PACIFIC
ENVIRONMENTAL
GROUP, INC.

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February 26, 1998
Project 520-126.2B

Mr. Dan Barnat
Chevron U.S.A. Products Company
P.O. Box 5004
San Ramon, California 94583-0804

Re: Quarterly Monitoring and Sampling Activities
Former Chevron Service Station 9-9481
647 - 140th Avenue Northeast
Bellevue, Washington

Dear Mr. Barnat:

Pacific Environmental Group Inc. (PEG) conducted the quarterly groundwater monitoring and sampling event on December 1, 1997 at the site referenced above. Three groundwater monitoring wells were gauged to determine the depth to groundwater and to check for the presence of separate-phase hydrocarbons (SPH). There were no SPH observed in any of the wells.

A site location map is included as Figure 1. A groundwater elevation contour map providing benzene/TPH-gasoline concentrations is presented as Figure 2. Groundwater elevations and analytical results are presented in Table 1.

Groundwater monitoring and sample collection protocol and field data sheets are presented in Attachment A. The groundwater samples were analyzed for the following parameters:

- Total petroleum hydrocarbons calculated as gasoline (TPH-gasoline) by Washington Method WTPH-G; and

- Benzene, toluene, ethylbenzene, and xylene compounds (BTEX) by EPA Method 8020.

Laboratory reports and chain-of-custody records are included in Attachment B.

Purge water was treated on-site by filtering the water through granular activated carbon and was subsequently discharged.

PEG is pleased to assist Chevron on this project. If you have any questions, please call.

Sincerely,

Pacific Environmental Group, Inc.

John. J. Blough
Field Services Manager

Attachments: Figure 1 - Site Location Map
Figure 2 - Site Map
Table 1 - Groundwater Elevations and Analytical Results
Attachment A - Groundwater Monitoring and Sample Collection Protocol
Field Data Sheets
Attachment B - Laboratory Analytical Results
Chain-of-Custody Documentation

cc: Mr. Ben Forson, Department of Ecology

TABLE 1
GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS

Former Service Station 9-9481
647 - 140th Avenue Northeast,
Bellevue, Washington

Sample I.D. T.O.C.	Date	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	TPH-Gasoline (ppb)	Total Lead (ppb)	DTW (feet)	SPH (feet)	WTE (feet)
MW-1	05/30/96	ND	ND	ND	ND	ND	3.67	5.35	--	93.73
99.08	02/06/97	ND	ND	ND	ND	ND	--	4.61	--	94.47
	05/07/97	ND	ND	ND	1.54	ND	--	4.88	--	94.20
	08/06/97	ND	ND	ND	ND	ND	--	5.01	--	94.07
	12/01/97	ND	ND	ND	ND	ND	--	4.70	--	94.38
MW-2	05/30/96	4.09	6.28	1.24	32.9	496	2.67	8.95	--	89.68
98.63	02/06/97	10.3	16.6	16.6	75.1	1,670	--	8.52	--	90.11
	05/07/97	6.06	1.63	10.7	18.5	833	--	8.55	--	90.08
	08/06/97	6.84	1.27	7.83	19.5	528	--	8.95	--	89.68
	12/01/97	7.40	3.85	4.14	16.8	434	--	8.60	--	90.03
MW-3	05/30/96	5.06	ND	ND	ND	ND	6.92	8.45	--	90.01
98.46	02/06/97	5.16	0.514	ND	ND	213	--	8.20	--	90.26
	05/07/97	8.81	ND	ND	ND	424	--	8.20	--	90.26
Dilution	08/06/97	ND	ND	ND	ND	382	--	8.30	--	90.16
	12/01/97	9.76	ND	ND	ND	275	--	8.15	--	90.31
TB	12/01/97	ND	ND	ND	ND	ND	--			
MTCA Method A Cleanup		**5**	**40**	**30**	**20**	**1,000**	**5.0**			
Laboratory Reporting Limits:		**0.50**	**0.50**	**0.50**	**1.0**	**50**	**2.0**			

Concentrations reported as parts per billion (ug/L)
ppb - Parts per billion (µg/L)
TOC = Top of casing
DTW = Depth to water
Dilution = Sample was diluted, higher detection limits
SPH = Separate-phase hydrocarbon thickness
WTE = Water table elevation
ND = Not detected at the laboratory reporting limits
-- = Not sampled, not measured, or not analyzed
TPH as Gasoline - Analysis by Washington Method WTPH-G
BTEX Compounds - Analysis by EPA Method 8020
Total Lead - Analysis by EPA Method 7421

REFERENCE:
USGS 7.5 x 15 MIN. TOPOGRAPHIC MAP
TITLED: Bellevue North, Washington
DATED: 1977 REVISED: 1983
TITLED: Bellevue South, Washington
DATED: 1977 REVISED: 1983
COUNTY: King

SCALE: 1 to 25,000 (1 Inch = Approximately 2083.33 Feet)
(1 Centmeter = 250 Meters)

MAP LOCATION

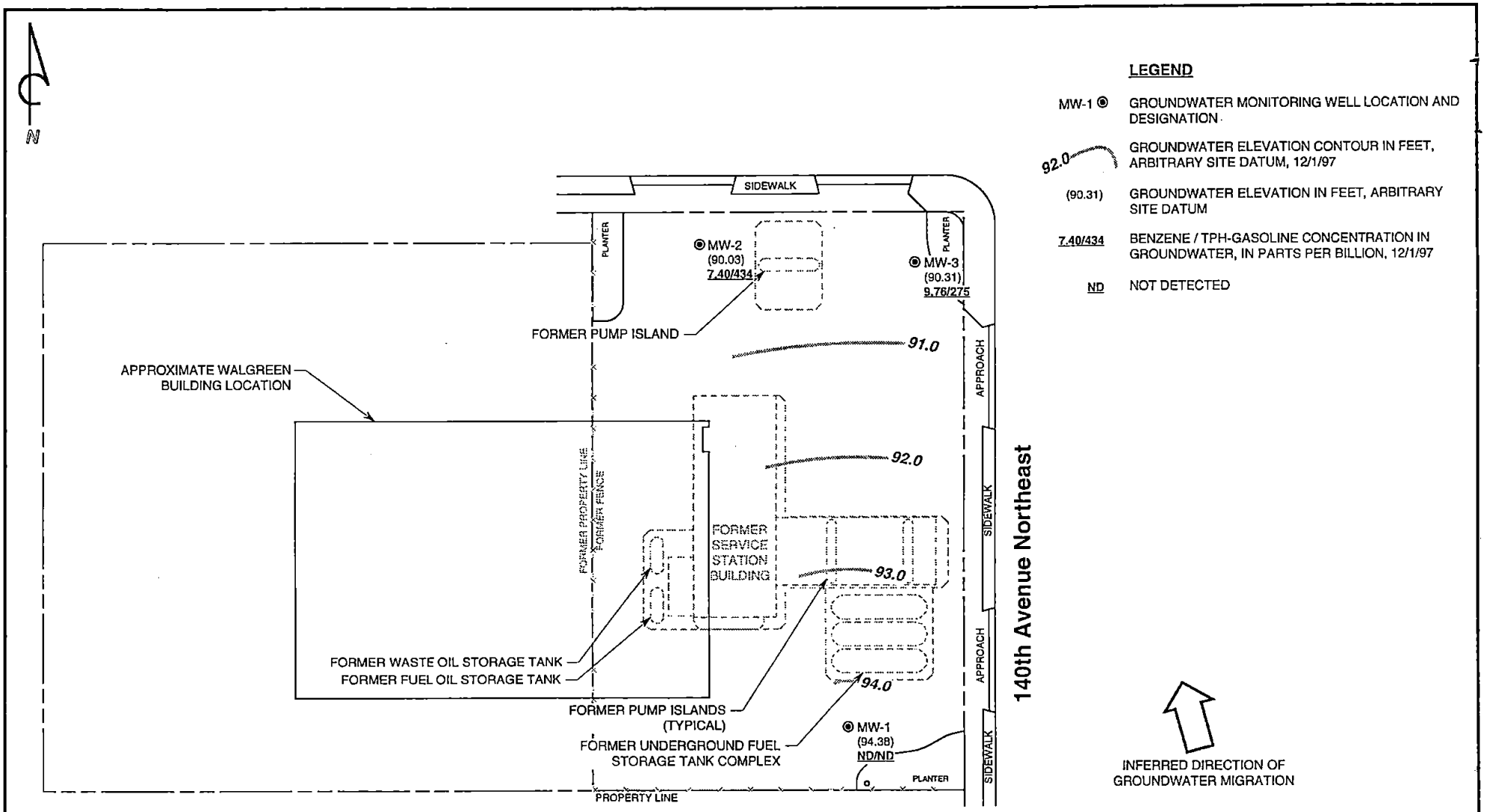
PACIFIC ENVIRONMENTAL GROUP, INC.

FORMER CHEVRON SERVICE STATION #9-9481
647 - 140th Avenue Northeast
Bellevue, Washington

SITE LOCATION MAP

FIGURE: 1

PROJECT: 520-126.2B



PACIFIC ENVIRONMENTAL GROUP, INC.

SCALE IN FEET
0 30 60

FORMER CHEVRON SERVICE STATION #9-9481
647 - 140th Avenue Northeast
Bellevue, Washington

SITE MAP

FIGURE: 2
PROJECT: 520-126.2B

ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

FIELD DATA SHEETS

ATTACHMENT A

Groundwater Monitoring

The groundwater sampling procedure consisted of measuring the water level in each well using an electronic water level indicator. The monitoring order is based on previous analytical data, moving from lowest to highest concentrations. Wells suspected to contain separate-phase hydrocarbons (SPH) were measured using an oil/water interface probe to measure the product thickness. Wells containing SPH are further checked using a clear bailer to observe viscosity and color of the SPH. Monitoring equipment in contact with groundwater was washed between wells with detergent and triple rinsed with distilled water.

Using existing surface elevation data, static water elevations were calculated for the groundwater elevation contour map. If SPH was measured in the well, an adjusted groundwater elevation was calculated by the following calculation:

(Product thickness) x (0.8) + (Water elevation) = Corrected water elevation

Groundwater Sampling

The groundwater monitoring wells were purged of three casing volumes of water or until dry using a centrifugal pump with disposable polyethylene tubing or bailed by hand using disposable bailers. Wells containing SPH greater than 0.02-feet in thickness were not sampled.

After the water level in each well recovered to within at least 60% of the initial measurement, a sample was collected using a disposable bailer and was placed into appropriate EPA-approved containers. Slow recharging wells were allowed to recharge as long as possible before sample collection. Samples requiring filtering were filtered in the laboratory. Information about each well, purge, recovery data and observations were noted on the groundwater sample data sheets which are included in this attachment. The samples were labeled, logged onto a chain-of-custody document, sealed, and transported to a Chevron approved laboratory. A set of trip blanks accompanied the groundwater samples throughout the sampling event. Duplicate samples and blind samples were not collected unless specifically requested by Chevron.

FIELD REPORT

DEPTH TO WATER/SEPARATE-PHASE HYDROCARBON SURVEY

PROJECT No.: 520-126.2B LOCATION: 647 140th Av NE. Bellevue, WA DATE: 12/1/97

CLIENT/STATION NO.: 9-94181 FIELD TECHNICIAN: Kyle C. Miller DAY OF WEEK: Monday

PROBE TYPE/ID No.
- ☐ Oil/Water IF
- ☑ H_2O level indicator
- ☐ Other:

Dtw Order	Well ID	Time	Surface Seal	Lid Secure	Gasket	Lock	Expanding Cap	Total Depth (feet)	First Depth to Water (feet) TOB/TOC	Second Depth to Water (feet) TOB/TOC	SEPARATE-PHASE HYDROCARBONS (SPH): SPH Depth (feet) TOB/TOC	SPH Thickness (feet)	COLOR: Fresh	Weathered	Gas	Oil	VISCOSITY: Lite	Medium	Heavy	LIQUID REMOVED (gallons): SPH / H_2O
	MW-1	17:02	✓	✓	✓	✓	✓	19.90	4.70											
	MW-2	16:40	✓	✓	✓	✓	✓	17.50	8.60											
	MW-3	16:20	✓	✓	✓	✓	✓	18.40	8.15											

Comments:

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

OJECT No.: 520-126.28 LOCATION: 647 140th Ave NE Bellevue, WA WELL ID #: MW-1

IENT/STATION No.: 9-9481 FIELD TECHNICIAN: Kyle

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

D 19.90 - DTW = 4.70 Gal/Linear x Foot 0.17 = 2.58 Number of x Casings 3 = Calculated Purge 7.75

DATE PURGED: 12/1/97 START: 16:45 END (2400 hr): 16:52 PURGED BY: Miller

DATE SAMPLED: 12/1/97 START: _____ END (2400 hr): 17:02 SAMPLED BY: Miller

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 4.70 TOB/TOC TOC

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☐ Airlift: _____
- ☒ Centrifugal: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLE I.D.	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-1	12/1/97	17:02	2	40mL	VOA	HCL/ICE	WI GAS/BTEX

WELL INTEGRITY: ☒ Good ☐ Fair ☐ Poor _____

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

OJECT No.: 520-126.20 LOCATION: 643 140th Ave NE Bellevue, WA WELL ID #: MW-2

IENT/STATION No.: 9-9481 FIELD TECHNICIAN: Kyle

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

D 17.50 - DTW = 8.60 Gal/Linear x Foot 0.17 = 1.51 Number of x Casings 3 = Calculated Purge 4.53

DATE PURGED: 12/1/97 START: 16:25 END (2400 hr): 16:30 PURGED BY: Mike

DATE SAMPLED: 12/1/97 START: _____ END (2400 hr): 16:40 SAMPLED BY: Mike

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR

Color: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
Turbidity: NTU 0-200, Heavy, Moderate, Light, Trace
Odor: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 8.60 TOB/TOC TOC

PURGING EQUIPMENT/I.D.

- ☐ Bailer: _____
- ☐ Airlift: _____
- ☒ Centrifugal: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLING EQUIPMENT/I.D.

- ☒ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLE I.D.	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-2	12/1/97	16:40	2	40mL	VOA	HCL/ICE	WI GRO/BTEX

WELL INTEGRITY: ☒ Good ☐ Fair ☐ Poor _____

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

FIELD DATA SHEET

ER SAMPLE FIELD DATA SHEET

OJECT No.: 520-126.26 LOCATION: 647 140th Ave NE Bellevue, WA WELL ID #: MW-3

IENT/STATION No.: 9-9481 FIELD TECHNICIAN: Kyle

WELL INFORMATION

Depth to Liquid: _____ TOB _____ TOC
Depth to water: _____ TOB _____ TOC
Total depth: _____ TOB _____ TOC
Date: _____ Time (2400): _____

Probe Type and I.D. #
- ☐ Oil/Water interface _____
- ☒ Electronic indicator _____
- ☐ Other; _____

CASING DIAMETER		GAL/ LINEAR FT.
☒	2	0.17
☐	3	0.38
☐	4	0.66
☐	4.5	0.83
☐	5	1.02
☐	6	1.5
☐	8	2.6

SAMPLE TYPE
- ☒ Groundwater
- ☐ Duplicate
- ☐ Extraction well
- ☐ Trip blank
- ☐ Field blank
- ☐ Equipment blank
- ☐ Other; _____

D 18.40 - DTW = 8.15 Gal/Linear x Foot 0.17 = 1.74 Number of x Casings 3 = Calculated Purge 5.22

DATE PURGED: 12/1/97 START: 16:05 END (2400 hr): 16:10 PURGED BY: Mike

DATE SAMPLED: 12/1/97 START: _____ END (2400 hr): 16:20 SAMPLED BY: Mike

TIME (2400 hr)	VOLUME (gal.)	pH (units)	E.C. (umhos/cm @ 25°C)	TEMPERATURE (°F)	COLOR	TURBIDITY	ODOR

COLOR: Cobalt 0-100, Clear, Cloudy, Yellow, Brown
TURBIDITY: NTU 0-200, Heavy, Moderate, Light, Trace
ODOR: Strong, Moderate, Faint, None

Pumped dry Yes / (No)

FIELD MEASUREMENTS AT TIME OF SAMPLE, AFTER RECHARGE:

DTW: 8.15 TOB/TOC TOC

PURGING EQUIPMENT/I.D. #
- ☐ Bailer: _____
- ☒ Centrifugal: _____
- ☐ Other: _____
- ☐ Airlift _____
- ☐ Dedicated: _____

SAMPLING EQUIPMENT/I.D. #
- ☒ Bailer: _____
- ☐ Dedicated: _____
- ☐ Other: _____

SAMPLE I.D.	DATE	TIME (2400)	No. of Cont.	SIZE	CONTAINER	PRESERVE	ANALYTICAL PARAMETER
MW-3	12/1/97	16:20	2	40mL	VOA	HCL/ICE	WTPH-G/BTEX

WELL INTEGRITY: ☒ Good ☐ Fair ☐ Poor _____

REMARKS: _____

SIGNATURE: _____

PACIFIC ENVIRONMENTAL GROUP, INC.

ATTACHMENT B

LABORATORY ANALYTICAL RESULTS

CHAIN-OF-CUSTODY DOCUMENTATION

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group	Project:	Chevron #9-9481, WR# 9045915	Sampled: 12/1/97
4020 148th Ave NE, Ste B	Project Number:	520-126.2B	Received: 12/3/97
Redmond, WA 98052	Project Manager:	John Blough	Reported: 12/15/97 13:15

Summary Report*
(Please refer to the Analytical Report for a thorough review of the complete data set.)

Method	Analyte	Units	MW-1 Water 12/1/97 B712065-01	MW-2 Water 12/1/97 B712065-02	MW-3 Water 12/1/97 B712065-03	TB Water 12/1/97 B712065-04
WTPH-G/8020	Gasoline Range Hydrocarbons	ug/l	<50.0	**434**	**275**	<50.0
"	Benzene	"	<0.500	**7.40**	**9.76**	<0.500
"	Toluene	"	<0.500	**3.85**	<0.500	<0.500
"	Ethylbenzene	"	<0.500	**4.14**	<0.500	<0.500
"	Xylenes (total)	"	<1.00	**16.8**	<1.00	<1.00

North Creek Analytical, Inc.

**The Summary Report is a subset of the final Analytical Report and does not include substantial supportive information such as quality control data; this report accurately summarizes sample results for your convenience only.*

Joy B Chang, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

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PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group	Project:	Chevron #9-9481, WR# 9045915	Sampled: 12/1/97
4020 148th Ave NE, Ste B	Project Number:	520-126.2B	Received: 12/3/97
Redmond, WA 98052	Project Manager:	John Blough	Reported: 12/15/97 13:12

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	B712065-01	Water	12/1/97
MW-2	B712065-02	Water	12/1/97
MW-3	B712065-03	Water	12/1/97
TB	B712065-04	Water	12/1/97

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

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SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group	Project:	Chevron #9-9481, WR# 9045915	Sampled: 12/1/97
4020 148th Ave NE, Ste B	Project Number:	520-126.2B	Received: 12/3/97
Redmond, WA 98052	Project Manager:	John Blough	Reported: 12/15/97 13:12

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A
North Creek Analytical - Bothell

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**B712065-01**				**Water**	
Gasoline Range Hydrocarbons	1270328	12/12/97	12/12/97		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	*50.0-150*		*79.6*	*%*	
Surrogate: 4-BFB (PID)	"	"	"	*50.0-150*		*82.5*	"	
MW-2			**B712065-02**				**Water**	
Gasoline Range Hydrocarbons	1270328	12/12/97	12/12/97		50.0	**434**	ug/l	
Benzene	"	"	"		0.500	**7.40**	"	
Toluene	"	"	"		0.500	**3.85**	"	
Ethylbenzene	"	"	"		0.500	**4.14**	"	
Xylenes (total)	"	"	"		1.00	**16.8**	"	
Surrogate: 4-BFB (FID)	"	"	"	*50.0-150*		*93.5*	*%*	
Surrogate: 4-BFB (PID)	"	"	"	*50.0-150*		*83.8*	"	
MW-3			**B712065-03**				**Water**	
Gasoline Range Hydrocarbons	1270328	12/12/97	12/13/97		50.0	**275**	ug/l	
Benzene	"	"	"		0.500	**9.76**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	*50.0-150*		*131*	*%*	
Surrogate: 4-BFB (PID)	"	"	"	*50.0-150*		*81.3*	"	
TB			**B712065-04**				**Water**	
Gasoline Range Hydrocarbons	1270328	12/12/97	12/12/97		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Surrogate: 4-BFB (FID)	"	"	"	*50.0-150*		*76.9*	*%*	
Surrogate: 4-BFB (PID)	"	"	"	*50.0-150*		*83.1*	"	

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Joy B Chang, Project Manager

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group	Project:	Chevron #9-9481, WR# 9045915	Sampled: 12/1/97
4020 148th Ave NE, Ste B	Project Number:	520-126.2B	Received: 12/3/97
Redmond, WA 98052	Project Manager:	John Blough	Reported: 12/15/97 13:12

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX by WTPH-G and EPA 8020A/Quality Control
North Creek Analytical - Bothell

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1270328	**Date Prepared: 12/12/97**					**Extraction Method: EPA 5030 (P/T)**				
Blank	**1270328-BLK1**									
Gasoline Range Hydrocarbons	12/12/97			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**1.00**				
Surrogate: 4-BFB (FID)	"	*48.0*		*37.7*	"	*50.0-150*	*78.5*			
Surrogate: 4-BFB (PID)	"	*48.0*		*39.6*	"	*50.0-150*	*82.5*			
LCS	**1270328-BS1**									
Gasoline Range Hydrocarbons	12/12/97	500		561	ug/l	75.0-125	112			
Surrogate: 4-BFB (FID)	"	*48.0*		*42.5*	"	*50.0-150*	*88.5*			
Duplicate	**1270328-DUP1**		**B712067-05**							
Gasoline Range Hydrocarbons	12/12/97		28400	26400	ug/l			25.0	**7.30**	
Surrogate: 4-BFB (FID)	"	*48.0*		*39.2*	"	*50.0-150*	*81.7*			
Duplicate	**1270328-DUP2**		**B712216-05**							
Gasoline Range Hydrocarbons	12/13/97		853	692	ug/l			25.0	**20.8**	
Surrogate: 4-BFB (FID)	"	*48.0*		*61.4*	"	*50.0-150*	*128*			
Matrix Spike	**1270328-MS1**		**B712216-07**							
Benzene	12/12/97	10.0	ND	9.83	ug/l	70.0-130	**98.3**			
Toluene	"	10.0	ND	9.99	"	70.0-130	**99.9**			
Ethylbenzene	"	10.0	ND	9.24	"	70.0-130	**92.4**			
Xylenes (total)	"	30.0	ND	27.5	"	70.0-130	**91.7**			
Surrogate: 4-BFB (PID)	"	*48.0*		*40.6*	"	*50.0-150*	*84.6*			
Matrix Spike Dup	**1270328-MSD1**		**B712216-07**							
Benzene	12/12/97	10.0	ND	9.63	ug/l	70.0-130	**96.3**	15.0	**2.06**	
Toluene	"	10.0	ND	9.65	"	70.0-130	**96.5**	15.0	**3.46**	
Ethylbenzene	"	10.0	ND	9.28	"	70.0-130	**92.8**	15.0	**0.432**	
Xylenes (total)	"	30.0	ND	27.6	"	70.0-130	**92.0**	15.0	**0.327**	
Surrogate: 4-BFB (PID)	"	*48.0*		*40.4*	"	*50.0-150*	*84.2*			

North Creek Analytical, Inc.

**Refer to end of report for text of notes and definitions.*

Joy B Chang, Project Manager

NORTH CREEK ANALYTICAL
Environmental Laboratory Services

BOTHELL ▪ (425) 481-9200 ▪ FAX 485-2992
SPOKANE ▪ (509) 924-9200 ▪ FAX 924-9290
PORTLAND ▪ (503) 643-9200 ▪ FAX 644-2202

Pacific Environmental Group	Project:	Chevron #9-9481, WR# 9045915	Sampled: 12/1/97
4020 148th Ave NE, Ste B	Project Number:	520-126.2B	Received: 12/3/97
Redmond, WA 98052	Project Manager:	John Blough	Reported: 12/15/97 13:12

Notes and Definitions

#	Note
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
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Joy B Chang, Project Manager

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

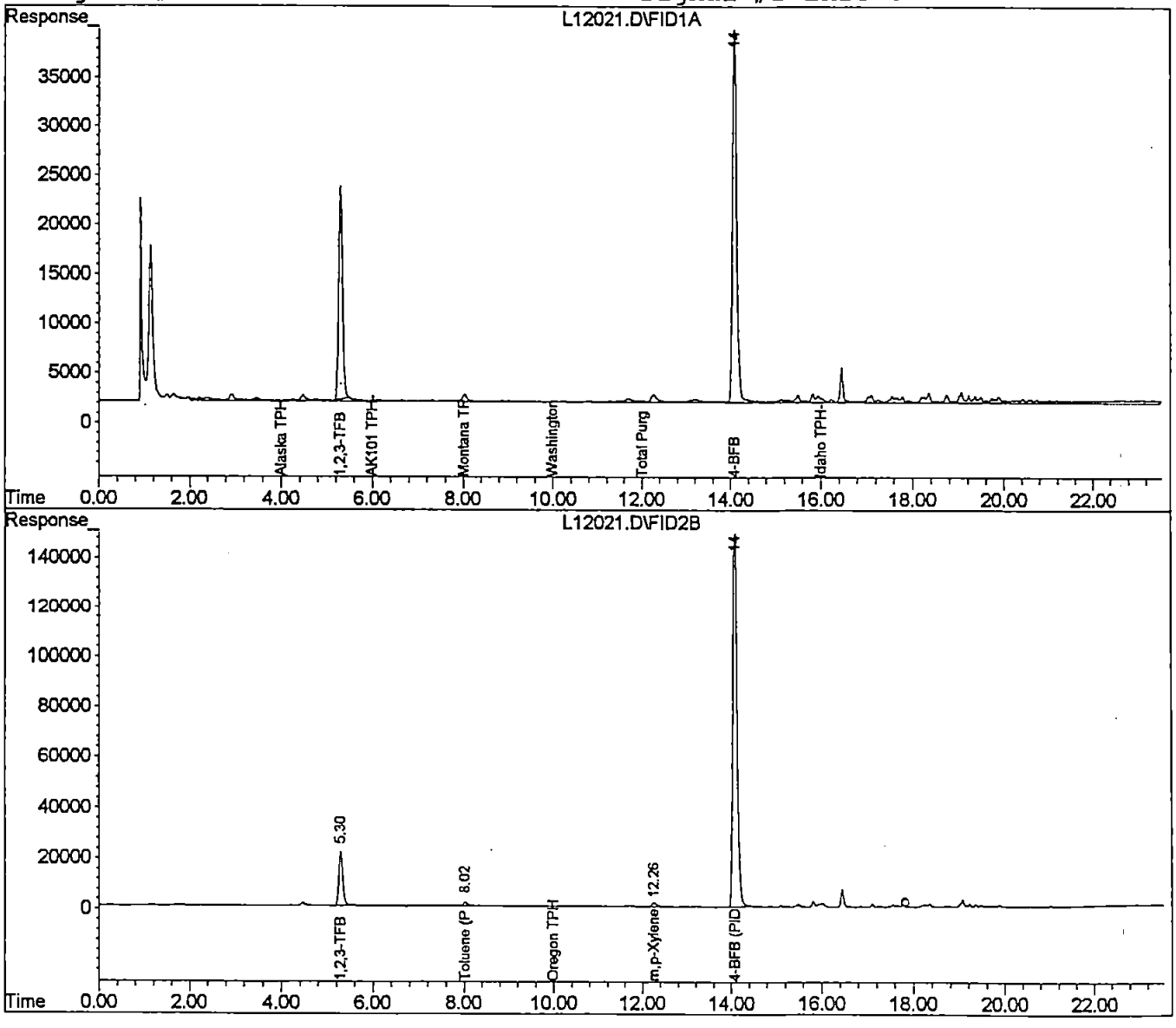
Quantitation Report

Data File : C:\HPCHEM\2\DATA\L12021.D\FID1A.CH Vial: 21
Acq On : 12 Dec 1997 3:25 pm Operator: lac
Sample : b712065-01 Inst : GC #4
Misc : 5 mL Multiplr: 1.00
IntFile : SURR.E

Data File : C:\HPCHEM\2\DATA\L12021.D\FID2B.CH Vial: 21
Acq On : 12 Dec 97 3:25 pm Operator: lac
Sample : b712065-01 Inst : GC #4
Misc : 5 mL Multiplr: 1.00
IntFile : SURR2.E
Quant Time: Dec 12 15:49 1997 Quant Results File: TPHG.RES

Quant Method : C:\HPCHEM\2\METHODS\TPHG.M (Chemstation Integrator)
Title : TPH-G Water Method
Last Update : Tue Dec 02 07:57:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : TPHG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report

Data File : C:\HPCHEM\2\DATA\L12022.D\FID1A.CH
Acq On : 12 Dec 1997 3:55 pm
Sample : b712065-02
Misc : 5 mL
IntFile : SURR.E

Vial: 22
Operator: lac
Inst : GC #4
Multiplr: 1.00

Data File : C:\HPCHEM\2\DATA\L12022.D\FID2B.CH
Acq On : 12 Dec 97 3:55 pm
Sample : b712065-02
Misc : 5 mL
IntFile : SURR2.E

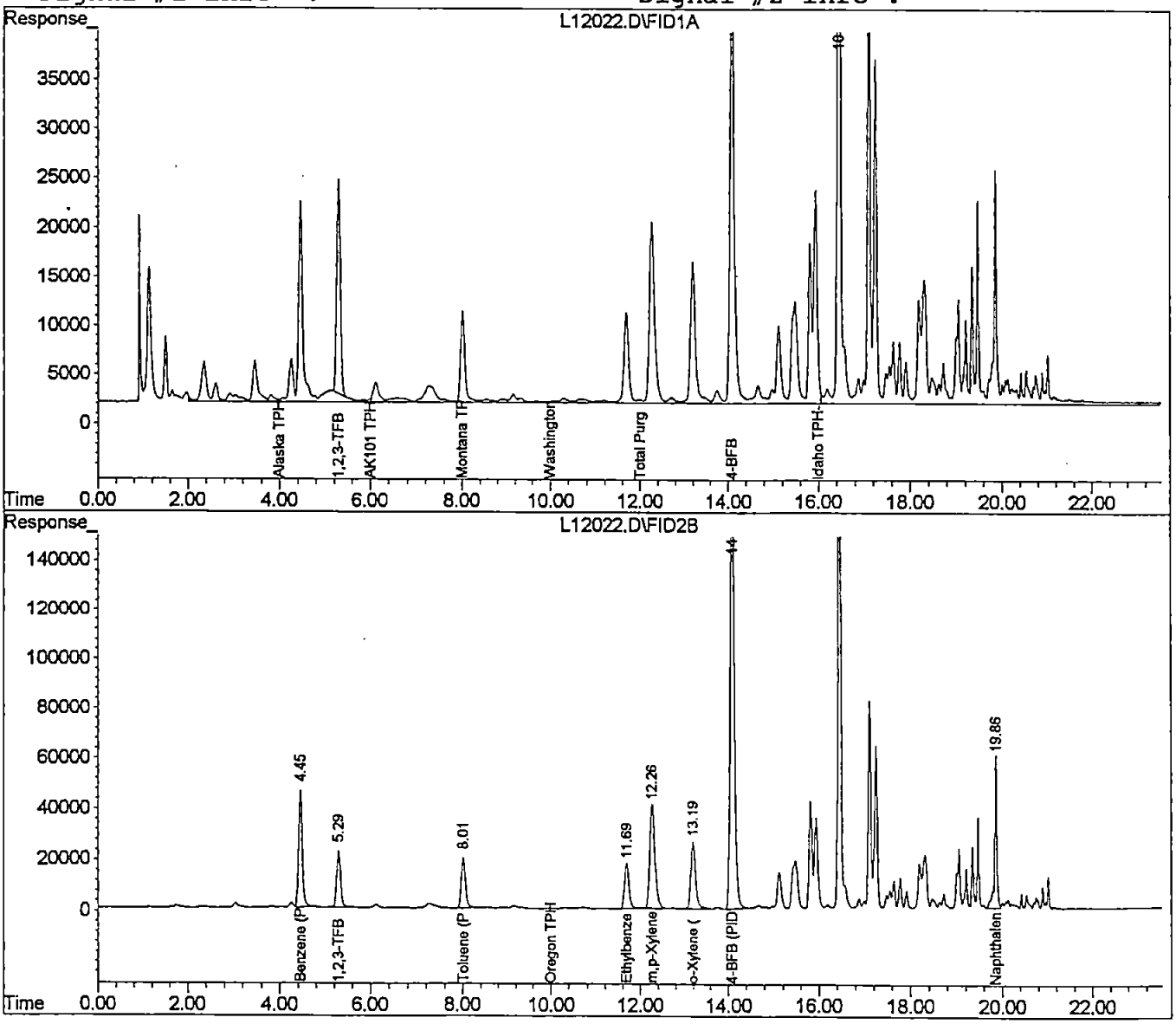
Vial: 22
Operator: lac
Inst : GC #4
Multiplr: 1.00

Quant Time: Dec 12 16:19 1997 Quant Results File: TPHG.RES

Quant Method : C:\HPCHEM\2\METHODS\TPHG.M (Chemstation Integrator)
Title : TPH-G Water Method
Last Update : Tue Dec 02 07:57:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : TPHG.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :

Signal #2 Phase:
Signal #2 Info :

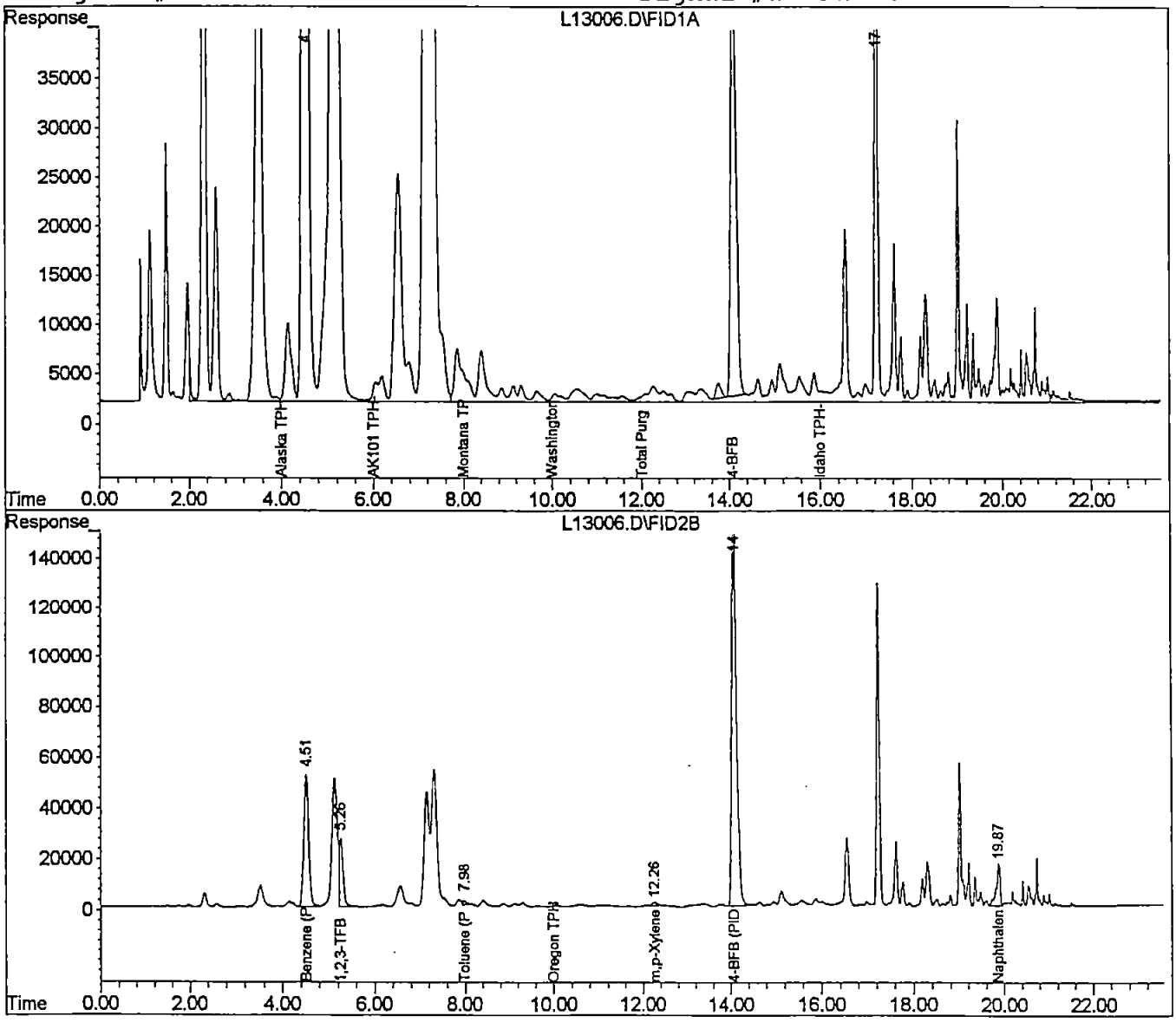


Data File : C:\HPCHEM\2\DATA\L13006.D\FID1A.CH Vial: 6
Acq On : 13 Dec 1997 12:04 pm Operator: lac
Sample : b712065-03 dup Inst : GC #4
Misc : 5 mL Multiplr: 1.00
IntFile : SURR.E

Data File : C:\HPCHEM\2\DATA\L13006.D\FID2B.CH Vial: 6
Acq On : 13 Dec 97 12:04 pm Operator: lac
Sample : b712065-03 dup Inst : GC #4
Misc : 5 mL Multiplr: 1.00
IntFile : SURR2.E
Quant Time: Dec 13 12:28 1997 Quant Results File: TPHG.RES

Quant Method : C:\HPCHEM\2\METHODS\TPHG.M (Chemstation Integrator)
Title : TPH-G Water Method
Last Update : Tue Dec 02 07:57:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : TPHG.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data File : C:\HPCHEM\2\DATA\L12024.D\FID1A.CH
Acq On : 12 Dec 1997 4:55 pm
Sample : b712065-04 tb
Misc : 5 mL
IntFile : SURR.E

Vial: 24
Operator: lac
Inst : GC #4
Multiplr: 1.00

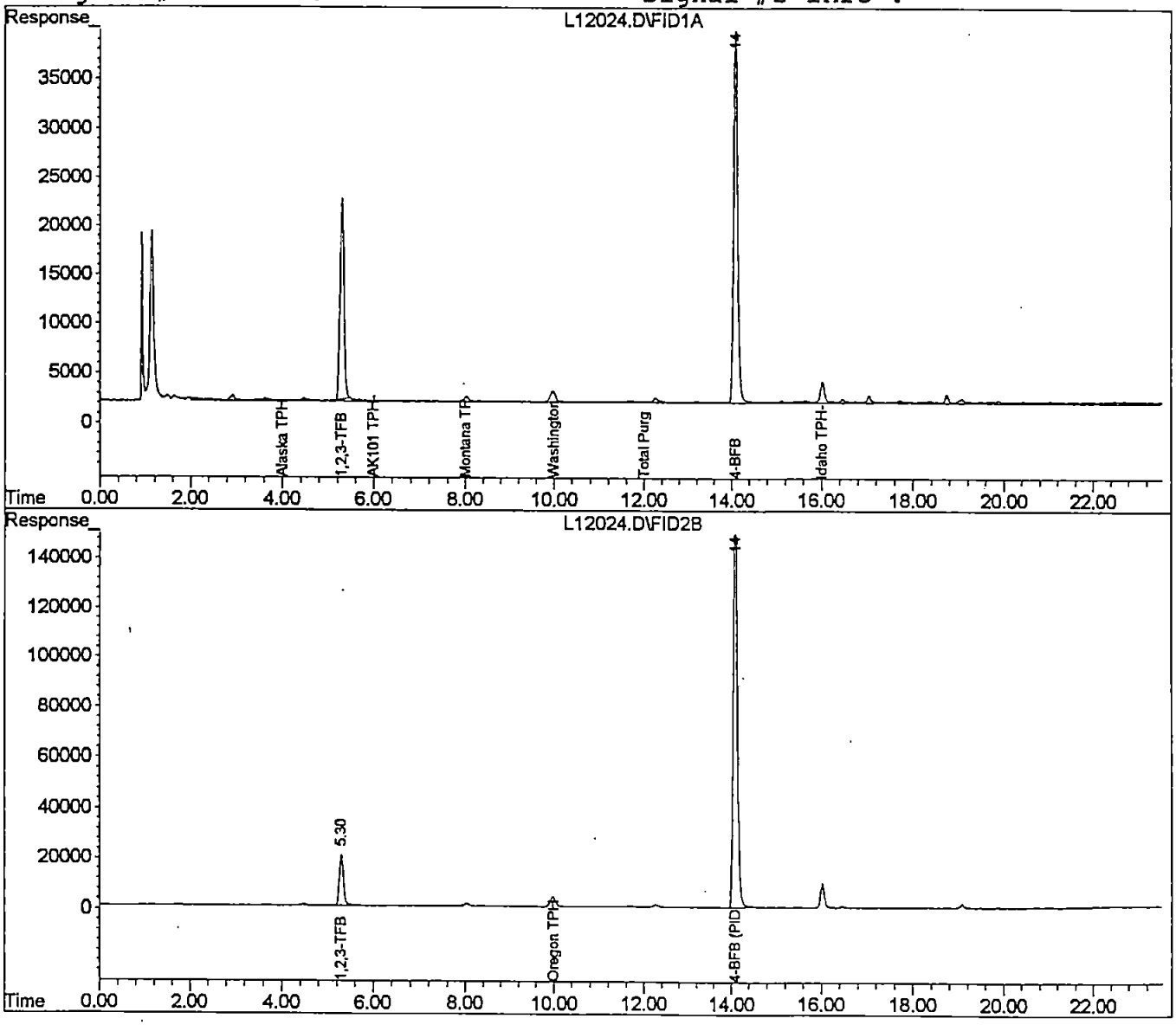
Data File : C:\HPCHEM\2\DATA\L12024.D\FID2B.CH
Acq On : 12 Dec 97 4:55 pm
Sample : b712065-04 tb
Misc : 5 mL
IntFile : SURR2.E

Vial: 24
Operator: lac
Inst : GC #4
Multiplr: 1.00

Quant Time: Dec 12 17:19 1997 Quant Results File: TPHG.RES

Quant Method : C:\HPCHEM\2\METHODS\TPHG.M (Chemstation Integrator)
Title : TPH-G Water Method
Last Update : Tue Dec 02 07:57:55 1997
Response via : Multiple Level Calibration
DataAcq Meth : TPHG.M

Volume Inj. :
Signal #1 Phase :
Signal #1 Info :
Signal #2 Phase:
Signal #2 Info :



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9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

CHEVRON U.S.A., Inc. CHAIN OF CUSTODY REPORT B712065

CHEVRON INFORMATION

CHEVRON Facility #: 9-9481
Facility Address: 647 140th Ave NE
City, State, ZIP: Bellevue, WA
CHEVRON Contact Name: Dan Bryant
CHEVRON Telephone #:
SC# ZZ02870 CE# 75100100
Laboratory Release #: 9045715

CONSULTANT INFORMATION

Name: Pacific Environmental Group Consultant Project #: 520-426.2B
Address: 4020 148th Ave NE, Suite B
Redmond, WA
Phone: 425-869-5099 Fax: 425-869-5639
Project Manager: John Blough Consultant Project #:
Sample Collection by: KCM Airbill #:

Turnaround Times

Standard Analyses (DAYS): 10
RUSH Analyses (HOURS): 24 48
RUSH Analyses (DAYS): 5

O Oregon X Washington O Alaska O Other - Hydrocarbon Methods

SAMPLE IDENTIFICATION	SAMPLING DATE / TIME	MATRIX (W,S,O,A)	# OF CONTAINERS	TPH-HCID	TPH-Gas	BTEX (EPA 8020 Mod.)	TPH-Gas + BTEX	TPH-Diesel	TPH-Diesel Extended	TPH-418.1	Halogen. Volatiles (EPA 8010)	Aromatic Volatiles (EPA 8020)	Pesticides/PCBs or PCBs Only	GC/MS Volatiles (EPA 8240/8260)	GC/MS SemiVols. (EPA 8270)	PAHs by HPLC (EPA 8310)	Lead: Total or Dissolved	TCLP Metals (8)	NCA Sample Number	REMARKS
1. MW-1	12/1/97 17:07	W	2*				✓												B712065-01	
2. MW-2	16:40						✓												-02	
3. MW-3	16:20						✓												-03	
4. TB							✓												-04	
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				

Relinquished by:	Firm:	Date & Time	Received by:	Firm:	Date & Time
1. [signature]	PEG	12/1/97	[signature]	NCA	12/3/97 12:48
2. [signature]	NCA	12/3/97 13:50	[signature]	NCA	12/3/97 1350
3.					

REPORTS:
Level 1
Level 2

SAMPLE PRESERVATION (Iced)
Yes
No

Fax Copy of Lab Report & COC to CHEVRON: Yes No

Page ____ of ____
Rev. 1.0 3/95

Distribution: White - Laboratory Yellow - Consultant Photocopy - CHEVRON

11.5 W/O

PACIFIC
ENVIRONMENTAL
GROUP, INC.

ENTERED
5-14-98
cp

2622

RECEIVED
MAR 02 1998
DEPT. OF ECOLOGY

Date: February 27, 1998
Project: 520-126.2B

To: Mr. Ben Forson
Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008

We have enclosed:

Copies	Description
1	Quarterly Monitoring and Sampling Activities
	Former Chevron Service Station 9-9481
	647 - 140th Avenue Northeast
	Bellevue, Washington

For your:
- [x] Use
- [ ] Approval
- [ ] Review
- [ ] Information

Comments:

MM

Matt Miller

4020 148th Avenue N.E., Suite B, Redmond, Washington 98052 (425) 869-5099 FAX (425) 869-5639

.te Name: Chevron #9-9481

ic. #: 2622 Date of Report: 2-27-98

ounty: King Date Report Rec'd: 3-2-98

eviewed by: Ben Amoah-Forson

:omments (please include: free prod., tank info., contaminant migration, GW depth & flow, conc. trends, PCS treated?):

MW-2, & 3 Thru
benzene levels above
'D'

interim