth to Water	13.43 ft.	Volume Factor (\	3/4"= 0.02 /F) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	xVF	=	_x3 (case volume) = E	Estimated Purge Volume:	gal.
Purge Equipment:	Disposable Bailer Stainless Steel Bailer		Sampling Equipment:	Disposable Bailer _ Pressure Bailer	
	Stack Pump				
,	Suction Pump			Other:	
	Grundfos				
	Other:				
Start Time (purg	ge):	Weather Condition	s:		
	Date:/	Water Cold		Odor:	
Purging Flow F		Sediment Descriptio		gal.	
Did well de-wa	ter? II)	es, Time:	volume	gui.	
Time (2400 hr.)	Volume (gal.)	OH (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
	/_				
		LABORATORY I	NFORMATION		
SAMPLE ID	(")	EFRIG. PRESERV. TY	PE LABORATO	TPH-G/BTEX/MTBE	ALYSES
•	x voa vial	YES HCL		TITI-O/DIE/AMITOE	
COMMENTS	: Insuff	icient u	vater		
		×.			
Add/Ren	laced Lock:		Add/Replaced	Plug:S	Size:



GETTLER-RYAN INC.

Site Address: City:	Chevron #211577 631 Queen Anne N Seattle, WA	orth	Event Date:	1-21-03	(inclusive
City:					
Well ID	Ocattio, 1171		Sampler:	BWN	
	VP3 -MWZ	Well Conditio	n: <u>ok</u>		
	2 in.	Hydrocarbon		Amount Bailed	Q .
Total Depth	9.10 ft.	Thickness:	ft.		gal.
Depth to Water	DRY ft.	Volum		1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
		L		Estimated Purge Volume:	gal.
	xVF	==	X3 (case volume)		
Purge	Disposable Bailer	-4-	Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump		_	Discrete Bailer	
·	Suction Pump		_	Other:	
	Grundfos	/		<i>[</i> -	
	Other:	/			
		W all a Canditi	ons:		
Start Time (pur		Weather Condition Water Condition	/	Odor:	
Sample Time/D		Sediment Descrip			
Purging Flow F Did well de-wa	tute.	es, Time:	Volume:	gal.	
Dia Well de Wa	1		v Temperature	, D.O.	ORP
Time (2400 hr.	Volume (gal.)	Conductivit H (u mhos/cn	·/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(mg/L)	(mV)
(2400 111.	.) (gai.)				
	/				
		/			
		-/			
		LABORATOR	Y INFORMATION	,	
SAMPLE ID	(#) CONTAINER R	EFRIG. PRESERV		ORY AN	NALYSES
-	x voa vial	YES HCL		TPH-G/BTEX/MTI	35
	1/				
COMMENTS	s: Well is a	4/ /			
Add/Re	eplaced Lock:		Add/Replace	ed Plug:	Size:

	Cnevron #2115//		Job Number.		
Site Address:	631 Queen Anne N	orth	Event Date:	1-21-03	(inclusiv
City:	Seattle, WA		Sampler:	BWN	
Vell ID Vell Diameter Fotal Depth	7 in. i4.70 ft.	Well Condition Hydrocarbon Thickness:	: ok :10 ft.	Amount Bailed (product/water):	Ø gal.
Depth to Water	12.61 ft.	Volume Factor (V	3/4"= 0.02	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 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 (pur Sample Time/I Purging Flow F Did well de-wa Time (2400 hr.	Cate: / Rate: gpm. Stater? If ye	Weather Condition Water Cold ediment Descriptions, Time: Conductivity (u mhos/cm)	or:	gal. D.O. (mg/L)	ORP (mV)
		L AROBATORY II	NEOPMATION		
SAMPLE ID	(#) CONTAINER REI	LABORATORY II	NFORMATION /PE LABORATO	RY ANA	ALYSES



Client/Facility #:	Chevron #211577	Job Number:	386765	
Site Address:	631 Queen Anne North	- Event Date:	1-21-03	(inclusiv
	Seattle, WA	- Sampler:	RWN	
City:		-		
14/ 11/5	Vell Conditi	on: Truck	parked over	
Well ID	Well Condition in. Hydrocarbon		Amount Bailed	
Well Diameter		· ft		gal.
Total Depth	16.50 ft. Thickness:	ne 3/4"= 0.02	1"= 0.04 2"= 0.17	3"= 0.38
Depth to Water		or (VF) 4"= 0.66		12"= 5.80
	xVF=	x3 (case volume) =	Estimated Purge Volume:	gal.
Purge	Disposable Bailer	Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer	Equipment:	•	
	Stack Pump	_	Discrete Bailer	
<u>\</u>	Suction Pump		Other:	
•	Grundfos			
	Other:	_ \		
Did well de-wa	Volume PH Conductiv	·	D.O. (mg/L)	ORP (mV)
				
		RY INFORMATION		ALYSES
SAMPLE I			TPH-G/BTEX/MTE	
-	x voa vial YES HC		TPH-G/BTEXWITE	<u>-</u>
	A			
COMMENT	s: Truck parked over	well		
Add/Re	eplaced Lock:	Add/Replac	ed Plug:	Size:

	: Chevron #2115//		-		
Site Address:	631 Queen Anne No	rth	Event Date:	[-21-03	(inclus
City:	Seattle, WA		Sampler:	BWN	
Vell ID Vell Diameter Fotal Depth Depth to Water Purge Equipment:	VP - 6 → in. I*1.72 ft. M:27 ft. xVF Disposable Bailer Stainless Steel Bailer	Well Condition: Hydrocarbon Thickness: Volume Factor (VI	0 k 1.63 ft. 3/4"= 0.02 4"= 0.66	Amount Bailed (product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer Pressure Bailer	gal. 3"= 0.38 12"= 5.80 gal.
Start Time (pu Sample Time, Purging Flow	/Date: /	eather Conditions Water Color	:	Other: Odor:	
Did well de-w		Time:	Volume:	gal.	<u>, , , , , , , , , , , , , , , , , , , </u>
Time (2400 h	volume pH (gal.)	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne Noi	th	Event Date:	1-21-03	(inclusiv
City:	Seattle, WA		Sampler:	BWN	
Well ID Well Diameter Total Depth Depth to Water	VP7-MW3 2 in. 17.42 ft. 10.29 ft. 7.13 xVF_1	Well Condition Hydrocarbon Thickness: Volume Factor (ft. 3/4"= 0.02 4"= 0.66	Amount Bailed (product/water): 1"= 0.04	gal. 3"= 0.38 12"= 5.80 3-S 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 (pur Sample Time/I Purging Flow I Did well de-wa	Date: <u>\\05 /</u> Rate: <u>gpm.</u> Se	/eather Condition Water Coldinated Description Time:	or: clear on: Volume:	Odor:	Strong
Time (2400 hr	Volume pH .) (gal.)	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
1049 1053 105		296	11.8		
		LABORATORY	INFORMATION		
SAMPLE II		RIG. PRESERV. T S HCL		TPH-G/BTEX/MES TPH(U) >- \$\int \text{piss}, \text{Lea}	N/36
COMMENTS	S:			·	
Add/Pe	eplaced Lock:		Add/Replace	d Plug:\$	Size:

Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne I	North	Event Date:	1-21-03	(inclusi
City:	Seattle, WA		Sampler:	BWN	
Well ID	VP3-MW7	Well Condition	: oK		
Well Diameter Total Depth	2 in. 16-76 ft.	Hydrocarbon Thickness:	Ø ft.	Amount Bailed (product/water):	gal.
Depth to Water	12.63 ft.	Volume Factor (\	3/4"= 0.02 VF) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	4-13 xvF	= 17	_ x3 (case volume) =	Estimated Purge Volume:	gal.
Purge Equipment:	Disposable Bailer Stainless Steel Bailer		Sampling Equipment:	Disposable Bailer Pressure Bailer	<u> </u>
	Stack Pump			Discrete Bailer	
•	Suction Pump			Other:	
	Grundfos Other:				
	Ctrief.				
Start Time (purg	_{ie):} 1020	Weather Condition	s: Rain		
Sample Time/D		Water Cold	or: 9 (a)/	Odor:	yes
Purging Flow R		Sediment Descriptio		t	
Did well de-wat	er? NO If y	es, Time:	Volume:	gal.	
Time (2400 hr.)	Volume (gal.)	H Conductivity (u mhos/cm)	Temperature (C/ p/)	D.O. (mg/L)	ORP (mV)
1023	Ъ.:	31]	11.9		
1026	2 6.1		11.8		
					
		LABORATORY I		DV AND	ALYSES
SAMPLE ID	("/ ==	FRIG. PRESERV. TY	PE LABORATO	TPH-G/BTEX/N	
1	7 3 x voa vial 1 Ambet L	1100	1 1	++H(D) × W/S	
•	I SOOML Pl.	4 NF	+	Oiss- Lead	
COMMENTS:					
COMMENTS.					
Add/Pop	laced Lock:		Add/Replaced	l Plua: S	ize:



Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne No	orth	Event Date:	1-21-03	(inclusive
City:	Seattle, WA		Sampler:	BWN	
City.	Octatio, 111				
Well ID	VP-9	Well Condition	: Unable	to access	
Well Diameter	2 in.	Hydrocarbon		Amount Bailed	
Total Depth	13.50 ft.	Thickness:	ft	. (product/water):	gal.
Depth to Water	VTA ft.	Volume Factor (1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	xVF	=	_x3 (case volume) =	Estimated Purge Volume:	; gal.
		-	Sampling	Disposable Bailer	
Purge	Disposable Bailer		Equipment:	Pressure Bailer	
Equipment:	Stainless Steel Bailer		-4-4-	Discrete Bailer	
	Stack Pump		-	Other:	
	Suction Pump	/`	-	7	
	Grundfos				
	Other:				
		Weather Conditio	ne.		
Start Time (pu		Water Co		Odor	
Sample Time		Sediment Descripti		V	
Purging Flow	Trate.	es, Time:		gal.	
Did well de-w	ater? ————————————————————————————————————			D.O.	ORP
Time	Volume p	Conductivity (u mhos/cm)	/	mg/L)	(mV)
(2400 h	r.) (gal.)	(Ultillos/citi)	(0.17)		
	/ _		- J		
					
			INFORMATION	TORY A	NALYSES
SAMPLE	ID (#) 001(17	FRIG. PRESERV.	TYPE LABORA	TPH-G/BTEX/MT	
_	x voa Vial	YES HCL			
					
			1 1	> I = f	
COMMENT	rs: Unable to	access ca	s parked	OVE	
				ced Plug:	

Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne Nor	th	Event Date:	1-21-03	(inclusiv
City:	Seattle, WA		Sampler:	BWN	
Well ID	MW -4	Well Condition	ok		
Well Diameter Total Depth) in. 17,50 ft.	Hydrocarbon Thickness:	, or ft.	Amount Bailed (product/water):	gal.
Depth to Water	11.81 ft.	Volume Factor (\	3/4"= 0.02 (F) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	5-69 xVF 1]=	_x3 (case volume) =	Estimated Purge Volume:	gal.
Purge Equipment:	Disposable Bailer	$\sqrt{}$	Sampling Equipment:	Disposable Bailer	<u>√</u>
Equipment.	Stainless Steel Bailer		Equipment.	Pressure Bailer	
	Stack Pump			Discrete Bailer	
	Suction Pump			Other:	
	Grundfos				
	Other:				
Start Time (purge	e): 1115 We	eather Condition	s: Rain		
Sample Time/Da	1.0.	Water Colo		Odor:	Ris
Purging Flow Ra		ment Description	n:		
Did well de-wate		Гіте:	Volume:	gal.	
Time (2400 hr.)	Volume pH	Conductivity (u mhos/cm)	Temperature (C/P)	D.O. (mg/L)	ORP (mV)
1118	1 6.76	308	12.0		<u> </u>
1121	2 672	306	11,6		
1124	3 6.68	30]	11.5		
		LABORATORY II	JEORMATION		
SAMPLE ID	(#) CONTAINER REFRIG			RY ANALY	(SES
MW-4	3 x voa vial YES	HCL	NC	TPH-G/BTEX/₩₩₩	
	1 Amber L	1		TPALD) X W/5(,
1	1 500 m2 pl. +	40	+	Piss-Lead	
COMMENTS:					



Client/Facility #:	Chevron #211577	Job Number:	386765	_
Site Address:	631 Queen Anne North	Event Date:	1-21-03	_(inclusive
City:	Seattle, WA	Sampler:	BWN	_ "
Well ID	MW - 6 Well Condition	n: <u>0</u> 6		
Well Diameter	2 in. Hydrocarbon	63	Amount Bailed	
Total Depth	Z8.32 ft. Thickness:	. 105 ft.	_	<u> -</u>
Depth to Water	21-71 ft. Volum		1"= 0.04 2"= 0.17 3"= 0.38 5"= 1.02 6"= 1.50 12"= 5.80	
			Estimated Purge Volume:98	→ al.
	xVF =	x3 (case volume) =	Estimated Funge Volumes	
Purge	Disposable Bailer	Sampli ng	Disposable Bailer	_
Equipment:	Stainless Steel Bailer	Equipment:	Pressure Bailer	
	Stack Pump	_	Discrete Bailer	
Ì	Suction Pump	-	Other:	
·	Grundfos	_	7	
	Other:	7		
Sample Time/l Purging Flow l Did well de-wa	Rate: Sediment Description ater? If yes, Time: Volume DH Conductivity	Volume:	gal. D.O. ORP (mg/L) (mV)	
	LABORATOR'	/ INFORMATION		
SAMPLE II	I por ceru			
-	x/voa vial YES ACL		TPH-G/BTEX/MTBE	
		1001		
COMMENT	s: Not sampled due	to SPH		
Add/Re	eplaced Lock:	Add/Replace	ed Plug: Size:	



Client/Facility #:	Chevron #211577	Job Number:	386765	
Site Address:	631 Queen Anne North	Event Date:	1-21-03	(inclusiv
City:	Seattle, WA	Sampler:	BWN	
Well ID	MW - 9 Well C	condition: Unable	to access	
Well Diameter		carbon	Amount Bailed	
Total Depth	27.70 ft. Thickr	ness: ft	(product/water):	gal.
Depth to Water	VTA ft.	Volume 3/4"= 0.02		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	Disposable Bailer	Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer	Equipment:	Pressure Bailer	
	Stack Pump		Disercte Boiler	<u> </u>
	Suction Pump	-/-	Other:	
•	Grundfos			
	Other:			
Start Time (pur	ge): Weather 0	Conditions:	\	
Sample Time/D		ater Color:	Odor:	
Purging Flow F	Rate: gpm Sediment D	escription:		
Did well de-wa	ter?tf yes, Time:	Volume:	gal.	
Time	Valuma	ductivity Temperature	a .o.	ORP
Time (2400 hr.)	/ pH \	nhos/cm) (C/F)	(mg/L)	(mV)
	/			·
	/			
Cluby to the control of the control				
	LABOR	ATORY INFORMATION		
SAMPLE ID	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	SERV. TYPE LABORATOR	DRY ANA	LYSES
-	voa vial YES	HCL	TPH-G/BTEX/MTBE	
		-/+		
		-(+-)		
COMMENTS	: Unable to access	track parker	NET Well	
COMMENTS	· Vinditio W machini	White for the		
-				
Add/Rep	laced Lock:	Add/Replaced	d Plug: S	ize:



Well ID Well Diameter Total Depth Depth to Water Purge Equipment:	AW -10 Z in. 29,15 ft. 10,69 xVF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	Wel Hyd Thio	Il Condition: Irocarbon ckness: Volume Factor (VF		Amount Bailed (product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer	gal. 3"= 0.38 12"= 5.80 \$	(inclusive
Well ID // Well Diameter Total Depth Depth to Water Purge [Equipment: Start Time (purge)	MW -10 2 in. 29,15 ft. 12,16 ft. 16,69 xVF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	Hyd Thio	Il Condition: Irocarbon ckness: Volume Factor (VF	ft. 3/4"= 0.02 4"= 0.66 x3 (case volume) = E	Amount Bailed (product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer	3"= 0.38 12"= 5.80	
Well Diameter Total Depth Depth to Water Purge Equipment:	in. 29, 15 ft. 12-46 ft. 16-69 xVF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	Hyd Thio	Irocarbon ckness: Volume Factor (VF	ft. 3/4"= 0.02 4"= 0.66 x3 (case volume) = E	(product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer	3"= 0.38 12"= 5.80	
Total Depth Depth to Water Purge Equipment:	29, 15 ft. 12, 46 ft. 16, 69 xvF Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos	Thic	Volume Factor (VF	3/4"= 0.02 4"= 0.66 x3 (case volume) = E	(product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer	3"= 0.38 12"= 5.80	
Purge [Equipment:	Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos		Factor (VF	4*= 0.66 x3 (case volume) = E	5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer	12"= 5.80	
Equipment:	Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos		= 2-8	Sampling	Disposable Bailer	<u> </u>	
Equipment:	Stainless Steel Bailer Stack Pump Suction Pump Grundfos		<u> </u>	• -	•	<u> </u>	
Start Time (purge)	Stack Pump Suction Pump Grundfos			• •	Pressure Bailer		•
Start Time (purge)	Grundfos				Discrete Bailer Other:		-
Start Time (purge)	Other				Other.		-
	Other:						
Sample Time/Dat		Weathe	er Conditions			htz	-
•			Water Color				-
Purging Flow Rat Did well de-water	1.00		nt Description e:		gal.		
Time (2400 hr.)	Volume (gal.)		Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)	
1338		<u>-60</u> _	293	11.7			
1346		. <u>81</u> _	289 286	41.6			
				NFORMATION PE LABORATO	AN.	ALYSES	
SAMPLE ID	(") 00::::		PRESERV. TY	NZ NZ	TPH-G/BTEX/		
MW - 10	3 x voa vial	YES	7.	1	TPH(D) + W/		
MW 10	1 Amber 2 1 SOO MLP	-1	Nf	 	Diss. Lend		
MW10	1 200 40-11	-					
COMMENTS:							

Client/Facility #:		,	•	Job Number:	386765	
_	31 Queen Anne	North		Event Date:	1-21-03	(incl
City:	Seattle, WA			Sampler:	BWN	
Vell ID	MW - 11	\/\e	l Condition:	ok		
Vell ID Vell Diameter	<u> /v(₩ - { { } } </u> in.		rocarbon	ν ·	Amount Bailed	-1
Total Depth	17.30 ft.	•	ckness:	Ø ft.		gal.
Depth to Water	11,29 ft.		Volume	3/4"= 0.02	1"= 0.04 2"= 0.17	3*= 0.38
_			Factor (VF		5"= 1.02 6"= 1.50	12*= 5.80
	6.01_xvF_	.17_	=;	x3 (case volume) = 1	Estimated Purge Volume:	gal.
D			/	Sampling	Disposable Bailer	√/
	Disposable Bailer		<i>1</i>	Equipment:	Pressure Bailer	
-	Stainless Steel Baile Stack Pump			, ,	Discrete Bailer	
	Suction Pump				Other:	
•	Grundfos	B				
	Other:					
Start Time (purge): 1015 915	Weathe	r Conditions	: Rain		
Sample Time/Da		9	Water Color	: clear	Odor:	<u>no</u>
Purging Flow Ra	te: gpm.	Sedimen	t Description			
Did well de-wate	r? <u>no</u> If	yes, Time:		_ Volume:	gal.	
Time	Volume	(Conductivity	Temperature	D.O.	ORP
(2400 hr.)	(gal.)	nH	(u mhos/cm)	(C/P)	(mg/L)	(mV)
4.2 5.44			- 24			
918			289	11.9		
921 1024			286 280	<u>مارا ا</u> ۱۱، ۲		
		<u> </u>	200			·
		LABO	ORATORY IN	FORMATION		
SAMPLE ID	(#) CONTAINER		RESERV. TYP	E LABORATO		ALYSES
MW - 11	₃ x voa vial	YES	HCL	74	TPH-G/BTEX/	
	1 500m2 F).		N.C.		Diss. Lead	
Y	0 7	*		— V		
			,			
COMMENTS:						
Add/Repla	ced Lock:			Add/Replaced	l Plug:S	Size:



GETTLER-RYAN INC.

Client/Facility #:	Chevron #211577		Job Number:	386765	 (inclusive
Site Address:	631 Queen Anne	North	Event Date:	1-21-03	(inclusive
City:	Seattle, WA		Sampler:	BMn	·
			.10		
Well ID Well Diameter	DB1 - MW 12	Well Condition Hydrocarbon	$\overline{\alpha}$	Amount Bailed	6 gal.
Total Depth Depth to Water	16-28 ft.	Thickness: Volume Factor (1"= 0.04 2"= 0.17	3"= 0.38 12"= 5.80
	4.56_xvF_	1/7 = 178		Estimated Purge Volume: _	2gal.
Purge Equipment:	Disposable Bailer Stainless Steel Baile	_	Sampling Equipment:	110000.0	
	Stack Pump Suction Pump			Discrete Bailer Other:	
	Grundfos Other:		-		
	12 ~	Weather Condition	as Rain		
Sample Time/		Water Col	lor: <u>fan</u>	Odor:	*
Purging Flow Did well de-w		Sediment Descripti f yes, Time:	-	gal.	
Time (2400 h	Volume r.) (gal.)	pH Conductivity (u mhos/cm)	Temperatur (C / ∕)	e D.O. (mg/L)	ORP (mV)
1303		691 363	11-8		
1306		6.86 359	11.6		
			INFORMATION TYPE LABORA	TORY ANA	ALYSES
SAMPLE		REFRIG. PRESERV.	NC NC	TPH-G/BTEX/	t .
P6.1 - MW	112 3 x voa vial	YES HCL	1	TPH(D) x W	756
	1 500 mL Pl.	4n	•	Piss. Lond	
COMMENT	s:				
Add/R	eplaced Lock:		Add/Replac	ed Plug:	Size:

Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne No	rth	Event Date:	1-21-03	(inclus
City:	Seattle, WA		Sampler:	BWN	
Vell ID	DB2-MW13	Well Condition	: Insuffic	cient water	
Vell Diameter	2 in.	Hydrocarbon		Amount Bailed	
Total Depth	19.90 ft.	Thickness:	ft.	(product/water):	gal.
Depth to Water	[9.0] ft.	Volume	3/4"= 0.02	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
		Factor (\	<u> </u>		
	xVF	=	_ x3 (case volume) = 1	Estimated Purge Volume:	gai.
Purge	Disposable Bailer		Sampling	Disposable Bailer	
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump			Discrete Bailer	
	Suction Pump			Other:	
	Grundfos				
	Other:	7			
				/	
Start Time (pur	ne): W	/ /eather Condition	s:\ /	/	
Sample Time/E	· / · /	Water Cold		Odor:	
		Water Core	л. 🔪	Oddi.	
Purging Flow F		diment Descriptio			
·	Rate: gpm. Se		n:	gal.	
Purging Flow F Did well de-wa	Rate: gpm. Set ter? If yes,	diment Descriptio	vn: Volumes	gal.	
Purging Flow F Did well de-wa	Rate: gpm. Serter? If yes,	diment Descriptio , Time:	vn: Volumes Temperature	gal. D.O.	ORP
Purging Flow F Did well de-wa	Rate: gpm. Set ter? If yes,	diment Descriptio	vn: Volumes	gal.	
Purging Flow F Did well de-wa	Rate: gpm. Serter? If yes,	diment Descriptio , Time:	vn: Volumes Temperature	gal. D.O.	ORP
Purging Flow F Did well de-wa	Rate: gpm. Serter? If yes,	diment Descriptio , Time:	vn: Volumes Temperature	gal. D.O.	ORP
Purging Flow F Did well de-wa	Rate: gpm. Serter? If yes,	diment Descriptio , Time:	vn: Volumes Temperature	gal. D.O.	ORP
Purging Flow F Did well de-wa	Rate: gpm. Serter? If yes,	diment Descriptio , Time:	vn: Volumes Temperature	gal. D.O.	ORP
Purging Flow F Did well de-wa	Rate: gpm. Serter? If yes,	diment Descriptio , Time:	vn: Volumes Temperature	gal. D.O.	ORP
Purging Flow F Did well de-wa	Rate: gpm. Sector? If yes, Volume pH (gal.)	diment Description, Time: Conductivity (u mhos/cm)	Volumes Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa	Rate: gpm. Sector? If yes, Volume pH (gat.) (#) CONTAINER REFR	Conductivity (umhos/cm) LABORATORY II	Volumes Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa Time (2400 hr.)	Rate: gpm. Sector? If yes, Volume pH (gal.)	Conductivity (umhos/cm) LABORATORY II	Volumes Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa Time (2400 hr.)	Rate: gpm. Sector? If yes, Volume pH (gat.) (#) CONTAINER REFR	Conductivity (umhos/cm) LABORATORY II	Volumes Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa Time (2400 hr.)	Rate: gpm. Sector? If yes, Volume pH (gat.) (#) CONTAINER REFR	Conductivity (umhos/cm) LABORATORY II	Volumes Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa Time (2400 hr.)	Rate: gpm. Sector? If yes, Volume pH (gat.) (#) CONTAINER REFR	Conductivity (umhos/cm) LABORATORY II	Volumes Temperature (C/F)	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa Time (2400 hr.)	Rate: gpm. Sector? If yes, Volume pH (gar.) pH (gar.)	Conductivity (umhos/cm) LABORATORY II S HCL	Volumes Temperature (C/F) NFORMATION PE LABORATO	gal. D.O. (mg/L)	ORP (mV)
Purging Flow F Did well de-wa Time (2400 hr.)	Rate: gpm. Sector? If yes, Volume pH (ggf.) pH (#) CONTAINER REFR x voa vial YES	Conductivity (umhos/cm) LABORATORY II S HCL	Volumes Temperature (C/F) NFORMATION PE LABORATO	gal. D.O. (mg/L)	ORP (mV)

Site Address: 631 Queen Anne North Event Date:	Client/Facility #:	Chevron #211577		Job Number:	386/65	
Well ID			orth	Event Date:	1/21/03	(inclus
Mell Diameter	City:	Seattle, WA		Sampler:	BWN	
Factor (VF)	Well Diameter Total Depth	2 in. 24.45 ft.	Hydrocarbon Thickness:	ft.	Amount Bailed (product/water):	
Purge Equipment: Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other: Other: Odor: Odo	Deptil to water					12"= 5.80
Equipment: Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other: Start Time (purge): Sample Time/Date: Purging Flow Rate: Did well de-water? Time (2400 hr.) SAMPLE ID Water Color: If yes, Time: LABORATORY INFORMATION SAMPLE ID X voa vial X voa vial X yes Yes HCL Pressure Bailer Discrete Bailer Other: Discrete Bailer Other: Discrete Bailer Other: Discrete Bailer Other: Discrete Bailer Other: Dother: Didwell de-water Other: Dodor: Odor: Temperature (C/F) (mg/L) (mg/L) (mV) ANALYSES TPH-G/BTEX/MTBE	Purge		==	Sampling		
Suction Pump Grundfos Other: Start Time (purge): Sample Time/Date: Purging Flow Rate: gpm. Sediment Description: Did well de-water? If yes, Time: Volume: (2400 hr.) Sample Time (pall.) Time (2400 hr.) Sample Time (2400 hr.) Sample Time (2400 hr.) Sediment Description: Volume: (2400 hr.) Sample Time/Date: If yes, Time: Volume: (2400 hr.) Sample Time/Date: Sample Time/Date: If yes, Time: Volume: (2400 hr.) Sample Time/Date: Sample Time/Date: Analyses Analyses HCL TPH-G/BTEX/MTBE	_	•		Equipment:	-	
Start Time (purge):		•			-	
Sample Time/Date:	·	Grundfos			Other.	
Purging Flow Rate: gpm. Sediment Description: Did well de-water? If yes, Time: Volume: gal. Time (2400 hr.) (gal.) pH (umhos/cm) Temperature D.O. ORP (mg/L) (mV) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERY: TYPE LABORATORY TPH-G/BTEX/MTBE LABORATORY INFORMATION TPH-G/BTEX/MTBE						
Did well de-water? If yes, Time: Volume: gal. Time (2400 hr.) (gal.) pH (u mhos/cm) Temperature (C/F) (mg/L) (mV) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERY-TYPE LABORATORY ANALYSES TYPH-G/BTEX/MTBE						
LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV-TYPE LABORATORY TPH-G/BTEX/MTBE Time (2400 hr.) (gal.) (mV) (C/F) (mg/L) (mV) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV-TYPE LABORATORY TPH-G/BTEX/MTBE		9			gal.	
SAMPLE ID (#) CONTAINER REFRIG. PRESERV-TYPE LABORATORY ANALYSES x voa vial YES HCL TPH-G/BTEX/MTBE		Dr				
SAMPLE ID (#) CONTAINER REFRIG. PRESERV-TYPE LABORATORY ANALYSES x voa vial YES HCL TPH-G/BTEX/MTBE					· · · · · · · · · · · · · · · · · · ·	
SAMPLE ID (#) CONTAINER REFRIG. FRESELV. TTL X VOA VIAI YES HCL TPH-G/BTEX/MTBE					DDY ANA	LYSES
COMMENTS: NACCUSSIBLE Truck parked over well	SAMPLE ID	("/		TPE LABORATO		
COMMENTS: NACCUSSIBLE Was truck parked over well						
COMMENTS: Naccessible was truck parked over well						
	COMMENTS	s: Nacces	ssible	truc	ck parked over	r well
Add/Replaced Lock: Add/Replaced Plug:Size:					I Diversion of	iao:

Client/Facility #:	Chevron #211577	Jo	b Number:	386765	
Site Address:	631 Queen Anne North	Ev	ent Date:	1-21-03	(inclusive)
City:	Seattle, WA	Sa	ampler:	BWN	
Well ID	DB & - MW 15 We	ell Condition:	οK		
Well Diameter		drocarbon	~7	Amount Bailed	
Total Depth		ckness:	Ø ft.	(product/water):	gal.
Depth to Water	9.29 ft.	Volume Factor (VF)	3/4"= 0.02 4"= 0.66		3"= 0.38 12"= 5.80
	15-51 xVF 117	= 2-5 x3	(case volume) = [Estimated Purge Volume: 7	- <u>5</u> gal.
Purge	Disposable Bailer		ampli ng	Disposable Bailer	1
Equipment:	Stainless Steel Bailer		quipment:	Pressure Bailer	
	Stack Pump	2.7800000		Discrete Bailer	
	Suction Pump			Other:	
	Grundfos				
	Other:	^			
Start Time (pur	and Weather	er Conditions:	Rain		
Sample Time/D		Water Color:		Odor: N	0
Purging Flow F		nt Description:			
Did well de-wa	<u> </u>):	Volume:	gal.	
Time	Volume	Conductivity	Temperature	D.O.	ORP
(2400 hr.)	На	(u mhos/cm)	(C/F)	(mg/L)	(mV)
947	2-5 7.12	306	11/8		
954	7.16	309	11.8		
1001	7.5 714	315	11.6		
					······
-					
SAMPLE ID		PRESERV. TYPE		ORY ANALY	SES
DB 8 - MW	("/ "	HCL	NC	TPH-G/BTEXHARE	
" 1	" Amber L	4		TPH(D) x : W/36	
4	1 500 mLP1.	NA	<u> </u>	Diss. Load	
			<u> </u>		
COMMENTS	•				
		. <u></u>			
				 v 	
Add/Ren	placed Lock:	P	Add/Replaced	d Plug: Size	e:



-	Chevron #21157			ob Number: <u>3</u> vent Date:	1-21-03	 (inclusi
Site Address:	631 Queen Anne	North		•••	BWN	`
City:	Seattle, WA	_		ampler: _	PM14	
Well ID	DB9 - MW 16	We	II Condition:	ok		
Well Diameter	2 in.	Нус	irocarbon	17	Amount Bailed	A .
Total Depth	24.70 ft.	Thi	ckness:	ft.	(product/water):	gal.
Depth to Water	1) 081		Volume Factor (VF)	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	12-82 XVF	17			Estimated Purge Volume:	gal.
	xvr					1
Purge	Disposable Bailer		V	Sampling Equipment:	Disposable Bailer Pressure Bailer	
Equipment:	Stainless Steel Bai	ler		Equipment	Discrete Bailer	
	Stack Pump				Other:	
	Suction Pump					
	Grundfos					
	Other:					
	urge): 840	Weath	er Conditions:	Rain	_	
Start Time (pu	··· 3 · /·	VV COUI	Water Color	- 1	Odor	ho
	/Date: <u>4005 /</u> Rate: gpm.	Sedime	nt Description			
Purging Flow Did well de-w			e:	Volume:	gal.	
Did Well de W	vator. No	•				
				T	n o	ORP
Time		рН	Conductivity	Temperature (C/ F)	D.O. (mg/L)	ORP (mV)
Time (2400 i		рН	Conductivity (u mhos/cm)	_		
(2400 i	hr.) (gal.)			_		
	hr.) (gal.)	pH 6.86	(u mhos/cm)	(C/F) 		
346 85	hr.) (gal.)	L.86_	(u mhos/cm)	(C/F)		
(2400 f 34L 85	hr.) (gal.)	6.86 6.81	350 346	(C/F) 		
(2400 f 34) L 85	hr.) (gal.)	6.87 6.77	(umhos/cm) 350 346 341	(C/F) - [].9 -]].6 -]],5		
(2400 i જિમ્ જિંદ જિંદ જિંદ	hr.) (gal.) 2 4 8 6	6.86 6.87 6.77	(umhos/cm) 350 346 341 BORATORY IN	(C/F) 	(mg/L)	
(2400 f 34) 85 85	hr.) (gal.) 2 4 8 (#) CONTAINER	6.86 6.87 6.77 LA	(umhos/cm) 350 346 341	(C/F) 	(mg/L)	(mV)
(2400 i જિમ્ જિંદ જિંદ	in (#) CONTAINER	6.86 6.87 6.77 LA	(umhos/cm) 350 346 341 BORATORY IN PRESERV. TYI HCL	(C/F)	ORY AITH-G/BTEX/	(mV)
(2400 f 34) 85 85 SAMPLE OB 9 - M	in (#) Container	6.86 6.87 6.77 LA	(umhos/cm) 350 346 341 BORATORY IN PRESERV. TYI HCL	(C/F)	(mg/L)	(mV)
(2400 f 344 85 85 SAMPLE OB 9 - M	in (#) container (#) container (#) 3 x voa vial	6.86 6.87 6.77 LA	(umhos/cm) 350 346 341 BORATORY IN PRESERV. TYI HCL	(C/F)	ORY AITH-G/BTEX/	(mV)
(2400 f 34 L 85 85 SAMPLE OB 9 - M	ID (#) CONTAINER W/h 3 x voa vial 1) Ambox L 1 500 mLP	6.86 6.87 6.77 LA	(umhos/cm) 350 346 341 BORATORY IN PRESERV. TYI HCL	(C/F)	ORY AITH-G/BTEX/	(mV)
(2400 f 344 85 85 SAMPLE OB 9 - M	ID (#) CONTAINER W/h 3 x voa vial 1) Ambox L 1 500 mLP	6.86 6.87 6.77 LA	(umhos/cm) 350 346 341 BORATORY IN PRESERV. TYI HCL	(C/F)	ORY AITH-G/BTEX/	(mV)



Client/Facility #: _C	hevron #21157	7	Jo	b Number: 38	86765		
Site Address: 6	31 Queen Ann		Ev	vent Date:	1-71.03		(inclusiv
City: S	eattle, WA		Sa	ampler:	BWN		
Well Diameter	24.85 ft. 9.62 ft.	Ну	ell Condition: drocarbon ickness: Volume Factor (VF)	ft. 3/4"= 0.02	Amount Bailed (product/water): 1"= 0.04	gal. 3"= 0.38 12"= 5.80	
Equipment:	15-23 xVF Disposable Bailer Stainless Steel Bai Stack Pump Suction Pump Grundfos Other:		✓ s	Sampling D Equipment: P	imated Purge Volume: _ disposable Bailer _ dressure Bailer _ discrete Bailer _ dither: _	7-5 gal.	- - -
Start Time (purge) Sample Time/Dat Purging Flow Rat Did well de-water	e: <u>830</u> / e: gpm.	Sedime	er Conditions: _ Water Color: _ nt Description: _ e:	Rain clear Volume:	Odor:gal.	Slight	- - -
	Valuma	pН	Conductivity (u mhos/cm)	Temperature (C)	D.O. (mg/L)	ORP (mV)	
Time (2400 hr.)	Volume (gal.)					, ,	
	(gal.)	6.88 6.81	363 356 357)	12.D 11.8 11.6			- - -
(2400 hr.)	(gal.)	6.81	356	12.D 11.8 11.6			



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	Chevron #211577	7	_	386765	(inclusive)
Site Address:	631 Queen Anne	North	Event Date:	1-21-03	(Inclusive)
City:	Seattle, WA		Sampler:	BMN	
Well ID Well Diameter Total Depth Depth to Watel	PW - 2 in. 21.40 ft. ft.	Well Condition Hydrocarbon Thickness:	: OK ft.	Amount Bailed (product/water): 1"= 0.04 2"= 0.17	gal. 3"= 0.38
Deptil to Water		Factor (5"= 1.02 6"= 1.50 Estimated Purge Volume:	12"= 5.80 gal.
Purge Equipment:	Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:	er	Sampling Equipment:	Disposable Bailer Pressure Bailer Discrete Bailer Other:	<u> </u>
Sample Time	urge): 1230 /Date: 1245 / Rate: gpm. vater?	Weather Condition Water Col Sediment Description f yes, Time:	or: <u>Clear</u> on:		YES
Time (2400 l		pH Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
			<i>f</i>		
	/	LABORATORY			
		REFRIG. PRESERV. T	YPE LABORATO		IALYSES
SAMPLE FW -2 FW 2 PW 2	3 x voa vial	YES HCL	PZ	TPH-G/BTEXION TPH-(D) x W Diss. Lead	



WELL MONITORING/SAMPLING FIELD DATA SHEET

nevron #211577 81 Queen Anne Neattle, WA 2W - 3 8 in. ft. VTL ft. xVF disposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos Other:	Well Condition Hydrocarbon Thickness: Volume Factor	ft. 3/4*= 0.02 (VF) 4*= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume:	12"= 5.80 gal.
in. tt. VTL ft. xVF disposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos	Hydrocarbon Thickness: Volume Factor	ft. 3/4*= 0.02 (VF) 4*= 0.66 x3 (case volume) = 1	Amount Bailed (product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 gal.
in. ft. VTL ft. xVF visposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos	Hydrocarbon Thickness: Volume Factor	ft. 3/4*= 0.02 (VF) 4*= 0.66 x3 (case volume) = i	Amount Bailed (product/water): 1*= 0.04	3"= 0.38 12"= 5.80 gal.
in. ft. VTL ft. xVF visposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos	Hydrocarbon Thickness: Volume Factor	ft. 3/4*= 0.02 (VF) 4*= 0.66 x3 (case volume) = i	Amount Bailed (product/water): 1*= 0.04	3"= 0.38 12"= 5.80 gal.
in. ft. VTL ft. xVF visposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos	Thickness: Volume Factor	3/4*= 0.02 (VF) 4*= 0.66 x3 (case volume) = i	(product/water): 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 gal.
xVF visposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos	Volume Factor	3/4*= 0.02 (VF) 4*= 0.66 x3 (case volume) = i	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer Pressure Bailer Discrete Bailer	3"= 0.38 12"= 5.80 gal.
xVF risposable Bailer stainless Steel Bailer stack Pump Suction Pump Grundfos	Factor	(VF) 4"= 0.66 x3 (case volume) = i	5"= 1.02 6"= 1.50 Estimated Purge Volume: Disposable Bailer Pressure Bailer Discrete Bailer	12"= 5.80 :gal.
risposable Bailer Itainless Steel Bailer Itack Pump Suction Pump Grundfos	L	_x3 (case volume) = i	Estimated Purge Volume: Disposable Bailer Pressure Bailer Discrete Bailer	gal.
risposable Bailer Itainless Steel Bailer Itack Pump Suction Pump Grundfos	=	Sampling	Disposable Bailer Pressure Bailer Discrete Bailer	
tainless Steel Bailer Stack Pump Suction Pump Grundfos			Pressure Bailer Discrete Bailer	
tainless Steel Bailer Stack Pump Suction Pump Grundfos		Equipment:	Pressure Bailer Discrete Bailer	
Stack Pump Suction Pump Grundfos				
Suction Pump Grundfos			Other:	7
1		- (/	
Other:			/	
	\			
	\			
	\		dan	
		\	Qdor:	
	1	7	gal.	
, II y	es, 1/11le	\ounderset		
Volume	H Conductivity	Temperature		ORP (mV)
(gal.)	/ (u mnos/cm)	(C/F)	(mg/L)	(,
		- /		
		<u> </u>		
LUN DON'T AND DE			ORY AN	ALYSES
1,007		THE EXOCITATION	7PH-G/BTEX/MTB	
City Se	ver in ac	50 325		
				·····
	Volume (gal.) (#) CONTAINER RI x voa vial	Water Co gpm. Sediment Descripti If yes, Time: Volume (gal.) LABORATORY (#) CONTAINER REFRIG. PRESERV. T x voa vial YES HCL City Sewer in acc	Water Color gpm. Sediment Description: If yes, Time: Volume (gal.) LABORATORY INFORMATION (#) CONTAINER REFRIG. PRESERV. TYPE LABORATO X voa vial YES HCL City Sewer in area 2772	Water Color Odor: gpm. Sediment Description: If yes, T/me: Yolume: gal. Volume (gal.) PH (umhos/cm) (C/F) (mg/L) LABORATORY INFORMATION (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY AN X voa vial YES HCL XPH-G/BTEX/MTE



WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	Chevron #211577		Job Number: Event Date:	386765 [-2 -03	(inclusive
Site Address:	631 Queen Anne Nor	tn	Sampler:	BWN	
City:	Seattle, WA				
Well ID Well Diameter Total Depth Depth to Water	PW-4 9 in. 32-78 ft. 17.88 ft.	Well Condition Hydrocarbon Thickness: Volume Factor (**)	ft. 3/4"= 0.02 VF) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	gal. 3"= 0.38 12"= 5.80
Purge Equipment:	Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Other:	= 44	_x3 (case volume) = Sampling Equipment:	Estimated Purge Volume: _ Disposable Bailer _ Pressure Bailer _ Discrete Bailer _ Other: _	<u>~ 100</u> gal.
Start Time (pu Sample Time/ Purging Flow Did well de-w Time (2400 h	Date: 1515 / Rate: 2 gpm. Seater? 16 yes,	Veather Condition Water Coldiment Description Time: Conductivity (u mhos/cm)	on: Gray on: Volume:	_	ORP (mV)
143 145 150	0 66 6.87	272	12.0 11.4 10.9		
		LABORATORY	INFORMATION		
SAMPLE RW - H RW H	D (#) CONTAINER REFE 3 x voa vial YE 1 Amber L 1 500 ml fl.	RIG. PRESERV. 1		TPH-G/BTEXA	
COMMENT	eplaced Lock:		Add/Replace	ed Plug:	Size:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #:	Chevron #211577		Job Number:	386765	
Site Address:	631 Queen Anne No	rth	Event Date:	1-21-03	(inclus
City:	Seattle, WA		Sampler:	BWN	
Well ID	RW - 5	Well Condition	: 0 K		
Well Diameter	in.	Hydrocarbon		Amount Bailed	
Total Depth	14.25 ft.	Thickness:	Ø ft.		Ø ∖gal.
Depth to Water	11.5) ft.	Volume Factor (3/4"= 0.02 VF) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
	xVF	=	_ x3 (case volume) =	Estimated Purge Volume:	gal.
Purge	Disposable Bailer	1	Sampling	Disposable Bailer	1
Equipment:	Stainless Steel Bailer		Equipment:	Pressure Bailer	
	Stack Pump	**************************************		Discrete Bailer	
	Suction Pump			Other:	
	Grundfos Other:				
Start Time (purg Sample Time/D Purging Flow F	Date: 1215 /	eather Condition Water Colc diment Descriptio	or: clas	Odor:	xc3
Did well de-wa	ter? No If yes,	Time:	Volume:	gal.	
Time (2400 hr.)	Volume (gal.)	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
	- 		$\sqrt{-}$		* .
			X_{-}		
			/		· · · · · · · · · · · · · · · · · · ·
×		LABORATORY II	NEORMATION		
SAMPLE ID	(#) CONTAINER REFR			RY ANA	ALYSES
RW - 5	2 x voa vial YES	HCL	NC	TPH-G/BTEX/M	TANKS OF THE PROPERTY OF THE P
RW 5	1 Amber L	*	11	74H(D) x w/	36
RW 5	1 500 ML Pl. +	40,	7	Piss Lend	
COMMENTS:	NO PURCE	due to loc	ation of	well	
	V-1				
Add/Reni	aced Lock:	-	Add/Replaced	Plua: S	ize:

	٠.		D	and and C	roc to C	hovr	on C	onta	ict:	∐Yes ∏No		53	A O	410	ζ	C	Chai	n-o	t-Cı	OJZL	ay-	Kecoru
Fax copy	ot L	.ab		ort and C		HEVI	011 C			<u> </u>		Ť		vron Co				BRETT				
			Ct	nevron Facility #: <u> </u>	31 OUFFN A	NNE NO	ORTH, S	SEATTL	E, WA									925-84		8		
				sultant Project #:										oratory		-	NORTH	CREEK				
Chevron Produ P.O. Box 6		.	Cons	onsultant Name: (SETTLER-RYA	N INC.									Service							
San Ramon, CA FAX: (925) 84	9458	3		Address: 6	747 SIERRA	COUR	r, suit	E J, DU	BLIN,	CA 945	68				Service llected	roos:	٠.	Ben	NEV	मेग		
PAX. (323) 04	2 037			Project Contact:	(Name) DEAN	VA L. H.	ARDING	<u> </u>						npies co nature:		Ber	M	unto	20	भेग		·
		1		•	(Phone) 925-5	51-755				51-789					v Serie)			Remarks
								tate M	ethod:	LICA	OR	✓ WA		<u>"</u>	V Jene	<u> </u>						DISSOLVED LEAD MAS
					(8015		. gel		ທ									ulfate		Lead		-DEEN FIELD
	ners		ion				+,	nates	ırbon	Si	anics	ļ	AA)		ph.		þ	te/S				needs to
ber	Containers	Charcoal	erva		1) t	ш	43	Oxygenates	laloca)rgar	Org	ase	AP or Zn,		E/Na	۵	tende	/Nitra	و د	New		be fillered
Sample Number		A	Sample Preservation	lme	TPH-G/BTEX+MTBE +8021) TPH-G/BTEX (8015 + 8021)	BTEX + MTBE (8260)	ssel	1	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oll and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	6	BTEX/MTBE/Naph. (8020)	трн - нсго	TPH-D Extended	Alkalinity/Nitrate/Sulfate	Ferrous Iron	Dissolved		1 110
mple	Number of	Matrix Sa Soll An	mple	Date/Time	H-G/6 (021) H-G/1	EX +	TPH Diesel (8015)	(8260)	urge2 3010)	urge 8260	xtrac 8270	JII an 5520	Metal Cd, C	втех (8020)	87EX (802)	ТРН	TPH-	Alka	Ferr	á		Lab Sample No.
Sai			ļ.—		4 + B + B + B + B + B + B + B + B + B +	8)	1 8 8	18	1 2 3	45	шС	00								:		Noxbusy
TB-LB	2	W	HU	1-21-03	X		~	ļ												X		01
VP	5			1 1150	<u> </u>	 	X													X		02
VP7(MW3)	5			1105	7	ļ	$\tilde{\lambda}$										 			X		03
VP8(MW7)	5			1035	<u> </u>		X				<u> </u>		-	-	 					X		04
MW4	5			1130	<u> </u>		X		<u> </u>	-				<u> </u>			1	1		X		05
01 WM	5	П		1400	X		X	ļ	-	-	 		 				 			X		06
MW 11	5			930	X		X	<u> </u>		 	-	 	-		 			 	 	X		07
DB 1 (MW12)	5	\prod		1315	X		X	<u> </u>	 		 	<u> </u>	├		 				 	\	OB	Oxy's (8260)
DB8(MW15				1010	X		X	<u> </u>		 	 -		-		 -		-		-	X	09	1 - MTBE
DB9(MW16)	5	\prod		905	X		$ \times $	ļ	 	-	 		 		-		-		1	7	10	2 - TBA 3 - TAME
DB10(MW 17)	5			130	X		X	ļ	ļ	-	 	 		 		 	 		1	X	11	4 - DIPE 5 - ETBE
RW2	৸			1245	X				<u> </u>		ļ	╁—		1		 	 	-	1	X	1,7	6 - 1,2-DCA
RW 4	5			1515	X		X	<u> </u>	 		 	<u> </u>	 	-		-	1	 	1	1	1, 7	7 - EDB 8 - ETHANOL
PW 5	5	*	۲	4 V -		<u> </u>		Ciacat	50)		Organ	ization	I IDa	ate/Time	<u>.l</u>	Iced (/ Y/N)	1			· · · ·	
Relinquished By				Organization	Date/Time	$\perp \cup \setminus$	ved By (aignatu	16)		0.901			•				1	Turn /	Around T	ime (Ci	rcle Choice)
Ben 1	lew	tor		6RInc	1-21-03 16		1 = -	C!			Organ	ization	D	ate/Time	e	Iced (Y/N)	ــ ا	7.0			
Relinquished By	/ (Sigr	ature)	Organization	Date/Time	Recei	ved By (Signatu	re)		O gan					1		1 10	120	4	4 Hrs. 8 Hrs.	
										(Cianata	150)			ate/Tim		Iced (Y/N)	1 m	Ί ⁻		Days O Days	
Relinquished B	y (Sigr	nature)	Organization	Date/Time	Recei	ved For	Laborat	ory by ((Signatu	ne)		1			1 '	کوی				ontract	ed
							rVV							/21(0	7	16						



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3209 Denali Street, Anchorage, AK 99503 907.334.9200 fax 907.334.9210 **Anchorage**

FEB 1 0 2003

GETLER-RYAN MC. GENERAL CONTACTORS

04 February 2003

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 01/21/03 16:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanne Garthwaite

Searne Garthate

Project Manager



Anchorage

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

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP 1	B3A0412-01	Water	01/21/03 11:50	01/21/03 16:45
VP 7 (MW 3)	B3A0412-02	Water	01/21/03 11:05	01/21/03 16:45
VP 8 (MW 7)	B3A0412-03	Water	01/21/03 10:35	01/21/03 16:45
MW 4	B3A0412-04	Water	01/21/03 11:30	01/21/03 16:45
MW 10	B3A0412-05	Water	01/21/03 14:00	01/21/03 16:45
MW 11	B3A0412-06	Water	01/21/03 09:30	01/21/03 16:45
DB 1 (MW12)	B3A0412-07	Water	01/21/03 13:15	01/21/03 16:45
DB 8 (MW15)	B3A0412-08	Water	01/21/03 10:10	01/21/03 16:45
DB 9 (MW16)	B3A0412-09	Water	01/21/03 09:05	01/21/03 16:45
DB 10 (MW17)	B3A0412-10	Water	01/21/03 08:30	01/21/03 16:45
RW 2	B3A0412-11	Water	01/21/03 12:45	01/21/03 16:45
RW 4	B3A0412-12	Water	01/21/03 15:15	01/21/03 16:45
RW 5	B3A0412-13	Water	01/21/03 12:15	01/21/03 16:45

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 Garthatt



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

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

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

		Reporting		•					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP 1 (B3A0412-01) Water Sampled	1: 01/21/03 11:50	Received	: 01/21/03	16:45					
Gasoline Range Hydrocarbons	36700	5000	ug/l	100	3A29006	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	90.5	50.0	11	**	"	ŧ	**		
Toluene	801	50.0	11	н	Ħ	11	"	tt.	
Ethylbenzene	500	50.0	**	"	Ħ	**	n	н	
Xylenes (total)	6630	100	**	11	"	11	"	tr	
Surrogate: 4-BFB (FID)	89.6 %	57-125			"	. "	"	#	
Surrogate: 4-BFB (PID)	90.0 %	62-120			n	"	n	"	
VP 7 (MW 3) (B3A0412-02) Water	Sampled: 01/21	/03 11:05	Received:	01/21/03 16:	45				
Gasoline Range Hydrocarbons	41600	10000	ug/l	200	3A29006	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	9440	100	**	11	"	11	† 1	II .	
Toluene	1470	100	ŧI	11	†1	**	"	**	
Ethylbenzene	1360	100	**	#	11	н	11	ii .	
Xylenes (total)	6190	200	"	**		11	11	11	
Surrogate: 4-BFB (FID)	85.0 %	57-125			#	"	"	"	
Surrogate: 4-BFB (PID)	88.8 %	62-120			rr	"	"	"	
VP 8 (MW 7) (B3A0412-03) Water	Sampled: 01/21	/03 10:35	Received:	01/21/03 16:	:45				
Gasoline Range Hydrocarbons	1910	500	ug/l	10	3A29006	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	139	5.00	11	11	"	11	ti ti	11	
Toluene	291	5.00	ti	**	Ħ	"	"	"	
Ethylbenzene	59.1	5.00	11	Ħ	11	ti	11	11	
Xylenes (total)	216	10.0	11	11	11	"	11	Ħ	
Surrogate: 4-BFB (FID)	85.8 %	57-125		<u> </u>	"	"	"	n .	
Surrogate: 4-BFB (PID)	90.0 %	62-120			n,	#	"	n	

North Creek Analytical - Bothell

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Jeanne Garthante



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3209 Denali Street, Anchorage, AK 99503 907.334.9200 fax 907.334.9210

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

Project: Chevron #21-1577

Project Number: 386765.80

Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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
MW 4 (B3A0412-04) Water	Sampled: 01/21/03 11:30) Receive	d: 01/21/03	16:45					
Gasoline Range Hydrocarbon		10000	ug/l	200	3A29006	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	10700	100	11	**	11	11	и	**	
Toluene	10100	100	11	**	H	Ħ	"	ti	
Ethylbenzene	1920	100	11	**	11	11	n,	н	
Xylenes (total)	11700	200_	tt	"		**			
Surrogate: 4-BFB (FID)	90,4 %	57-125			n	u	#	tt .	
Surrogate: 4-BFB (PID)	89.6 %	62-120			n	"	"	n	
MW 10 (B3A0412-05) Water	Sampled: 01/21/03 14:	00 Receiv	ed: 01/21/0	3 16:45					
Gasoline Range Hydrocarbon		50.0	ug/l	1	3A29006	01/29/03	01/29/03		
Benzene	3.44	0.500	*11	11	11	ti	11	11	
Toluene	0.550	0.500	**	11	Ħ	Ħ	"	et	I-06
Ethylbenzene	0.519	0.500	11	"	11	11	tt.	11	I-06
Xylenes (total)	3.24	1.00	"	11	11	11			1-06
Surrogate: 4-BFB (FID)	87.3 %	57-125			" .	"	"	"	
Surrogate: 4-BFB (PID)	89.4 %	62-120			"	"	"	"	
MW 11 (B3A0412-06) Water	Sampled: 01/21/03 09	:30 Recei	ved: 01/21/0	3 16:45					
Gasoline Range Hydrocarbons		50.0	ug/l	1	3A29007	01/29/03	01/29/03		
Benzene	ND	0.500	tt .		**	It	**	**	
Toluene	ND	0.500	H	#	. "	**	**	"	
Ethylbenzene	ND	0.500	u	Ħ	"	**	"	!!	
Xylenes (total)	ND	1.00	tt	H	"	"			
Surrogate: 4-BFB (FID)	95.2 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	106%	62-120			n	"	"	n	

North Creek Analytical - Bothell

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Jeanne Garthaute



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

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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
DB 1 (MW12) (B3A0412-07) Water	Sampled: 01/2	1/03 13:15	Received: (01/21/03 16	:45				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3A29007	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	Ħ	11	11	11	11	11	
Toluene	ND	0.500	11	**	**	"	11	11	•
Ethylbenzene	ND	0.500	"	**	11	tr.	"	11	
Xylenes (total)	ND	1.00	· n	11	n	11	Ħ	п	
Surrogate: 4-BFB (FID)	94.4 %	57-125			"	"	#	"	
Surrogate: 4-BFB (PID)	108 %	62-120			"	"	"	"	
DB 8 (MW15) (B3A0412-08) Water	Sampled: 01/2	1/03 10:10	Received:	01/21/03 16	:45				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3A29007	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	Ħ	11	11	R	ıı	"	
Toluene	ND	0.500	u	11	Ħ	n	11	11	
Ethylbenzene	ND	0.500	11	11	11	tt	"	n	
Xylenes (total)	ND	1.00	Ħ	11	H	11	"	11	
Surrogate: 4-BFB (FID)	95.6%	57-125			"	n	"	"	
Surrogate: 4-BFB (PID)	101 %	62-120			"	"	"	"	
DB 9 (MW16) (B3A0412-09) Water	Sampled: 01/2	21/03 09:05	Received:	01/21/03 10	5:45				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3A29007	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	ND	0.500	**	**	**	*1	u	"	
Toluene	ND	0.500	u	11	tt	11	11	"	
Ethylbenzene	ND	0.500	11	11	11	н	"	11	
Xylenes (total)	ND	1.00	11	II .		Ħ	11	H	
Surrogate: 4-BFB (FID)	94.2 %	57-125			"	"	"	"	
Surrogate: 4-BFB (PID)	100 %	62-120			"	"	H	"	

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: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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

		Reporting							21
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DB 10 (MW17) (B3A0412-10) Water	Sampled: 01/2	1/03 08:30	Received:	01/21/03 1	6:45				
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	3A29007	01/29/03		NWTPH-Gx/8021B	
Benzene	ND	0.500	**	#1	11	**	11	"	
Toluene	ND	0.500	"	#1	Ħ	tt	**		
Ethylbenzene	ND	0.500	'n		**	Ħ	11	**	
Xylenes (total)	ND	1.00	**	**	11	11			
	94.4 %	57-125			"	"	"	n .	
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	102 %	62-120			"	11	"	"	
RW 2 (B3A0412-11) Water Sample	d: 01/21/03 12:	45 Receive	d: 01/21/03	16:45	2 + 20007	01/29/03	01/29/03	NWTPH-Gx/8021B	
Gasoline Range Hydrocarbons	126	50.0	ug/l	1	3A29007	01/29/03	U1/29/U3	"	
Benzene	33.5	0.500	**	,,	"	17	11	**	
Toluene	0.859	0.500	н	"	" "	· 11	11	**	
Ethylbenzene	1.28	0.500	**	"	"	11	11	**	
Xylenes (total)	4.11	1.00			<u>.</u>				
Surrogate: 4-BFB (FID)	96.0 %	57-125			n		"		
Surrogate: 4-BFB (PID)	100 %	62-120			11	"	"		
RW 4 (B3A0412-12) Water Sampl	ed: 01/21/03 15	:15 Receiv				00/04/02	02/04/02	NWTPH-Gx/8021B	
Gasoline Range Hydrocarbons	689	50.0	ug/l	1	3B04003	02/04/03	02/04/03	" WWIFH-OXOUZID	
Benzene	0.991	0.500		n	11	"	"	11	
Toluene	ND	0.500	**	11	**		" "	11	
Ethylbenzene	2.37	0.500		**	11	"	"	"	
Xylenes (total)	7.03	1.00	"			11			
Surrogate: 4-BFB (FID)	100 %	57-125	-		"	'n	n	n	
Surrogate: 4-BFB (FID) 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: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

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

	F	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW 5 (B3A0412-13) Water S	ampled: 01/21/03 12:15	Received	l: 01/21/03	16:45					
Gasoline Range Hydrocarbons	493	50.0	ug/l	1	3A29007	01/29/03	01/29/03	NWTPH-Gx/8021B	
Benzene	17.1	0.500	11	11	11	11	11	**	
Toluene	4.43	0.500	59	n	**	11	u	0	
Ethylbenzene	1.37	0.500	**	n	11	. 11	11	**	
Xylenes (total)	52.9	1.00	11	**	11		"	tt	1-06
Surrogate: 4-BFB (FID)	97.7% 5	7-125			"	"	"	"	
Surrogate: 4-BFB (PID)	103 % 6	2-120			"	"	"	н	

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: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP 1 (B3A0412-01) Water Sample	ed: 01/21/03 11:50	Received	: 01/21/03 1	6:45					
Diesel Range Hydrocarbons	14.2 0.807	2.50 0.500	mg/l	10 1	3A23009	01/23/03	01/28/03 01/27/03	NWTPH-Dx "	D-10
Lube Oil Range Hydrocarbons	<u>0.807</u>	50-150			"	"	01/28/03	"	S-01
Surrogate: 2-FBP Surrogate: Octacosane	79.1 %	50-150			"	"	01/27/03	"	
VP 7 (MW 3) (B3A0412-02) Water	Sampled: 01/21	/03 11:05	Received: 0	1/21/03 16:	45				
Diesel Range Hydrocarbons Lube Oil Range Hydrocarbons	0.714 ND	0.250 0.500	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	D-08
Surrogate: 2-FBP Surrogate: Octacosane	95.6 % 98.4 %	50-150 50-150			"	"	"	"	
VP 8 (MW 7) (B3A0412-03) Water	Sampled: 01/21	/03 10:35	Received: 0	1/21/03 16	:45				
Diesel Range Hydrocarbons Lube Oil Range Hydrocarbons	1.12 ND	0.250 0.500	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Surrogate: 2-FBP Surrogate: Octacosane	85.4 % 92.0 %	50-150 50-150			n n	n	"	n n	
•	pled: 01/21/03 11	:30 Receiv	ed: 01/21/0	3 16:45					
Diesel Range Hydrocarbons Lube Oil Range Hydrocarbons	2.54 ND	0.250 0.500	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	D-06
Surrogate: 2-FBP Surrogate: Octacosane	98.4 % 93.4 %	50-150 50-150			"	"	n n	n n	
	mpled: 01/21/03 1	4:00 Rece	ived: 01/21/	03 16:45					
Diesel Range Hydrocarbons Lube Oil Range Hydrocarbons	ND ND	0.250 0.500	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Surrogate: 2-FBP Surrogate: Octacosane	89.4 % 96.6 %	50-150 50-150			n	"	"	"	

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: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 11 (B3A0412-06) Water Sample	ed: 01/21/03 09	:30 Receiv	ed: 01/21/0	3 16:45					
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	tt .	11	11	H .	ft	
Surrogate: 2-FBP	85.2 %	50-150	•		"	#	"	"	
Surrogate: Octacosane	94.0 %	50-150			"	"	"	"	
DB 1 (MW12) (B3A0412-07) Water	Sampled: 01/21	1/03 13:15	Received:	01/21/03 16	:45	, , , , , , , , , , , , , , , , , , , 			
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	**	11	11	11	11	. 11	
Surrogate: 2-FBP	92.8 %	50-150			"	"	"	n	
Surrogate: Octacosane	98.4 %	50-150			"	"	"	"	
DB 8 (MW15) (B3A0412-08) Water	Sampled: 01/2	1/03 10:10	Received:	01/21/03 16	5:45				******
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	H	11	11		**	B	
Surrogate: 2-FBP	91.9 %	50-150			"	"	"	"	
Surrogate: Octacosane	101 %	50-150			"	"	"	"	
DB 9 (MW16) (B3A0412-09) Water	Sampled: 01/2	1/03 09:05	Received:	01/21/03 1	5:45				
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	11	11	**	**	11	11	
Surrogate: 2-FBP	89.4 %	50-150			"	"	"	"	
Surrogate: Octacosane	96.2 %	50-150			"	"	"	"	
DB 10 (MW17) (B3A0412-10) Water	Sampled: 01/	21/03 08:30) Received	: 01/21/03	16:45				
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	Ħ	**	11	n	"	**	
Surrogate: 2-FBP	86.2 %	50-150			"	н -	lt .	"	
Surrogate: Octacosane	96.9 %	50-150			11	"	"	n	

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: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RW 2 (B3A0412-11) Water	Sampled: 01/21/03 12:4	15 Received	: 01/21/03	16:45					
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500	**	H	11	**	"		
Surrogate: 2-FBP	84.4 %	50-150			"	"	"	n	
Surrogate: Octacosane	90.9 %	50-150			n	"	"	<i>II</i>	
RW 4 (B3A0412-12) Water	Sampled: 01/21/03 15:	15 Received	1: 01/21/03	16:45					<u> </u>
Diesel Range Hydrocarbons	2.83	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbons	, ND	0.500	ti .	17	11	11	"		
Surrogate: 2-FBP	84.4 %	50-150			Ħ	"	"	"	
Surrogate: Octacosane	91.6%	50-150			"		"	"	
RW 5 (B3A0412-13) Water	Sampled: 01/21/03 12:	15 Receive	d: 01/21/03	3 16:45					
Diesel Range Hydrocarbons	1.86	0.250	mg/l	1	3A23009	01/23/03	01/27/03	NWTPH-Dx	
Lube Oil Range Hydrocarbon		0.500	11	"	11	ti	"	11	
Surrogate: 2-FBP	95.0 %	50-150			"	n	"	"	
Surrogate: Octacosane	96.9 %	50-150			"	"	"	"	

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: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

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

}		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VP 1 (B3A0412-01) Water Sample	d: 01/21/03 11:50	Received	: 01/21/03 10	6:45					Q-30
Lead	0.0471	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
VP 7 (MW 3) (B3A0412-02) Water	Sampled: 01/21	/03 11:05	Received: 01	/21/03 16:	45				Q-30
Lead	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
VP 8 (MW 7) (B3A0412-03) Water	Sampled: 01/21.	/03 10:35	Received: 01	1/21/03 16:	45				Q-30
Lead	0.00833	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	•
MW 4 (B3A0412-04) Water Samp	led: 01/21/03 11:	30 Receive	ed: 01/21/03	16:45					Q-30
Lead	0.0145	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
MW 10 (B3A0412-05) Water Sam	pled: 01/21/03 14	:00 Recei	ved: 01/21/0	3 16:45	•				Q-30
Lead	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
MW 11 (B3A0412-06) Water Sam	pled: 01/21/03 09	:30 Recei	ved: 01/21/0	3 16:45					Q-30
Lead	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
DB 1 (MW12) (B3A0412-07) Water	Sampled: 01/2	1/03 13:15	Received: (01/21/03 16	5:45				Q-30
Lead	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
DB 8 (MW15) (B3A0412-08) Water	Sampled: 01/2	1/03 10:10	Received: (01/21/03 16	5:45				Q-30
Lead	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
DB 9 (MW16) (B3A0412-09) Water	Sampled: 01/2	1/03 09:05	Received:	01/21/03 10	5:45				Q-30
Lead	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	

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: 386765.80.

Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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

Analyte		Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DB 10 (MW17) (B3A0412-10) Water	Sampled: 01/	21/03 08:30	Received	: 01/21/03 1	6:45				Q-30
Lead	2	ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
RW 2 (B3A0412-11) Water	Sampled	1: 01/21/ <u>03 12:</u>	45 Received	1: 01/21/03	16:45					Q-30
Lead		ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
RW 4 (B3A0412-12) Water	Sampleo	1: 01/21/03 15:	15 Receive	d: 01/21/03	16:45					Q-30
Lead		ND	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	
RW 5 (B3A0412-13) Water	Sample	d: 01/21/03 12:	15 Receive	d: 01/21/03	16:45					Q-30
Lead		0.0133	0.00100	mg/l	1	3A22020	01/22/03	01/24/03	EPA 6020	

North Creek Analytical - Bothell

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Anchorage

Spokane

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Bend

Spike

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

RPD

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

Reporting

Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3A29006:	Prepared 01/29/03	Using EP	A 5030B (P/T)							
Blank (3A29006-BL	K1)										
Gasoline Range Hydrod	arbons	ND	50.0	ug/l							
Benzene		ND	0.500	**							
Toluene		ND	0.500	"							
Ethylbenzene		ND	0.500	11							
Xylenes (total)		ND	1.00	#1							
Surrogate: 4-BFB (FIL))	40.0		"	48.0		83.3	57-125			
Surrogate: 4-BFB (PIL))	42.2		H	48.0		<i>87.9</i>	62-120			
LCS (3A29006-BS1)						. '				
Gasoline Range Hydro	<u> </u>	470	50.0	ug/l	502		93.6	80-120			
Benzene		5.99	0.500	11	6.21		96.5	80-120			
Toluene		32.4	0.500	11	38.1		85.0	80-120			
Ethylbenzene		8.36	0.500	**	8.94		93.5	80-120			
Xylenes (total)		39.5	1.00	ч	44.0		89.8	80-120			
Surrogate: 4-BFB (FIL	D)	47.4		"	48.0		98.8	57-125			
Surrogate: 4-BFB (PII))	40.4		"	48.0		84.2	62-120			
LCS Dup (3A29006	6-BSD1)										
Gasoline Range Hydro	carbons	461	50.0	ug/l	502		91.8	80-120	1.93	25	
Benzene		6.11	0.500	u	6.21		98.4	80-120	1.98	40	
Toluene	,	33.0	0.500	**	38.1		86.6	80-120	1.83	40	
Ethylbenzene		8.44	0.500	**	8.94		94.4	80-120	0.952	40	
Xylenes (total)		40.0	1.00	n	44.0		90.9	80-120	1.26	40	
Surrogate: 4-BFB (FI	D)	45.2		"	48.0		94.2	57-125			
Surrogate: 4-BFB (PI	D)	40.1		"	48.0		83.5	62-120			
Matrix Spike (3A2	9006-MS1)				Source: B3A0412-05						
Gasoline Range Hydro	ocarbons	892	50.0	ug/l	502	416	94.8	70-130			
Benzene		9.20	0.500	**	6.21	3.44	92.8	80-134			
Toluene		33.8	0.500	u	38.1	0.550	87.3	68-114			
Ethylbenzene	•	8.96	0.500	11	8.94	0.519	94.4	72-128			*
Xylenes (total)		42.5	1.00	11	44.0	3.24	89.2	67-125			
Surrogate: 4-BFB (FI	D)	48.1	*****	"	48.0		100	57-125			
Surrogate: 4-BFB (PI		41.0		"	48.0		85.4	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: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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

		Describe		Spike	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3A29006: Prepared 01/2	9/03 Using E	PA 5030B	(P/T)							
Matrix Spike Dup (3A29006-MSD1)					Source: I	B3A0412-	05			
Gasoline Range Hydrocarbons	849	50.0	ug/l	502	416	86.3	70-130	4.94	25	
Benzene	8.83	0.500	**	6.21	3.44	86.8	80-134	4.10	40	
Toluene	33.0	0.500	u	38.1	0.550	85.2	68-114	2.40	40	
Ethylbenzene	9.86	0.500	п	8.94	0.519	104	72-128	9.56	40	
Xylenes (total)	41.0	1.00	**	44.0	3.24	85.8	67-125	3.59	40	
	48.8		n	48.0		102	57-125			
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	41.1		"	48.0		85.6	. 62-120			
Batch 3A29007: Prepared 01/2	29/03 Using l	EPA 5030B	(P/T)					<u></u>		
Blank (3A29007-BLK1)							· · · · · · · · · · · · · · · · · · ·			
Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	11							
Toluene	ND	0.500	11			•				
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	11							
Surrogate: 4-BFB (FID)	45.0		"	48.0		93.8	57-125			
Surrogate: 4-BFB (PID)	49.2		n	48.0		102	62-120			
LCS (3A29007-BS1)								,,,		
Gasoline Range Hydrocarbons	475	50.0	ug/l	502		94.6	80-120			
Benzene	6.00	0.500	"	6.21		96.6	80-120			
Toluene	33.6	0.500	11	38.1		88.2	80-120			
Ethylbenzene	8.78	0.500	n	8.94		98.2	80-120			
Xylenes (total)	41.9	1.00	"	44.0		95.2	80-120			
			"	48.0		102	57-125			
Surrogate: 4-BFB (FID)	48.9			40.0			7			

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: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

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

]	Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3A29007:	Prepared 01/29/03	Using EP	A 5030B (P/T)							
CS Dup (3A29007	-BSD1)										
Gasoline Range Hydro	carbons	482	50.0	ug/l	502		96.0	80-120	1.46	25	
Benzene		6.23	0.500	H	6.21		100	80-120	3.76	40	
Toluene		36.2	0.500	**	38.1		95.0	80-120	7.45	40	
Ethylbenzene		9.06	0.500	11	8.94		101	80-120	3.14	40	
Xylenes (total)		43.3	1.00	tt .	44.0		98.4	80-120	3.29	40	
Surrogate: 4-BFB (FIL	D)	48.6		n	48.0		101	57-125			
Surrogate: 4-BFB (PII		47.3		" .	48.0		98.5	62-120			
Matrix Spike (3A2)	9007-MS1)					Source: 1	B3A0412-	06			
Gasoline Range Hydro		466	50.0	ug/l	502	11.4	90.6	70-130			
Benzene		6.33	0.500	n	6.21	ND	102	80-134			
Toluene		36.7	0.500	n .	38.1	0.282	95.6	68-114			
Ethylbenzene		8.99	0.500	**	8.94	0.0666	99.8	72-128			
Xylenes (total)	•	43.8	1.00	ŧı	44.0	0.327	98.8	67-125			
Surrogate: 4-BFB (FL	 D)	48.4		"	48.0		101	57-125			
Surrogate: 4-BFB (PI		48.0		· n	48.0		100	62-120			
Matrix Spike Dup	(3A29007-MSD1)					Source:	B3A0412	-06			
Gasoline Range Hydro		432	50.0	ug/l	502	11.4	83.8	70-130	7.57	25	
Benzene		5.71	0.500	11	6.21	ND	91.9	80-134	10.3	40	
Toluene		33.4	0.500	н	38.1	0.282	86.9	68-114	9.42	40	
Ethylbenzene		8.04	0.500	u	8.94	0.0666	89.2	72-128	11.2	40	
Xylenes (total)		39.0	1.00	11	44.0	0.327	87.9	67-125	11.6	40	
Surrogate: 4-BFB (FI	ID)	47.9		"	48.0		99.8	57-125			
Surrogate: 4-BFB (P)		44.5		"	48.0		92.7	62-120			
Batch 3B04003:	Prepared 02/04/03	Using E	PA 5030B	(P/T)							
Blank (3B04003-B											
Gasoline Range Hydr		ND	50.0	ug/l							
Benzene		ND	0.500	11							
Toluene		ND	0.500	*1							
Ethylbenzene		ND	0.500	**							
Xylenes (total)		ND	1.00	11							
Surrogate: 4-BFB (F	YID)	42.8		n	48.0		89.2	57-125			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
	/			"	48.0		88.5	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: 386765.80

Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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

<u></u>	Penorting Spi				0		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Batch 3B04003: Prepared 02/04/03	Using EP	A 5030B (P/T)							
LCS (3B04003-BS1)										
Gasoline Range Hydrocarbons	470	50.0	ug/l	502		93.6	80-120			•
Benzene	6.20	0.500	11	6.21		99.8	80-120			
Toluene	34.1	0.500	"	38.1		89.5	80-120			
Ethylbenzene	8.77	0.500	**	8.94		98.1	80-120			
Xylenes (total)	41.4	1.00	11	44.0		94.1	80-120			
Surrogate: 4-BFB (FID)	45.0		11	48.0		93.8	57-125			
Surrogate: 4-BFB (PID)	40.7		"	48.0		84.8	62-120			
LCS Dup (3B04003-BSD1)										
Gasoline Range Hydrocarbons	471	50.0	ug/l	502		93.8	80-120	0.213	25	
Benzene	6.16	0.500	**	6.21		99.2	80-120	0.647	40	
Toluene	33.6	0.500	11	38.1		88.2	80-120	1.48	40	
Ethylbenzene	8.62	0.500	*1	8.94		96.4	80-120	1.73	40	
Xylenes (total)	41.0	1.00	"	44.0		93.2	80-120	0.971	40	
Surrogate: 4-BFB (FID)	45.2		"	48.0		94.2	57-125			
Surrogate: 4-BFB (PID)	40.5		n	48.0		84.4	62-120			
Matrix Spike (3B04003-MS1)					Source:	B3A0646	-01			,,
Gasoline Range Hydrocarbons	514	50.0	ug/l	502	16.6	99.1	70-130			
Benzene	6.10	0.500	"	6.21	ND	98.2	80-134			
Toluene	32.9	0.500		38.1	ND	86.4	68-114			
Ethylbenzene	8.68	0.500	11	8.94	0.0728	96.3	72-128			
Xylenes (total)	40.4	1.00	11	44.0	0.243	91.3	67-125			
	48.0		"	48.0		100	57-125			
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	40.7		"	48.0		84.8	62-120			
·					Source:	B3A0646	5-01			
Matrix Spike Dup (3B04003-MSD1)	460	50.0	ug/l	502	16.6	90.1	70-130	9.16	25	
Gasoline Range Hydrocarbons	469	0.500	ug/I	6.21	ND	99.0	80-134	0.816	40	
Benzene	6.15		u	38.1	ND	87.4	68-114	1.21	40	
Toluene	33.3	0.500	**	8.94	0.0728		72-128	0.810	40	
Ethylbenzene	8.61	0.500		44.0	0.243	91.0	67-125	0.248	40	
Xylenes (total)	40.3	1.00			0.273					
Surrogate: 4-BFB (FID)	45.8		"	48.0		95.4 85.0	57-125 62-120			
Surrogate: 4-BFB (PID)	40.8		"	48.0		85.0	02-120			

North Creek Analytical - Bothell

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



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Bend **Anchorage**

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding Reported:

02/04/03 15:53

Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control North Creek Analytical - Bothell

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3A23009: Prepared 01/23/03	Using El	PA 3520C								
Blank (3A23009-BLK1)									····	
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	Ħ							
Surrogate: 2-FBP	0.297		#	0.320		92.8	50-150			
Surrogate: Octacosane	0.313		"	0.320		97.8	50-150			
LCS (3A23009-BS1)										
Diesel Range Hydrocarbons	1.76	0.250	mg/l	2.00		88.0	45-105			
Surrogate: 2-FBP	0.285		"	0.320		89.1	50-150			
LCS Dup (3A23009-BSD1)										
Diesel Range Hydrocarbons	1.78	0.250	mg/l	2.00		89.0	45-105	1.13	50	
Surrogate: 2-FBP	0.277		11	0.320		86.6	50-150			

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

Project: Chevron #21-1577

Project Number: 386765.80 Project Manager: Deanna Harding

Reported: 02/04/03 15:53

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

	··	1,									
Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3A22020:	Prepared 01/22/03	Using E	PA 3005A								
Blank (3A22020-BL Lead	K1)	ND	0.00100	mg/l							
LCS (3A22020-BS1 Lead)	0.205	0.00100	mg/l	0.200	.,	102	80-120			
LCS Dup (3A22020 Lead	-BSD1)	0.205	0.00100	mg/l	0.200	<u></u>	102	80-120	0.00	20	
	7.504\					Source:	B3A0412	-01			
Matrix Spike (3A22	2020-MS1)	0.153	0.00100	mg/l	0.100	0.0471	106	75-125			
	(a aa aa a NACDA)			•		Source:	B3A0412	-01			
Matrix Spike Dup	(3A22020-MSD1)	0.152	0.00100	mg/l	0.100	0.0471	105	75-125	0.656	20	

North Creek Analytical - Bothell

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6747 Sierra Ct, Suite G Project Number: 386765.80 Dublin CA/USA, 94568 Project Manager: Deanna Harding Reported:

02/04/03 15:53

Notes and Definitions

Project: Chevron #21-1577

	** •
D-06	The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
D-08	Results in the diesel organics range are primarily due to overlap from a gasoline range product.
D-10	The heavy oil range organics present are due to hydrocarbons eluting primarily in the diesel range.
1-06	The analyte concentration may be artificially elevated due to coeluting compounds or components.
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.
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 Garthwat