



# GETTLER-RYAN INC.

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December 28, 2001  
Job #386616

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

**RE: Event of June 17, 2001**  
**Event of August 23, 2001**  
**Event of November 29, 2001**  
Groundwater Monitoring & Sampling Report  
Chevron Service Station #9-1183  
10921 19<sup>th</sup> Avenue S.E.  
Everett, Washington

Dear Mr. Hunter:

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

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in the wells. Static water level data and groundwater elevations are presented in Table 1 and Potentiometric Maps are included as Figures 1, 3 and 5.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). Purge water was treated by filtration through granular activated carbon and was subsequently discharged. The field data sheets are attached. The samples were analyzed by a certified laboratory. Analytical results are presented in Table 1 and Concentration Maps are included as Figures 2, 4 and 6. The chain of custody document and laboratory analytical reports are attached.

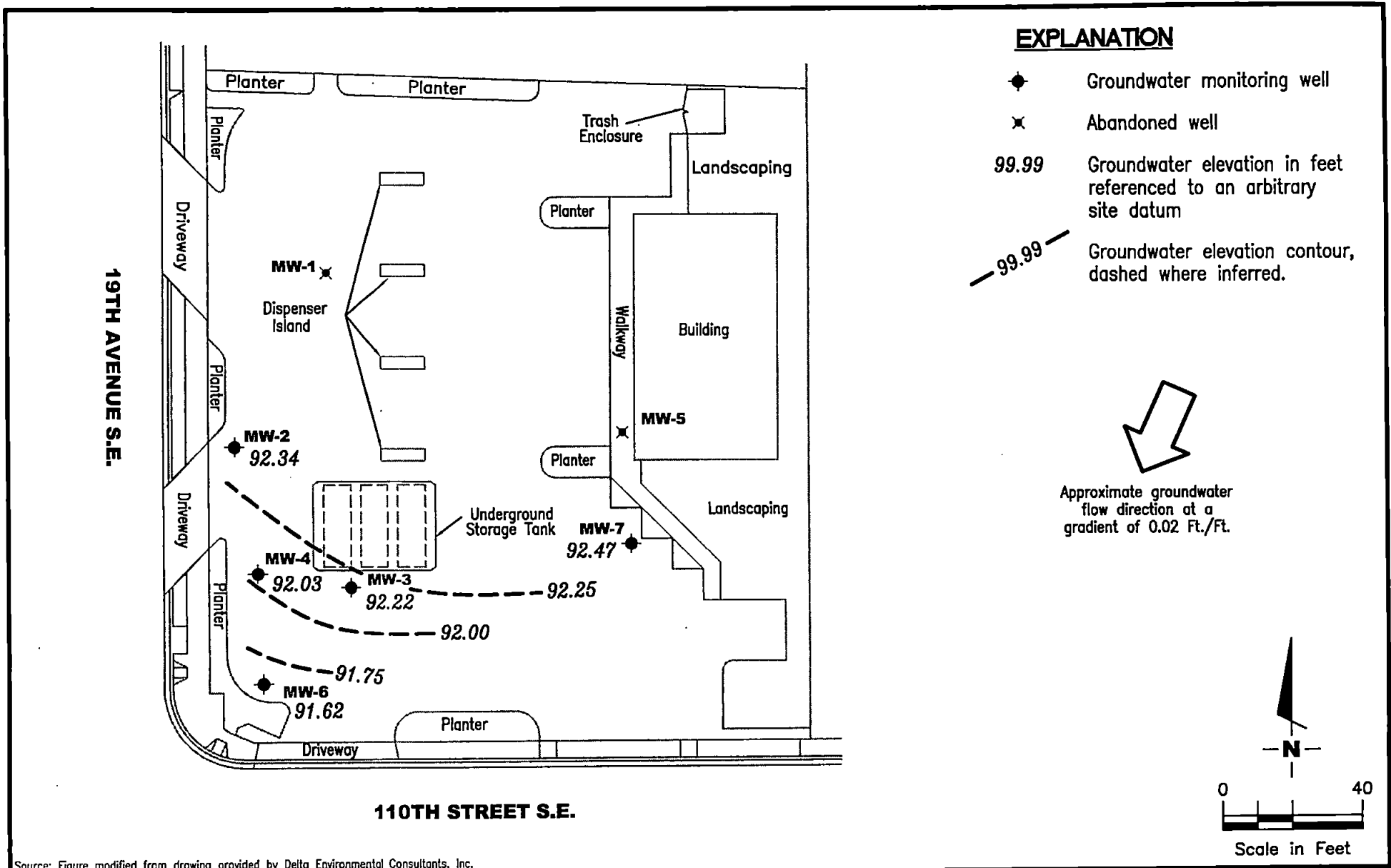
Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Deanna L. Harding  
Project Coordinator

Hagop Kevork  
Professional Engineer

Figure 1: Potentiometric Map - June 17, 2001  
Figure 2: Concentration Map - June 17, 2001  
Figure 3: Potentiometric Map - August 23, 2001  
Figure 4: Concentration Map - August 23, 2001  
Figure 5: Potentiometric Map - November 29, 2001  
Figure 6: Concentration Map - November 29, 2001  
Table 1: Groundwater Monitoring Data and Analytical Results  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



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

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

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-1183  
 10921 19th Avenue S.E.  
 Everett, Washington

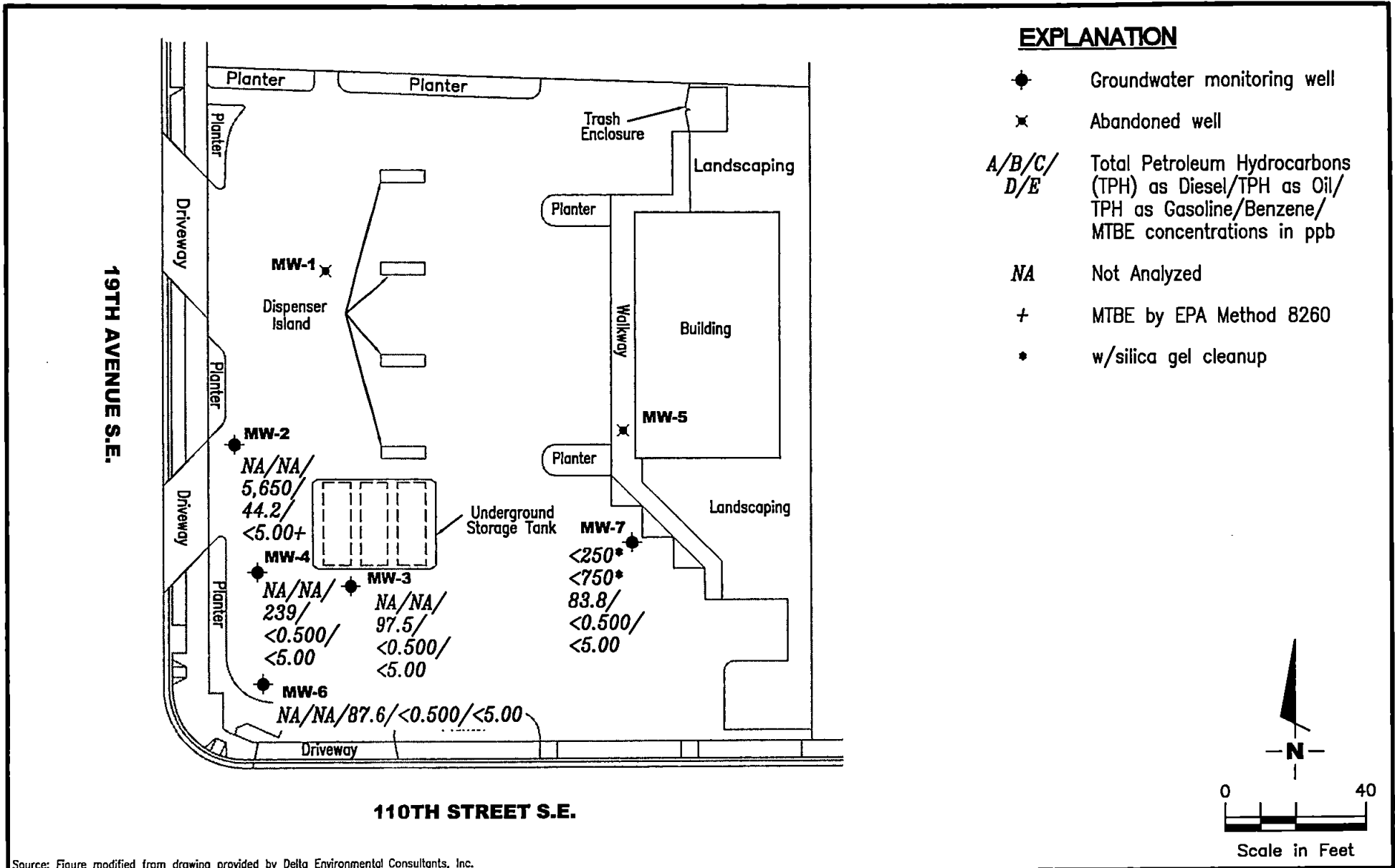
FIGURE  
**1**

PROJECT NUMBER  
**386616**

REVIEWED BY

DATE  
 June 17, 2001

REVISED DATE



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

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

**CONCENTRATION MAP**  
 Chevron Service Station #9-1183  
 10921 19th Avenue S.E.  
 Everett, Washington

FIGURE  
**2**

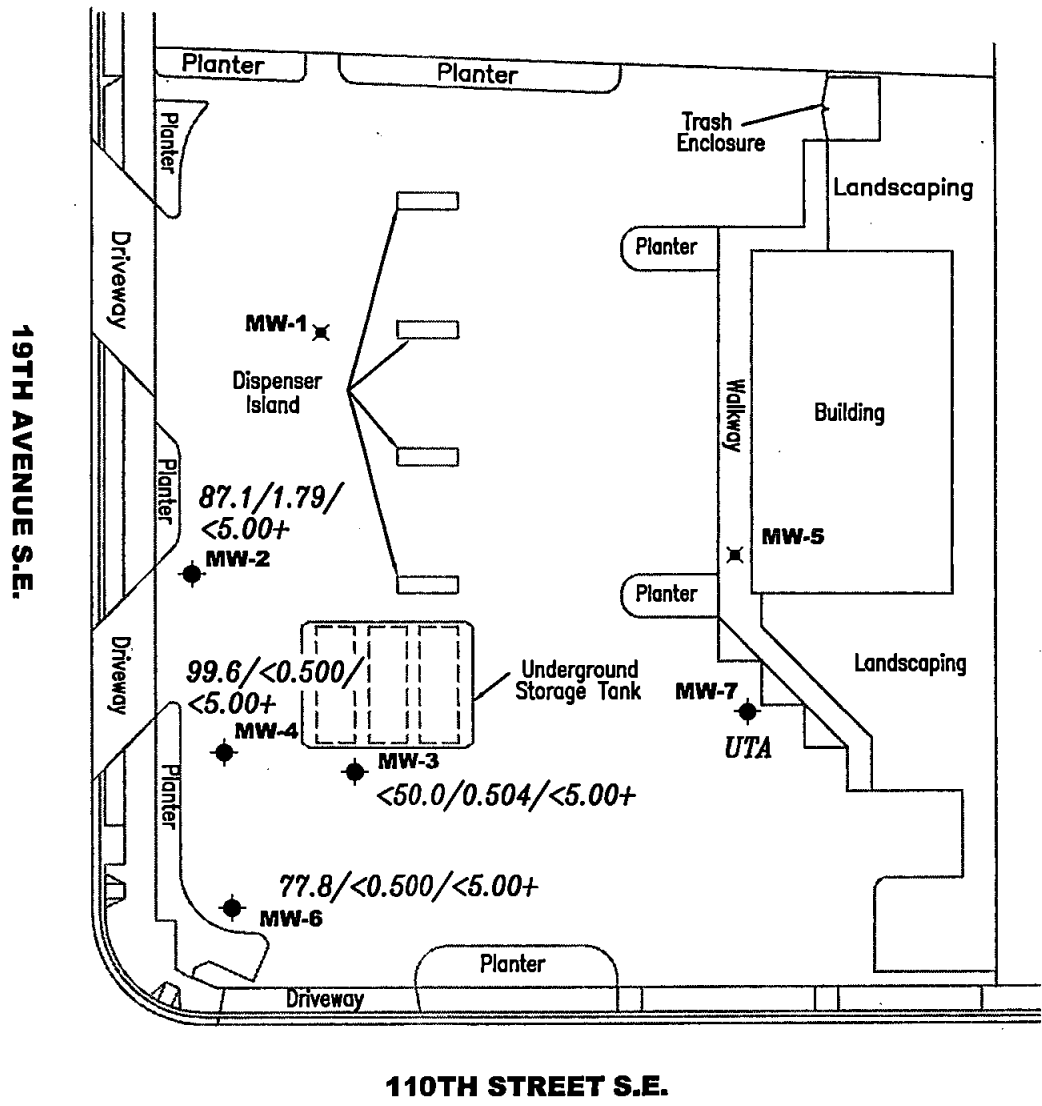
PROJECT NUMBER  
**386616**

REVIEWED BY

DATE  
 June 17, 2001

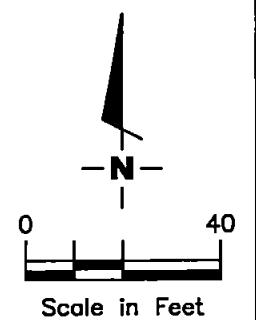
REVISED DATE





**EXPLANATION**

- ◆ Groundwater monitoring well
- ✕ Abandoned well
- A/B/C Total Petroleum Hydrocarbons (TPH) as Gasoline/Benzene/MTBE concentrations in ppb
- + MTBE by EPA Method 8260
- UTA Unable to Access



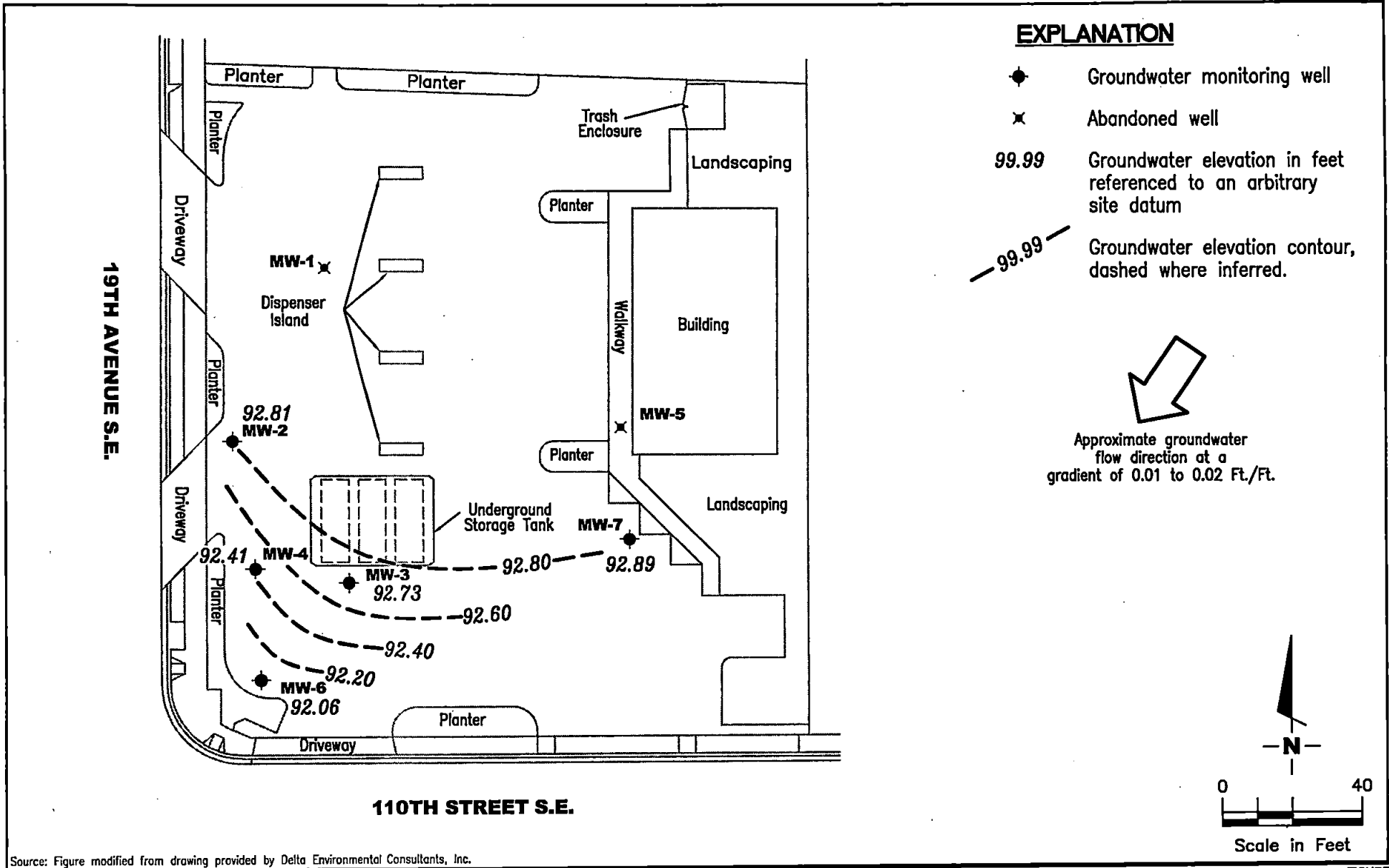
Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

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**CONCENTRATION MAP**  
 Chevron Service Station #9-1183  
 10921 19th Avenue S.E.  
 Everett, Washington

FIGURE  
**4**

PROJECT NUMBER <b>386616</b>	REVIEWED BY	DATE <b>August 23, 2001</b>	REVISED DATE
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Source: Figure modified from drawing provided by Delta Environmental Consultants, Inc.

**GETTLER - RYAN INC.**  
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 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Chevron Service Station #9-1183  
 10921 19th Avenue S.E.  
 Everett, Washington

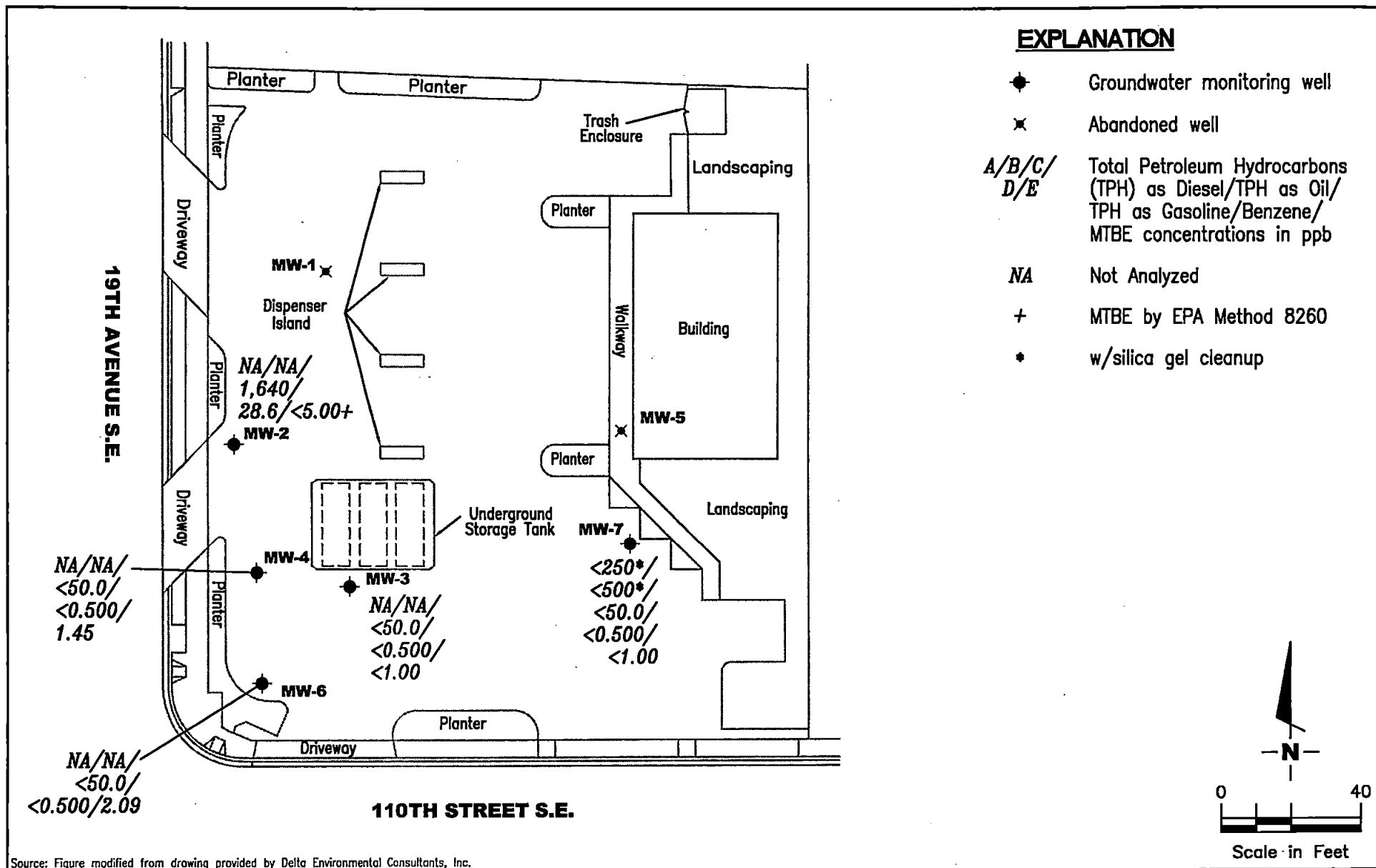
FIGURE  
**5**

PROJECT NUMBER  
**386616**

REVIEWED BY

DATE  
 November 29, 2001

REVISED DATE



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

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

**CONCENTRATION MAP**  
 Chevron Service Station #9-1183  
 10921 19th Avenue S.E.  
 Everett, Washington

FIGURE  
**6**

PROJECT NUMBER  
 386616

REVIEWED BY

DATE  
 November 29, 2001

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1183  
10921 19th Avenue, SE  
Everett, Washington

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
MW-1	ABANDONED											
MW-2												
99.53	09/26/00	--	--	--	--	--	--	--	--	--	--	--
	12/12/00	8.16	91.37	--	--	10,500	41.5	10.3	219	420	ND <sup>1</sup>	0.0106
	03/16/01	7.53	92.00	--	--	10,000	39.1	11.2	135	300	<sup>1</sup> ND/ND <sup>4</sup>	--
	06/17/01	7.19	92.34	--	--	5,650	44.2	5.72	78.6	185	11.7/<5.00 <sup>4</sup>	--
	08/23/01	9.45	90.08	--	--	87.1	1.79	<0.500	0.763	<1.00	<1.00/<5.00 <sup>4</sup>	--
	11/29/01	6.72	92.81	--	--	1,640	28.6	1.06	39.0	45.9	<1.00/<5.00 <sup>4</sup>	--
MW-3												
97.79	09/26/00	--	--	--	--	--	--	--	--	--	--	--
	12/12/00	6.49	91.30	--	--	ND	ND	ND	ND	ND	ND	0.00172
	03/16/01	5.85	91.94	--	--	ND	ND	ND	ND	ND	ND	--
	06/17/01	5.57	92.22	--	--	97.5	<0.500	<0.500	0.506	1.00	<5.00	--
	08/23/01	7.34	90.45	--	--	<50.0	0.504	<0.500	<0.500	1.07	1.26/<5.00 <sup>4</sup>	--
	11/29/01	5.06	92.73	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
MW-4												
98.07	09/26/00	--	--	--	--	--	--	--	--	--	--	--
	12/12/00	6.91	91.16	--	--	609	ND	ND	ND	2.72	ND	ND
	03/16/01	6.35	91.72	--	--	351	ND	ND	ND	1.40	1.01/ND <sup>3</sup>	--
	06/17/01	6.04	92.03	--	--	239	<0.500	0.762	<0.500	3.99	<5.00	--
	08/23/01	7.94	90.13	--	--	99.6	<0.500	<0.500	<0.500	<1.00	1.16/<5.00 <sup>4</sup>	--
	11/29/01	5.66	92.41	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	1.45	--
MW-5	ABANDONED											

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1183  
10921 19th Avenue, SE  
Everett, Washington

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-O (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
<b>MW-6</b>												
96.52	09/26/00	6.50	90.02	--	--	--	--	--	--	--	--	--
	12/12/00	5.58	90.94	--	--	363	0.543	3.66	ND	8.88	ND	0.00357
	03/16/01	5.08	91.44	--	--	233	ND	1.75	ND	4.67	3.05/ND <sup>3</sup>	--
	06/17/01	4.90	91.62	--	--	87.6	<0.500	2.85	<0.500	2.01	<5.00	--
	08/23/01	6.58	89.94	--	--	77.8	<0.500	0.683	<0.500	1.52	3.70/<5.00 <sup>4</sup>	--
	11/29/01	4.46	92.06	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	2.09	--
<b>MW-7</b>												
97.75	09/26/00	6.40	91.35	--	--	--	--	--	--	--	--	--
	12/12/00	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--
	03/16/01	5.61	92.14	ND <sup>2</sup>	ND <sup>2</sup>	ND	ND	ND	ND	ND	ND	--
	06/17/01	5.28	92.47	<250 <sup>2</sup>	<750 <sup>2</sup>	83.8	<0.500	<0.500	<0.500	<1.00	<5.00	--
	08/23/01	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--
	11/29/01	4.86	92.89	<250 <sup>2</sup>	<500 <sup>2</sup>	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
<b>Trip Blank</b>												
TB-LB	12/12/00	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	03/16/01	--	--	--	--	ND	ND	ND	ND	ND	ND	--
	06/17/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<5.00	--
	08/23/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--
	11/29/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<1.00	<1.00	--

	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. Lead
Standard Laboratory Reporting Limits:	250	750	50.0	0.500	0.500	0.500	1.00	--	0.00100
MTCA Method A Cleanup Levels:	1,000	1,000	1,000	5.0	40	30	20	--	--
Current Method:	WTPH-D + Ext.			NWTPH-G and EPA 8021B					

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Chevron Service Station #9-1183  
10921 19th Avenue, SE  
Everett, Washington

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**EXPLANATIONS:**

Groundwater monitoring data prior to December 12, 2000, were provided by Delta Environmental Consultants.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-O = Total Petroleum Hydrocarbons as Oil

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

D. Lead = Dissolved Lead

(ppb) = Parts per billion

(ppm) = Parts per million

ND = Not Detected

-- = Not Measured/Not Analyzed

MTCA = Model Toxics Control Act Cleanup Regulations  
[WAC 173-340-720(2)(a)(I), as amended 12/93].

\* TOC elevations have been provided by Delta Environmental Consultants, Inc. referenced to an assumed datum in feet.

<sup>1</sup> Detection limit raised. Refer to analytical reports.

<sup>2</sup> TPH-D and TPH-O with silica gel cleanup.

<sup>3</sup> MTBE by EPA Method 8260 was analyzed outside of the recommended hold time.

<sup>4</sup> MTBE by EPA Method 8260.

## 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, static water level measurements are collected with the interface probe and are also recorded in the field notes.

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

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

***CHEVRON SERVICE STATION #9-1183***  
***Everett, Washington***

***MONITORING & SAMPLING***  
***EVENT OF JUNE 17, 2001***

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183 Job#: 386616  
 Address: 10921 19th Avenue SE Date: 6-17-01  
 City: Everett, Washington Sampler: BWN

Well ID MW-2 Well Condition: ok  
 Well Diameter 2 in. Hydrocarbon Amount Bailed  
 Thickness: 0 Ft. (product/water): 0 (gal.)  
 Total Depth 16.45 ft.  
 Depth to Water 7.19 ft.

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

9.26 x VF 1.17 = 1.57 x 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

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

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

Starting Time: 12:55 Weather Conditions: pt. sunny  
 Sampling Time: 13:15 Water Color: gray Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:00</u>	<u>1.5</u>	<u>6.68</u>	<u>337</u>	<u>16.4</u>			
<u>13:05</u>	<u>3</u>	<u>6.61</u>	<u>331</u>	<u>16.0</u>			
<u>13:10</u>	<u>4.5</u>	<u>6.59</u>	<u>329</u>	<u>15.8</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>5 NOAVIAL</u>	<u>Y</u>	<u>RC</u>	<u>North Creek</u>	<u>Gas/BTEX/MTBE by 8060</u>

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

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 6-17-01  
 Sampler: BWN

Well ID MW-3  
 Well Diameter 2 in.  
 Total Depth 11.70 ft.  
 Depth to Water 5.57 ft.

Well Condition: Casing slightly bent

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

6.13 X VF 117 = 1.04 X 3 (case volume) = Estimated Purge Volume: 3 (gal.)

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

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

Starting Time: 11:30  
 Sampling Time: 11:45  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

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

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:33</u>	<u>1</u>	<u>7.01</u>	<u>284</u>	<u>17.9</u>			
<u>11:36</u>	<u>2</u>	<u>6.93</u>	<u>280</u>	<u>17.6</u>			
<u>11:39</u>	<u>3</u>	<u>6.90</u>	<u>272</u>	<u>17.3</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 VOANTAL</u>	<u>Y</u>	<u>HCl</u>	<u>North Creek</u>	<u>Gas/BTEX/MTBE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183 Job#: 386616  
 Address: 10921 19<sup>th</sup> Avenue SE Date: 6-17-01  
 City: Everett, Washington Sampler: BWN

Well ID MW-4 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)  
 Total Depth 12.50 ft. Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 Depth to Water 6.04 ft. 6" = 1.50 12" = 5.80  
6.46 x VF .17 = 1.1 X 3 (case volume) = Estimated Purge Volume: 3 (gal.)

Purge Equipment: Disposable Bailer Sampling Equipment: Disposable Bailer  
 Bailer Stack Suction Grundfos Other: \_\_\_\_\_  
 Bailer Pressure Bailer Grab Sample Other: \_\_\_\_\_

Starting Time: 12:30 Weather Conditions: pt. sunny  
 Sampling Time: 12:45 Water Color: gray Odor: slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:33</u>	<u>1</u>	<u>6.70</u>	<u>375</u>	<u>17.9</u>			
<u>12:36</u>	<u>2</u>	<u>6.65</u>	<u>368</u>	<u>17.5</u>			
<u>12:39</u>	<u>3</u>	<u>6.63</u>	<u>361</u>	<u>17.3</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 VANDEK</u>	<u>Y</u>	<u>ACI</u>	<u>North Creek</u>	<u>GAS/BTEX/MRE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19th Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 6-17-07  
 Sampler: BWN

Well ID MW-6  
 Well Diameter 2 in.  
 Total Depth 15.50 ft.  
 Depth to Water 4.90 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)  

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

10.6 x VF 1.7 = 1.8 x 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

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

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

Starting Time: 12:00  
 Sampling Time: 12:20  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

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

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>12:05</u>	<u>1.8</u>	<u>6.64</u>	<u>424</u>	<u>20.1</u>			
<u>12:10</u>	<u>3.6</u>	<u>6.59</u>	<u>417</u>	<u>19.6</u>			
<u>12:15</u>	<u>5.5</u>	<u>6.57</u>	<u>413</u>	<u>19.4</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 VOAVIAL</u>	<u>Y</u>	<u>HCl</u>	<u>North Creek</u>	<u>GRS/BTEX/MPBE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183 Job#: 386616  
 Address: 10921 19th Avenue SE Date: 6-17-01  
 City: Everett, Washington Sampler: BWN

Well ID MW-7 Well Condition: ok  
 Well Diameter 2 in. Hydrocarbon Thickness: ∅ Ft. Amount Bailed (product/water): ∅ (gal.)  
 Total Depth 15.50 ft.  
 Depth to Water 5.28 ft.

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

10.22 X VF 1.7 = 1.7 X 3 (case volume) = Estimated Purge Volume: 5 (gal.)

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

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

Starting Time: 11:00 Weather Conditions: pt. sunny  
 Sampling Time: 11:20 Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:05</u>	<u>1.7</u>	<u>7.01</u>	<u>349</u>	<u>16.4</u>			
<u>11:10</u>	<u>3.4</u>	<u>6.96</u>	<u>336</u>	<u>16.1</u>			
<u>11:15</u>	<u>5</u>	<u>6.92</u>	<u>332</u>	<u>16.0</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3 VOYAGE L</u>	<u>Y</u>	<u>HZ</u>	<u>North Creek</u>	<u>Gas/BTEX/MTBE</u>
<u>MW7</u>	<u>1 Amber L</u>	<u>Y</u>	<u>NP</u>	<u>↓</u>	<u>TPH(D)+Ext w/SG</u>

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





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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 07/03/01 17:06
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	B1F0419-01	Water	06/17/01 12:00	06/18/01 14:15
MW-2	B1F0419-02	Water	06/17/01 13:15	06/18/01 14:15
MW-3	B1F0419-03	Water	06/17/01 11:45	06/18/01 14:15
MW-4	B1F0419-04	Water	06/17/01 12:45	06/18/01 14:15
MW-6	B1F0419-05	Water	06/17/01 12:20	06/18/01 14:15
MW-7	B1F0419-06	Water	06/17/01 11:20	06/18/01 14:15

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
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 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with Silica Gel Clean-up  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-7 (B1F0419-06) Water</b> <b>Sampled: 06/17/01 11:20</b> <b>Received: 06/18/01 14:15</b>									
Diesel Range Hydrocarbons	ND	0.250	mg/l	1	1F23016	06/23/01	06/30/01	WTPH-D	
Heavy Oil Range Hydrocarbons	ND	0.750	"	"	"	"	"	"	
Surrogate: 2-FBP	90.1 %	50-150			"	"	"	"	
Surrogate: Octacosane	89.8 %	50-150			"	"	"	"	

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 6747 Sierra Court Suite G  
 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (B1F0419-02) Water</b> <b>Sampled: 06/17/01 13:15</b> <b>Received: 06/18/01 14:15</b>									
Methyl tert-butyl ether	ND	5.00	ug/l	1	1F22024	06/22/01	06/22/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	99.0 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	100 %	75-124			"	"	"	"	
Surrogate: 4-BFB	100 %	77-120			"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
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Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

**Gasoline Hydrocarbons by NWTPH-Gx and BTEX,M by EPA Method 8021B**  
**North Creek Analytical - Spokane**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>TB-LB (B1F0419-01) Water</b> Sampled: 06/17/01 12:00 Received: 06/18/01 14:15										
GRO as Gasoline	ND	50.0		ug/l	1	1060229	06/29/01	06/29/01	NWTPH-Gx/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.4 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	108 %	56-142				"	"	"	"	
<b>MW-2 (B1F0419-02) Water</b> Sampled: 06/17/01 13:15 Received: 06/18/01 14:15										
GRO as Gasoline	5650	50.0		ug/l	1	1060229	06/29/01	06/29/01	NWTPH-Gx/8021B	
Benzene	44.2	0.500		"	"	"	"	"	"	
Toluene	5.72	0.500		"	"	"	"	"	"	
Ethylbenzene	78.6	0.500		"	"	"	"	"	"	
Xylenes (total)	185	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	11.7	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	358 %	50-150				"	"	"	"	S-02
Surrogate: 4-BFB (PID)	202 %	56-142				"	"	"	"	S-02
<b>MW-3 (B1F0419-03) Water</b> Sampled: 06/17/01 11:45 Received: 06/18/01 14:15										
GRO as Gasoline	97.5	50.0		ug/l	1	1060229	06/29/01	06/29/01	NWTPH-Gx/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	0.506	0.500		"	"	"	"	"	"	
Xylenes (total)	1.00	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	85.2 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	113 %	56-142				"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 07/03/01 17:06
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**Gasoline Hydrocarbons by NWTPH-Gx and BTEX,M by EPA Method 8021B**  
**North Creek Analytical - Spokane**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>MW-4 (B1F0419-04) Water</b> <b>Sampled: 06/17/01 12:45</b> <b>Received: 06/18/01 14:15</b>										
GRO as Gasoline	239	50.0		ug/l	1	1060229	06/29/01	06/29/01	NWTPH-Gx/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	0.762	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	3.99	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	104 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	121 %	56-142				"	"	"	"	
<b>MW-6 (B1F0419-05) Water</b> <b>Sampled: 06/17/01 12:20</b> <b>Received: 06/18/01 14:15</b>										
GRO as Gasoline	87.6	50.0		ug/l	1	1060229	06/29/01	06/29/01	NWTPH-Gx/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	2.85	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	2.01	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	84.8 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	116 %	56-142				"	"	"	"	
<b>MW-7 (B1F0419-06) Water</b> <b>Sampled: 06/17/01 11:20</b> <b>Received: 06/18/01 14:15</b>										
GRO as Gasoline	83.8	50.0		ug/l	1	1060229	06/29/01	06/29/01	NWTPH-Gx/8021B	
Benzene	ND	0.500		"	"	"	"	"	"	
Toluene	ND	0.500		"	"	"	"	"	"	
Ethylbenzene	ND	0.500		"	"	"	"	"	"	
Xylenes (total)	ND	1.00		"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.00		"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	79.6 %	50-150				"	"	"	"	
Surrogate: 4-BFB (PID)	110 %	56-142				"	"	"	"	

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
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 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

**Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with 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
<b>Batch 1F23016: Prepared 06/23/01 Using EPA 3520C/600 Series</b>										
<b>Blank (1F23016-BLK1)</b>										
Diesel Range Hydrocarbons	ND	0.250	mg/l							
Heavy Oil Range Hydrocarbons	ND	0.750	"							
Surrogate: 2-FBP	0.271		"	0.320		84.7	50-150			
Surrogate: Octacosane	0.268		"	0.320		83.8	50-150			
<b>LCS (1F23016-BS1)</b>										
Diesel Range Hydrocarbons	1.80	0.250	mg/l	2.00		90.0	50-150			
Surrogate: 2-FBP	0.310		"	0.320		96.9	50-150			
<b>LCS Dup (1F23016-BSD1)</b>										
Diesel Range Hydrocarbons	1.60	0.250	mg/l	2.00		80.0	50-150	11.8	50	
Surrogate: 2-FBP	0.266		"	0.320		83.1	50-150			

North Creek Analytical - Bothell

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Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1F22024: Prepared 06/22/01 Using EPA 5030B [P/T]</b>										
<b>Blank (1F22024-BLK1)</b>										
Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	73-137			
Surrogate: Toluene-d8	20.5		"	20.0		102	75-124			
Surrogate: 4-BFB	19.9		"	20.0		99.5	77-120			
<b>LCS (1F22024-BS1)</b>										
Methyl tert-butyl ether	8.04	5.00	ug/l	10.0		80.4	70-130			
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	73-137			
Surrogate: Toluene-d8	20.2		"	20.0		101	75-124			
Surrogate: 4-BFB	19.8		"	20.0		99.0	77-120			
<b>LCS Dup (1F22024-BSD1)</b>										
Methyl tert-butyl ether	8.67	5.00	ug/l	10.0		86.7	70-130	7.54	20	
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	73-137			
Surrogate: Toluene-d8	20.7		"	20.0		104	75-124			
Surrogate: 4-BFB	21.0		"	20.0		105	77-120			
<b>Matrix Spike (1F22024-MS1) Source: B1F0416-03</b>										
Methyl tert-butyl ether	7.57	5.00	ug/l	10.0	ND	75.7	70-130			
Surrogate: 1,2-DCA-d4	18.3		"	20.0		91.5	73-137			
Surrogate: Toluene-d8	20.0		"	20.0		100	75-124			
Surrogate: 4-BFB	19.9		"	20.0		99.5	77-120			
<b>Matrix Spike Dup (1F22024-MSD1) Source: B1F0416-03</b>										
Methyl tert-butyl ether	8.97	5.00	ug/l	10.0	ND	89.7	70-130	16.9	20	
Surrogate: 1,2-DCA-d4	18.5		"	20.0		92.5	73-137			
Surrogate: Toluene-d8	20.0		"	20.0		100	75-124			
Surrogate: 4-BFB	20.6		"	20.0		103	77-120			

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 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

**Gasoline Hydrocarbons by NWTPH-Gx and BTEX,M by EPA Method 8021B - Quality Control  
 North Creek Analytical - Spokane**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1060229: Prepared 06/29/01 Using EPA 5030B**

**Blank (1060229-BLK1)**

GRO as Gasoline	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Methyl tert-butyl ether	ND	5.00	"							
Surrogate: 4-BFB (FID)	23.6		"	25.0		94.4	50-150			
Surrogate: 4-BFB (PID)	28.7		"	25.0		115	56-142			

**LCS (1060229-BS1)**

GRO as Gasoline	960	50.0	ug/l				85-115			
Surrogate: 4-BFB (FID)	31.5		"	25.0		126	50-150			

**LCS (1060229-BS2)**

Benzene	9.44	0.500	ug/l	10.0		94.4	85-115			
Toluene	9.12	0.500	"	10.0		91.2	85-115			
Ethylbenzene	10.5	0.500	"	10.0		105	85-115			
Xylenes (total)	31.3	1.00	"	30.0		104	85-115			
Methyl tert-butyl ether	10.0	5.00	"	10.0		100	70-120			
Surrogate: 4-BFB (PID)	27.5		"	25.0		110	56-142			

**Duplicate (1060229-DUP1)**

**Source: S106110-04**

GRO as Gasoline	69.3	50.0	ug/l		ND				50	
Benzene	ND	0.500	"		ND				50	
Toluene	ND	0.500	"		ND				50	
Ethylbenzene	0.561	0.500	"		ND				50	
Xylenes (total)	1.17	1.00	"		ND				50	
Methyl tert-butyl ether	ND	5.00	"		ND				50	
Surrogate: 4-BFB (FID)	24.8		"	25.0		99.2	50-150			
Surrogate: 4-BFB (PID)	27.5		"	25.0		110	56-142			

North Creek Analytical - Bothell

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Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 07/03/01 17:06

**Gasoline Hydrocarbons by NWTPH-Gx and BTEX,M by EPA Method 8021B - Quality Control**  
**North Creek Analytical - Spokane**

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

Batch 1060229: Prepared 06/29/01 Using EPA 5030B

Duplicate (1060229-DUP2)				Source: S106105-02						
GRO as Gasoline	177	50.0	ug/l		192			8.13	50	
Benzene	24.2	0.500	"		23.5			2.94	50	
Toluene	5.10	0.500	"		6.46			23.5	50	
Ethylbenzene	1.69	0.500	"		2.49			38.3	50	
Xylenes (total)	2.11	1.00	"		5.80			93.3	50	Q-06
Methyl tert-butyl ether	ND	5.00	"		ND				50	
Surrogate: 4-BFB (FID)	25.5		"	25.0		102	50-150			
Surrogate: 4-BFB (PID)	27.4		"	25.0		110	56-142			

Matrix Spike (1060229-MS1)				Source: S106110-04						
GRO as Gasoline	890	50.0	ug/l		ND			70-130		
Surrogate: 4-BFB (FID)	29.6		"	25.0		118	50-150			

Matrix Spike (1060229-MS2)				Source: S106110-04						
Benzene	7.94	0.500	ug/l	10.0	ND	79.4	54-143			
Toluene	8.02	0.500	"	10.0	ND	80.2	48-145			
Ethylbenzene	7.89	0.500	"	10.0	ND	78.9	49-142			
Xylenes (total)	23.6	1.00	"	30.0	ND	78.7	55-140			
Methyl tert-butyl ether	9.27	5.00	"	10.0	ND	92.7	54-143			
Surrogate: 4-BFB (PID)	27.3		"	25.0		109	56-142			

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 07/03/01 17:06
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**Notes and Definitions**

- Q-06 RPD values are not controlled at sample concentrations less than 5 times the reporting limit.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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

North Creek Analytical Bothell

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Environmental Laboratory Network

***CHEVRON SERVICE STATION #9-1183***  
***Everett, Washington***

***MONITORING & SAMPLING***  
***EVENT OF AUGUST 23, 2001***

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 8-23-01  
 Sampler: BWN

Well ID MW-2 Well Condition: ok  
 Well Diameter 2 in. Hydrocarbon Ø Amount Bailed Ø  
 Thickness: \_\_\_\_\_ Ft. (product/water): \_\_\_\_\_ (gal.)  
 Total Depth 16.45 ft.  
 Depth to Water 9.45 ft.

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

7.00 X VF .17 = 1.19 X 3 (case volume) = Estimated Purge Volume: 3.5 (gal.)

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

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

Starting Time: 1435 Weather Conditions: Pouring Rain  
 Sampling Time: 1455 Water Color: gray Odor: yes  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ hos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1439</u>	<u>1.2</u>	<u>6.70</u>	<u>231</u>	<u>16.3</u>			
<u>1443</u>	<u>2.4</u>	<u>6.81</u>	<u>230</u>	<u>16.0</u>			
<u>1447</u>	<u>3.5</u>	<u>6.76</u>	<u>226</u>	<u>15.9</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>4 VOAVIAL</u>	<u>Y</u>	<u>MU</u>	<u>North Creek</u>	<u>Gas/BTEX/mtbe</u> <u>MTBE by 8260</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 8-23-07  
 Sampler: BWN

Well ID MW-3 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)  
 Total Depth 11.70 ft.  
 Depth to Water 7.34 ft.

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

4.36 X VF .17 = .74 X 3 (case volume) = Estimated Purge Volume: 2 (gal.)

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

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

Starting Time: 1330 Weather Conditions: cloudy  
 Sampling Time: 1345 Water Color: clear Odor: no  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1333</u>	<u>.7</u>	<u>6.85</u>	<u>238</u>	<u>17.4</u>			
<u>1336</u>	<u>1.4</u>	<u>6.79</u>	<u>235</u>	<u>17.3</u>			
<u>1339</u>	<u>2</u>	<u>6.76</u>	<u>231</u>	<u>17.0</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 VOA VIAL</u>	<u>Y</u>	<u>HCL</u>	<u>North Creek</u>	<u>GAS/BTEX/mfoc</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183 Job#: 386616  
 Address: 10921 19th Avenue SE Date: 8-23-01  
 City: Everett, Washington Sampler: BWN

Well ID MW-4 Well Condition: OK  
 Well Diameter 2 in. Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)  
 Total Depth 12.50 ft.  
 Depth to Water 7.94 ft.  

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

4.56 X VF .17 = .77 X 3 (case volume) = Estimated Purge Volume: 2 (gal.)

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1400 Weather Conditions: Rain  
 Sampling Time: 1415 Water Color: clear Odor: slight  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? no If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1403</u>	<u>.7</u>	<u>6.79</u>	<u>274</u>	<u>17.5</u>			
<u>1406</u>	<u>1.4</u>	<u>6.72</u>	<u>270</u>	<u>17.3</u>			
<u>1409</u>	<u>2</u>	<u>6.68</u>	<u>267</u>	<u>17.2</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 JOURNAL</u>	<u>Y</u>	<u>PCU</u>	<u>North Creek</u>	<u>Gas/BTEX/mike</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 8-23-01  
 Sampler: BWN

Well ID MW-6  
 Well Diameter 2 in.  
 Total Depth 14.90 ft.  
 Depth to Water 6.58 ft.

Well Condition: ok

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

8.32 x VF 0.17 = 1.4 x 3 (case volume) = Estimated Purge Volume: 4 (gal.)

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

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

Starting Time: 1300  
 Sampling Time: 1320  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

Weather Conditions: cloudy  
 Water Color: gray Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1304</u>	<u>1.3</u>	<u>6.83</u>	<u>236</u>	<u>17.1</u>			
<u>1308</u>	<u>2.6</u>	<u>6.79</u>	<u>233</u>	<u>17.0</u>			
<u>1312</u>	<u>4</u>	<u>6.76</u>	<u>229</u>	<u>16.6</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 WOAVAL</u>	<u>Y</u>	<u>ACI</u>	<u>North Creek</u>	<u>GUS/BTEX/MTBE</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 8-23-01  
 Sampler: BWN

Well ID MW-7  
 Well Diameter 2 in.  
 Total Depth 15.50 ft.  
 Depth to Water UTA ft.

Well Condition: Unable to access

Hydrocarbon Thickness: <u>Ø</u>	Ft.	Amount Bailed (product/water): <u>Ø</u>	(gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

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

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

Starting Time: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_

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

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-		Y		North Creek	

COMMENTS: Unable to access car parked over well

Chevron Products Co.  
P.O. BOX 6004  
San Ramon, CA 94583  
FAX (925)842-8370

Chevron Facility Number #9-1183  
Facility Address 10921 19TH AVE. SE. EVERETT, WA  
Consultant Project Number 386616  
Consultant Name Gettler-Ryan Inc  
Address 6747 Sierra Court, Suite G, Dublin, CA 94568  
Project Contact (Name) Deanna L. Harding  
(Phone) 925-551-7555 (Fax Number) 925-551-7899

Chevron Contact (Name) MR. BRETT HUNTER  
(Phone) 925-842-8695  
Laboratory Name North Creek Analytical  
Laboratory Service Order \_\_\_\_\_  
Laboratory Service Code \_\_\_\_\_  
Samples Collected by (Name) Ben Newton  
Signature Ben Newton

Sample Number	Number of Containers	Matrix		Sample Preservation	Date/Time	State Method: <input type="checkbox"/> CA <input type="checkbox"/> OR <input checked="" type="checkbox"/> WA <input type="checkbox"/> NW Series <input type="checkbox"/> CO <input type="checkbox"/> UT															Remarks	
		S = Soil	A = Air			BTEX/MTBE+TPH GAS (8020 + 8015)	TPH + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd, Cr, Pb, Zn, Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HClD	TPH-D Extended w/ Silica gel	Made by 8260	Lab Sample No.		
TB LB	1	W	HL		8-23-01	X																01 RUN Mtb
MW 2	4				1455	X																02 by 8260
MW 3	3				1345	X																03 ON ALL
MW 4	3				1415	X																04 8020
MW 6	3				1320	X																05 Hits

Relinquished By (Signature) <u>Ben Newton</u>	Organization <u>GL Inc</u>	Date/Time <u>8-23-01 1515</u>	Received By (Signature)	Organization	Date/Time	Iced Y/N	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days As Contracted <u>W/A C O</u>
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Kevin King</u>	Organization <u>NCA</u>	Date/Time <u>8/23/01 15:15</u>	Iced Y/N	



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Court Suite G  
 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 09/07/01 09:19

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB LB	B1H0584-01	Water	08/23/01 12:00	08/23/01 15:15
MW 2	B1H0584-02	Water	08/23/01 14:55	08/23/01 15:15
MW 3	B1H0584-03	Water	08/23/01 13:45	08/23/01 15:15
MW 4	B1H0584-04	Water	08/23/01 14:15	08/23/01 15:15
MW 6	B1H0584-05	Water	08/23/01 13:20	08/23/01 15:15

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 09/07/01 09:19
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**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TB LB (B1H0584-01) Water    Sampled: 08/23/01 12:00    Received: 08/23/01 15:15</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1H28012	08/28/01	08/28/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	90.0 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	97.9 %	62-125			"	"	"	"	
<b>MW 2 (B1H0584-02) Water    Sampled: 08/23/01 14:55    Received: 08/23/01 15:15</b>									
Gasoline Range Hydrocarbons	87.1	50.0	ug/l	1	1H28012	08/28/01	08/28/01	NWTPH-G/8021B	
Benzene	1.79	0.500	"	"	"	"	"	"	1-06
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	0.763	0.500	"	"	"	"	"	"	1-06
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	93.3 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	99.6 %	62-125			"	"	"	"	
<b>MW 3 (B1H0584-03) Water    Sampled: 08/23/01 13:45    Received: 08/23/01 15:15</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1H28012	08/28/01	08/28/01	NWTPH-G/8021B	
Benzene	0.504	0.500	"	"	"	"	"	"	1-06
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.07	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	1.26	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	89.6 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	97.1 %	62-125			"	"	"	"	

North Creek Analytical - Bothell

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**Environmental Laboratory Network**



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Court Suite G  
 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 09/07/01 09:19

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 4 (B1H0584-04) Water</b> Sampled: 08/23/01 14:15 Received: 08/23/01 15:15									
Gasoline Range Hydrocarbons	99.6	50.0	ug/l	1	1H28012	08/28/01	08/28/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	1.16	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	94.4 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	62-125			"	"	"	"	
<b>MW 6 (B1H0584-05) Water</b> Sampled: 08/23/01 13:20 Received: 08/23/01 15:15									
Gasoline Range Hydrocarbons	77.8	50.0	ug/l	1	1H28012	08/28/01	08/28/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	0.683	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.52	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	3.70	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	95.4 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	104 %	62-125			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 09/07/01 09:19
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**MTBE Confirmation by EPA Method 8260B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**MW 3 (B1H0584-03) Water**    **Sampled: 08/23/01 13:45**    **Received: 08/23/01 15:15**

Methyl tert-butyl ether	ND	5.00	ug/l	1	1H29054	08/29/01	08/29/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	104 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	99.5 %	75-124			"	"	"	"	
Surrogate: 4-BFB	100 %	77-120			"	"	"	"	

**MW 4 (B1H0584-04) Water**    **Sampled: 08/23/01 14:15**    **Received: 08/23/01 15:15**

Methyl tert-butyl ether	ND	5.00	ug/l	1	1H29054	08/29/01	08/29/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	102 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	100 %	75-124			"	"	"	"	
Surrogate: 4-BFB	99.0 %	77-120			"	"	"	"	

**MW 6 (B1H0584-05) Water**    **Sampled: 08/23/01 13:20**    **Received: 08/23/01 15:15**

Methyl tert-butyl ether	ND	5.00	ug/l	1	1H29054	08/29/01	08/29/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	102 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	100 %	75-124			"	"	"	"	
Surrogate: 4-BFB	99.0 %	77-120			"	"	"	"	

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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

Page 4 of 10



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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Court Suite G  
 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 09/07/01 09:19

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 2 (B1H0584-02) Water Sampled: 08/23/01 14:55 Received: 08/23/01 15:15</b>									
Methyl tert-butyl ether	ND	5.00	ug/l	1	1H27022	08/27/01	08/27/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	90.5 %	73-137			"	"	"	"	
Surrogate: Toluene-d8	103 %	75-124			"	"	"	"	
Surrogate: 4-BFB	97.5 %	77-120			"	"	"	"	

North Creek Analytical - Bothell

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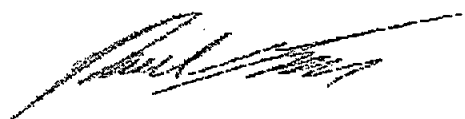
Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 09/07/01 09:19
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**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1H28012: Prepared 08/28/01 Using EPA 5030B (P/T)</b>									
<b>Blank (1H28012-BLK1)</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l						
Benzene	ND	0.500	"						
Toluene	ND	0.500	"						
Ethylbenzene	ND	0.500	"						
Xylenes (total)	ND	1.00	"						
Methyl tert-butyl ether	ND	1.00	"						
Surrogate: 4-BFB (FID)	42.8		"	48.0		89.2	62-139		
Surrogate: 4-BFB (PID)	46.4		"	48.0		96.7	62-125		
<b>LCS (1H28012-BS1)</b>									
Gasoline Range Hydrocarbons	478	50.0	ug/l	500		95.6	80-120		
Surrogate: 4-BFB (FID)	47.3		"	48.0		98.5	62-139		
<b>LCS (1H28012-BS2)</b>									
Benzene	9.72	0.500	ug/l	10.0		97.2	80-120		
Toluene	10.2	0.500	"	10.0		102	80-120		
Ethylbenzene	10.5	0.500	"	10.0		105	80-120		
Xylenes (total)	31.6	1.00	"	30.0		105	80-120		
Methyl tert-butyl ether	8.33	1.00	"	10.0		83.3	60-140		
Surrogate: 4-BFB (PID)	46.9		"	48.0		97.7	62-125		
<b>LCS Dup (1H28012-BSD1)</b>									
Gasoline Range Hydrocarbons	479	50.0	ug/l	500		95.8	80-120	0.209	25
Surrogate: 4-BFB (FID)	48.1		"	48.0		100	62-139		
<b>LCS Dup (1H28012-BSD2)</b>									
Benzene	9.71	0.500	ug/l	10.0		97.1	80-120	0.103	40
Toluene	10.3	0.500	"	10.0		103	80-120	0.976	40
Ethylbenzene	10.5	0.500	"	10.0		105	80-120	0.00	40
Xylenes (total)	31.7	1.00	"	30.0		106	80-120	0.316	40
Methyl tert-butyl ether	8.60	1.00	"	10.0		86.0	60-140	3.19	40
Surrogate: 4-BFB (PID)	47.4		"	48.0		98.8	62-125		

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin  
 6747 Sierra Court Suite G  
 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 09/07/01 09:19

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1H28012: Prepared 08/28/01 Using EPA 5030B (P/T)**

**Matrix Spike (1H28012-MS1) Source: B1H0582-02**

Gasoline Range Hydrocarbons	488	50.0	ug/l	500	ND	97.6	70-130			
Surrogate: 4-BFB (FID)	47.4		"	48.0		98.8	62-139			

**Matrix Spike (1H28012-MS2) Source: B1H0581-02**

Benzene	9.90	0.500	ug/l	10.0	ND	97.6	80-120			
Toluene	10.7	0.500	"	10.0	ND	103	75-117			
Ethylbenzene	10.7	0.500	"	10.0	ND	107	80-120			
Xylenes (total)	32.8	1.00	"	30.0	ND	107	80-120			
Methyl tert-butyl ether	9.27	1.00	"	10.0	ND	92.7	60-140			
Surrogate: 4-BFB (PID)	48.0		"	48.0		100	62-125			

**Matrix Spike Dup (1H28012-MSD1) Source: B1H0582-02**

Gasoline Range Hydrocarbons	474	50.0	ug/l	500	ND	94.8	70-130	2.91	25	
Surrogate: 4-BFB (FID)	47.9		"	48.0		99.8	62-139			

**Matrix Spike Dup (1H28012-MSD2) Source: B1H0581-02**

Benzene	9.84	0.500	ug/l	10.0	ND	97.0	80-120	0.608	40	
Toluene	10.7	0.500	"	10.0	ND	103	75-117	0.00	40	
Ethylbenzene	10.6	0.500	"	10.0	ND	106	80-120	0.939	40	
Xylenes (total)	32.3	1.00	"	30.0	ND	106	80-120	1.54	40	
Methyl tert-butyl ether	9.19	1.00	"	10.0	ND	91.9	60-140	0.867	40	
Surrogate: 4-BFB (PID)	47.9		"	48.0		99.8	62-125			

North Creek Analytical - Bothell

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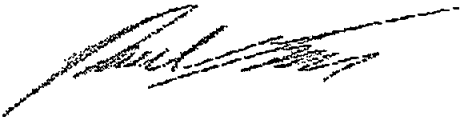
Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 09/07/01 09:19
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**MTBE Confirmation by EPA Method 8260B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1H29054: Prepared 08/29/01 Using EPA 5030B [P/T]</b>										
<b>Blank (1H29054-BLK1)</b>										
Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	20.1		"	20.0		100	73-137			
Surrogate: Toluene-d8	20.0		"	20.0		100	75-124			
Surrogate: 4-BFB	19.9		"	20.0		99.5	77-120			
<b>LCS (1H29054-BS1)</b>										
Methyl tert-butyl ether	9.05	5.00	ug/l	10.0		90.5	70-130			
Surrogate: 1,2-DCA-d4	19.8		"	20.0		99.0	73-137			
Surrogate: Toluene-d8	19.9		"	20.0		99.5	75-124			
Surrogate: 4-BFB	20.0		"	20.0		100	77-120			
<b>LCS Dup (1H29054-BSD1)</b>										
Methyl tert-butyl ether	8.94	5.00	ug/l	10.0		89.4	70-130	1.22	20	
Surrogate: 1,2-DCA-d4	20.0		"	20.0		100	73-137			
Surrogate: Toluene-d8	19.5		"	20.0		97.5	75-124			
Surrogate: 4-BFB	20.0		"	20.0		100	77-120			

North Creek Analytical - Bothell

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 Dublin CA, 94568

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 09/07/01 09:19

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1H27022: Prepared 08/27/01 Using EPA 5030B [P/T]</b>										
<b>Blank (1H27022-BLK1)</b>										
Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	20.1		"	20.0		100	73-137			
Surrogate: Toluene-d8	20.4		"	20.0		102	75-124			
Surrogate: 4-BFB	20.7		"	20.0		104	77-120			
<b>LCS (1H27022-BS1)</b>										
Methyl tert-butyl ether	9.05	5.00	ug/l	10.0		90.5	70-130			
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	73-137			
Surrogate: Toluene-d8	20.1		"	20.0		100	75-124			
Surrogate: 4-BFB	19.6		"	20.0		98.0	77-120			
<b>LCS Dup (1H27022-BSD1)</b>										
Methyl tert-butyl ether	10.5	5.00	ug/l	10.0		105	70-130	14.8	20	
Surrogate: 1,2-DCA-d4	20.6		"	20.0		103	73-137			
Surrogate: Toluene-d8	20.3		"	20.0		102	75-124			
Surrogate: 4-BFB	19.6		"	20.0		98.0	77-120			
<b>Matrix Spike (1H27022-MS1) Source: B1H0472-03</b>										
Methyl tert-butyl ether	11.0	5.00	ug/l	10.0	ND	110	70-130			
Surrogate: 1,2-DCA-d4	20.3		"	20.0		102	73-137			
Surrogate: Toluene-d8	20.2		"	20.0		101	75-124			
Surrogate: 4-BFB	20.0		"	20.0		100	77-120			
<b>Matrix Spike Dup (1H27022-MSD1) Source: B1H0472-03</b>										
Methyl tert-butyl ether	12.3	5.00	ug/l	10.0	ND	123	70-130	11.2	20	
Surrogate: 1,2-DCA-d4	20.6		"	20.0		103	73-137			
Surrogate: Toluene-d8	20.5		"	20.0		102	75-124			
Surrogate: 4-BFB	19.7		"	20.0		98.5	77-120			

North Creek Analytical - Bothell

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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G Dublin CA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	<b>Reported:</b> 09/07/01 09:19
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**Notes and Definitions**

- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- 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

North Creek Analytical - Bothell

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Robert Greer, Project Manager

***CHEVRON SERVICE STATION #9-1183***  
***Everett, Washington***

***MONITORING & SAMPLING***  
***EVENT OF NOVEMBER 29, 2001***

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 11-29-01  
 Sampler: BWN

Well ID MW-2 Well Condition: \_\_\_\_\_  
 Well Diameter 2 in. Hydrocarbon Thickness: ∅ Ft. Amount Bailed (product/water): ∅ (gal.)  
 Total Depth 16.45 ft.  
 Depth to Water 6.72 ft.

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

\_\_\_\_\_ X VF \_\_\_\_\_ = \_\_\_\_\_ X 3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ (gal.)

Purge Equipment: Disposable Bailer, Bailer, Stack, Suction, Grundfos, Other: \_\_\_\_\_  
 Sampling Equipment: Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: \_\_\_\_\_

Starting Time: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sampling Time: \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-		Y		North Creek	

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19th Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 11-29-01  
 Sampler: BWN

Well ID MW-3  
 Well Diameter 2 in.  
 Total Depth 11.70 ft.  
 Depth to Water 5.06 ft.

Well Condition: ok  
 Hydrocarbon Thickness: 0 Ft.  
 Amount Bailed (product/water): 0 (gal.)  

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

6.64 x VF 1.17 = 1.1 X 3 (case volume) = Estimated Purge Volume: 3 (gal.)

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

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

Starting Time: 1030  
 Sampling Time: 1045  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

Weather Conditions: lt. rain  
 Water Color: clear Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1033</u>	<u>1</u>	<u>7.16</u>	<u>301</u>	<u>10.9</u>			
<u>1036</u>	<u>2</u>	<u>7.14</u>	<u>296</u>	<u>10.6</u>			
<u>1039</u>	<u>3</u>	<u>7.09</u>	<u>292</u>	<u>10.5</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 VOALS</u>	<u>Y</u>	<u>H2</u>	<u>North Creek</u>	<u>Gas/BTEX/mhbs</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19th Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 11-29-01  
 Sampler: BWN

Well ID MW-4

Well Condition: OK

Well Diameter 2 in.

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

Total Depth 12.50 ft.

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

Depth to Water 5.66 ft.

6.84 X VF 1.17 = 1.16 X 3 (case volume) = Estimated Purge Volume: 3.5 (gal.)

Purge Equipment:

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

Sampling Equipment:

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

Starting Time: 1000

Weather Conditions: lt. rain

Sampling Time: 1020

Water Color: clear Odor: NO

Purging Flow Rate: \_\_\_\_\_ gpm.

Sediment Description: \_\_\_\_\_

Did well de-water? NO

If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1004</u>	<u>1.2</u>	<u>7.34</u>	<u>289</u>	<u>10.5</u>			
<u>1008</u>	<u>2.4</u>	<u>7.26</u>	<u>280</u>	<u>10.4</u>			
<u>1012</u>	<u>3.5</u>	<u>7.24</u>	<u>276</u>	<u>10.3</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 VOAIAL</u>	<u>Y</u>	<u>HL</u>	<u>North Creek</u>	<u>Gas/BTEX/mibc</u>
<u>MW 4</u>					

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 11-29-01  
 Sampler: BWN

Well ID MW-6  
 Well Diameter 2 in.  
 Total Depth 14.90 ft.  
 Depth to Water 4.46 ft.

Well Condition: OK

Hydrocarbon Thickness:	<u>Ø</u> Ft.	Amount Bailed (product/water):	<u>Ø</u> (gal.)
Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

10.44 X VF .17 = 1.77 X 3 (case volume) = Estimated Purge Volume: 5 (gal.)

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

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

Starting Time: 930  
 Sampling Time: 950  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

Weather Conditions: H. rain  
 Water Color: clear Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>935</u>	<u>1.7</u>	<u>7.53</u>	<u>239</u>	<u>10.4</u>			
<u>940</u>	<u>3.4</u>	<u>7.46</u>	<u>233</u>	<u>10.3</u>			
<u>945</u>	<u>5</u>	<u>7.39</u>	<u>229</u>	<u>10.3</u>			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>3 VOADAL</u>	<u>Y</u>	<u>HCl</u>	<u>North Creek</u>	<u>Gas/BTEX/mibx</u>

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

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Chevron SS#9-1183  
 Address: 10921 19<sup>th</sup> Avenue SE  
 City: Everett, Washington

Job#: 386616  
 Date: 11-29-01  
 Sampler: BWN

Well ID: MW-7  
 Well Diameter: 2 in.  
 Total Depth: 15.50 ft.  
 Depth to Water: 4.86 ft.

Well Condition: OK  
 Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)

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

10.64 X VF 1.17 = 1.8 X 3 (case volume) = Estimated Purge Volume: 5.5 (gal.)

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

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

Starting Time: 900  
 Sampling Time: 920  
 Purging Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? no

Weather Conditions: lt. rain  
 Water Color: clear Odor: no  
 Sediment Description: \_\_\_\_\_  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
905	1.8	7.67	220	10.5			
910	3.6	7.53	218	10.4			
915	5.5	7.49	215	10.2			

### LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 VOAMIAL	Y	HC1	North Creek	Gas/BTEX/m/bc
MW 7	1 Amber L	↓	↓	↓	TPH(D) + Ext w/SG

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





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

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 12/14/01 11:06

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB LB	B1K0596-01	Water	11/29/01 12:00	11/29/01 17:35
MW 2	B1K0596-02	Water	11/29/01 11:20	11/29/01 17:35
MW 3	B1K0596-03	Water	11/29/01 10:45	11/29/01 17:35
MW 4	B1K0596-04	Water	11/29/01 10:20	11/29/01 17:35
MW 6	B1K0596-05	Water	11/29/01 09:50	11/29/01 17:35
MW 7	B1K0596-06	Water	11/29/01 09:20	11/29/01 17:35

*[Faint, illegible text]*

North Creek Analytical - Bothell

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*[Handwritten signature]*

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Gettler-Ryan Inc. - Dublin Project: Chevron #9-1183  
 6747 Sierra Ct, Suite G Project Number: 386616 Reported:  
 Dublin CA/USA, 94568 Project Manager: Deanna Harding 12/14/01 11:06

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B  
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**TB LB (B1K0596-01) Water Sampled: 11/29/01 12:00 Received: 11/29/01 17:35**

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1L10002	12/10/01	12/10/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	76.5 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	80.6 %	62-125			"	"	"	"	

**MW 2 (B1K0596-02) Water Sampled: 11/29/01 11:20 Received: 11/29/01 17:35**

Gasoline Range Hydrocarbons	1640	50.0	ug/l	1	1L10002	12/10/01	12/10/01	NWTPH-G/8021B	
Benzene	28.6	0.500	"	"	"	"	"	"	
Toluene	1.06	0.500	"	"	"	"	"	"	
Ethylbenzene	39.0	0.500	"	"	"	"	"	"	
Xylenes (total)	45.9	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	%	62-139			"	"	"	"	S-02
Surrogate: 4-BFB (PID)	139 %	62-125			"	"	"	"	S-04

**MW 3 (B1K0596-03) Water Sampled: 11/29/01 10:45 Received: 11/29/01 17:35**

Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1L10002	12/10/01	12/10/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	81.7 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	83.3 %	62-125			"	"	"	"	

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

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 12/14/01 11:06

**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW 4 (B1K0596-04) Water</b> Sampled: 11/29/01 10:20 Received: 11/29/01 17:35									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1L10002	12/10/01	12/10/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	1.45	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	82.5 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	86.7 %	62-125			"	"	"	"	
<b>MW 6 (B1K0596-05) Water</b> Sampled: 11/29/01 09:50 Received: 11/29/01 17:35									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1L10002	12/10/01	12/10/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	2.09	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	85.6 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	89.6 %	62-125			"	"	"	"	
<b>MW 7 (B1K0596-06) Water</b> Sampled: 11/29/01 09:20 Received: 11/29/01 17:35									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	1L10002	12/10/01	12/10/01	NWTPH-G/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	75.6 %	62-139			"	"	"	"	
Surrogate: 4-BFB (PID)	81.2 %	62-125			"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>MW 7 (B1K0596-06) Water</b> <b>Sampled: 11/29/01 09:20</b> <b>Received: 11/29/01 17:35</b>										
Diesel Range Hydrocarbons	ND	0.250		mg/l	1	1L05009	12/05/01	12/06/01	NWTPH-Dx	
Lube Oil Range Hydrocarbons	ND	0.500		"	"	"	"	"	"	
Surrogate: 2-FBP	58.0 %	50-150				"	"	"	"	
Surrogate: Octacosane	63.6 %	50-150				"	"	"	"	

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>MW 2 (B1K0596-02) Water</b> <b>Sampled: 11/29/01 11:20</b> <b>Received: 11/29/01 17:35</b>										
Methyl tert-butyl ether	ND	5.00		ug/l	1	1L03035	12/03/01	12/04/01	EPA 8260B	
Surrogate: 1,2-DCA-d4	72.5 %	73-137				"	"	"	"	S-03
Surrogate: Toluene-d8	99.5 %	75-124				"	"	"	"	
Surrogate: 4-BFB	97.5 %	77-120				"	"	"	"	

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 12/14/01 11:06
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**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1L10002: Prepared 12/10/01 Using EPA 5030B (P/T)</b>									
<b>Blank (1L10002-BLK1)</b>									
Gasoline Range Hydrocarbons	ND	50.0	ug/l						
Benzene	ND	0.500	"						
Toluene	ND	0.500	"						
Ethylbenzene	ND	0.500	"						
Xylenes (total)	ND	1.00	"						
Methyl tert-butyl ether	ND	1.00	"						
Surrogate: 4-BFB (FID)	37.0		"	48.0		77.1	62-139		
Surrogate: 4-BFB (PID)	38.8		"	48.0		80.8	62-125		
<b>LCS (1L10002-BS1)</b>									
Gasoline Range Hydrocarbons	465	50.0	ug/l	500		93.0	80-120		
Surrogate: 4-BFB (FID)	51.0		"	48.0		106	62-139		
<b>LCS (1L10002-BS2)</b>									
Benzene	8.44	0.500	ug/l	10.0		84.4	80-120		
Toluene	8.76	0.500	"	10.0		87.6	80-120		
Ethylbenzene	9.24	0.500	"	10.0		92.4	80-120		
Xylenes (total)	28.2	1.00	"	30.0		94.0	80-120		
Methyl tert-butyl ether	8.21	1.00	"	10.0		82.1	60-140		
Surrogate: 4-BFB (PID)	42.6		"	48.0		88.8	62-125		
<b>LCS Dup (1L10002-BSD1)</b>									
Gasoline Range Hydrocarbons	473	50.0	ug/l	500		94.6	80-120	1.71	25
Surrogate: 4-BFB (FID)	51.1		"	48.0		106	62-139		
<b>LCS Dup (1L10002-BSD2)</b>									
Benzene	8.53	0.500	ug/l	10.0		85.3	80-120	1.06	40
Toluene	9.21	0.500	"	10.0		92.1	80-120	5.01	40
Ethylbenzene	9.50	0.500	"	10.0		95.0	80-120	2.77	40
Xylenes (total)	29.3	1.00	"	30.0		97.7	80-120	3.83	40
Methyl tert-butyl ether	8.91	1.00	"	10.0		89.1	60-140	8.18	40
Surrogate: 4-BFB (PID)	44.3		"	48.0		92.3	62-125		

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 12/14/01 11:06
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**Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control**  
**North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1L10002: Prepared 12/10/01 Using EPA 5030B (P/T)**

<b>Matrix Spike (1L10002-MS1)</b>					<b>Source: B1K0590-03</b>					
Gasoline Range Hydrocarbons	441	50.0	ug/l	500	ND	85.6	70-130			
Surrogate: 4-BFB (FID)	49.4		"	48.0		103	62-139			

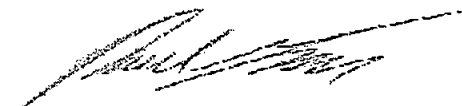
<b>Matrix Spike (1L10002-MS2)</b>					<b>Source: B1K0596-03</b>					
Benzene	8.29	0.500	ug/l	10.0	ND	82.9	80-120			
Toluene	8.82	0.500	"	10.0	ND	87.0	75-117			
Ethylbenzene	9.12	0.500	"	10.0	ND	91.2	80-120			
Xylenes (total)	27.8	1.00	"	30.0	ND	92.7	80-120			
Methyl tert-butyl ether	8.76	1.00	"	10.0	ND	87.6	60-140			
Surrogate: 4-BFB (PID)	42.9		"	48.0		89.4	62-125			

<b>Matrix Spike Dup (1L10002-MSD1)</b>					<b>Source: B1K0590-03</b>					
Gasoline Range Hydrocarbons	463	50.0	ug/l	500	ND	90.0	70-130	4.87	25	
Surrogate: 4-BFB (FID)	51.4		"	48.0		107	62-139			

<b>Matrix Spike Dup (1L10002-MSD2)</b>					<b>Source: B1K0596-03</b>					
Benzene	8.21	0.500	ug/l	10.0	ND	82.1	80-120	0.970	40	
Toluene	8.55	0.500	"	10.0	ND	84.3	75-117	3.11	40	
Ethylbenzene	8.85	0.500	"	10.0	ND	88.5	80-120	3.01	40	
Xylenes (total)	27.1	1.00	"	30.0	ND	90.3	80-120	2.55	40	
Methyl tert-butyl ether	8.36	1.00	"	10.0	ND	83.6	60-140	4.67	40	
Surrogate: 4-BFB (PID)	43.2		"	48.0		90.0	62-125			

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Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 12/14/01 11:06
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**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
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**Batch 1L05009: Prepared 12/05/01 Using EPA 3520C**

**Blank (1L05009-BLK1)**

Diesel Range Hydrocarbons	ND	0.250	mg/l							
Lube Oil Range Hydrocarbons	ND	0.500	"							
Surrogate: 2-FBP	0.206		"	0.320		64.4	50-150			
Surrogate: Octacosane	0.237		"	0.320		74.1	50-150			

**LCS (1L05009-BS1)**

Diesel Range Hydrocarbons	1.26	0.250	mg/l	2.00		63.0	50-150			
Surrogate: 2-FBP	0.202		"	0.320		63.1	50-150			

**LCS Dup (1L05009-BSD1)**

Diesel Range Hydrocarbons	1.34	0.250	mg/l	2.00		67.0	50-150	6.15	50	
Surrogate: 2-FBP	0.219		"	0.320		68.4	50-150			

**Duplicate (1L05009-DUP1)**

**Source: B1L0017-03**

Diesel Range Hydrocarbons	ND	0.250	mg/l		0.267			82.5	50	Q-05
Lube Oil Range Hydrocarbons	ND	0.500	"		ND				50	
Surrogate: 2-FBP	0.181		"	0.303		59.7	50-150			
Surrogate: Octacosane	0.193		"	0.303		63.7	50-150			

North Creek Analytical - Bothell

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Robert Greer, Project Manager

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Environmental Laboratory Network

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

Project: Chevron #9-1183  
 Project Number: 386616  
 Project Manager: Deanna Harding

Reported:  
 12/14/01 11:06

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1L03035: Prepared 12/03/01 Using EPA 5030B</b>										
<b>Blank (1L03035-BLK1)</b>										
Methyl tert-butyl ether	ND	5.00	ug/l							
Surrogate: 1,2-DCA-d4	15.4		"	20.0		77.0	73-137			
Surrogate: Toluene-d8	19.7		"	20.0		98.5	75-124			
Surrogate: 4-BFB	20.1		"	20.0		100	77-120			
<b>LCS (1L03035-BS1)</b>										
Methyl tert-butyl ether	8.90	5.00	ug/l	10.0		89.0	70-130			
Surrogate: 1,2-DCA-d4	15.6		"	20.0		78.0	73-137			
Surrogate: Toluene-d8	19.8		"	20.0		99.0	75-124			
Surrogate: 4-BFB	20.1		"	20.0		100	77-120			
<b>LCS Dup (1L03035-BSD1)</b>										
Methyl tert-butyl ether	9.29	5.00	ug/l	10.0		92.9	70-130	4.29	20	
Surrogate: 1,2-DCA-d4	15.8		"	20.0		79.0	73-137			
Surrogate: Toluene-d8	19.5		"	20.0		97.5	75-124			
Surrogate: 4-BFB	19.7		"	20.0		98.5	77-120			
<b>Matrix Spike (1L03035-MS1) Source: B1K0582-02</b>										
Methyl tert-butyl ether	9.28	5.00	ug/l	10.0	ND	92.8	70-130			
Surrogate: 1,2-DCA-d4	15.0		"	20.0		75.0	73-137			
Surrogate: Toluene-d8	19.8		"	20.0		99.0	75-124			
Surrogate: 4-BFB	19.7		"	20.0		98.5	77-120			
<b>Matrix Spike Dup (1L03035-MSD1) Source: B1K0582-02</b>										
Methyl tert-butyl ether	12.4	5.00	ug/l	10.0	ND	124	70-130	28.8	20	Q-07
Surrogate: 1,2-DCA-d4	14.9		"	20.0		74.5	73-137			
Surrogate: Toluene-d8	19.8		"	20.0		99.0	75-124			
Surrogate: 4-BFB	19.8		"	20.0		99.0	77-120			

North Creek Analytical - Bothell

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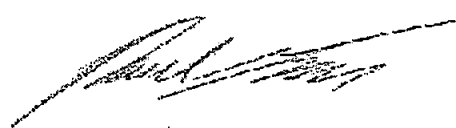
Gettler-Ryan Inc. - Dublin 6747 Sierra Ct, Suite G Dublin CA/USA, 94568	Project: Chevron #9-1183 Project Number: 386616 Project Manager: Deanna Harding	Reported: 12/14/01 11:06
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**Notes and Definitions**

- Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- S-03 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

North Creek Analytical - Bothell

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