

Seattle Housing Authority Maint Kg Lot (Former Chevron) SIT 233 LUST # 583079

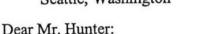
> 1200-112th Avenue N.E. Suite C-146 Bellevue, Washington 98004-3769 425/450-7726 FAX: 425/450-8837

July 17, 2001 Project CW29335

Mr. Brett Hunter Chevron Products Company 6001 Bollinger Canyon Rd. Building V, Room 1144 San Ramon, CA 94583

Re: Environmental Investigation Chevron Service Station 20-9335 1225 North 45th Street Seattle, Washington RECEIVED

JUL 1 9 2001 DEPT OF ECOLOGY



This letter presents the results of an environmental investigation conducted by Delta Environmental Consultants, Inc. (Delta) at former Chevron Service Station 20-9335, located at the address referenced above (Figure 1). The purpose of this investigation was to assess and document the soil and groundwater quality with respect to petroleum hydrocarbons at the site.

The scope of work for the environmental investigation was performed between November 10th 2000 and February 8th 2001 and consisted of the following tasks:

- Prepare the Site Safety Plan.
- Drill five exploratory soil borings (MW-1 through MW-5).
- Install a two-inch diameter groundwater monitoring well in each of the soil borings (MW-1 through MW-5).
- Collect soil samples from selected intervals in the soil borings.
- Field screen soil samples using a photo-ionization detector (PID).
- Develop the newly installed wells.
- Survey the elevations of the newly installed wells with respect to an arbitrary site datum established at the site.
- Collect groundwater samples from the newly installed wells

- Submit soil and groundwater samples and appropriate documentation to a Chevron approved laboratory for analysis.
- Dispose of soil cuttings at a state approved soil disposal facility in accordance with current environmental regulatory laws.

SITE DESCRIPTION

The former Chevron Service Station is now a parking lot for the Seattle Housing Authority's maintenance shop located at 1225 North 45th Street in Seattle, Washington. Surrounding the property are commercial retail buildings and the Seattle Housing Authority Maintenance facility. The entire site is asphalt except for a 3 foot strip planter running along the west side of the property.

SOIL BORING INSTALLATION AND SAMPLING

Five exploratory soil borings (MW-1 through MW-5) were drilled by Cascade Drilling, Inc. (Cascade) of Woodinville, Washington on November 10 and 11, 2000. The borings were drilled to total depths ranging from 42 to 45 feet below grade. The soil borings were drilled using a hollow-stem auger drill rig, the soil borings were logged by a Delta Environmental engineer using the Unified Soil Classification System. Soil samples were collected in 5-foot intervals to the total depths explored in the borings. Soil samples for chemical analysis were retained in laboratory-supplied glass jars with Teflon® lined lids. The soil samples were placed on ice for transport and submitted to North Creek Analytical, Inc. (NCA) in Bothell, Washington for chemical analyses. Sample preservation techniques are described in Attachment A.

Soil samples were field screened for the presence of hydrocarbons using a Thermo Environmental Instruments Inc. Model 580 B photo-ionization detector (PID) with a 10.0 electron volt (eV) lamp. Field screening methodology is described in Attachment A. PID results for soil samples in boring MW-1 did not exceed detectable levels. Detected PID readings in boringS MW-2 through MW-5 ranged from 2.0 parts per million (ppm) to 8.3 ppm. The results of this field screening are recorded on the soil boring logs included in Attachment B. It should be noted that the PID measurements are considered semi-quantitative data since the instrument detects all organic compounds with ionization potentials less than 10 eV. The initial drilling of MW-2 was attempted approximately 10 feet to the north of its final location shown on Figure 1. Refusal was encountered in the initial boring (SB-7) at approximately 8 feet below grade requiring the boring to be moved to it's final location.

MONITORING WELL INSTALLATION

The five exploratory soil borings were converted to groundwater monitoring wells (MW-1 through MW-5) by the installation of 2-inch diameter, schedule 40 PVC casing with 0.010 and 0.020 inch factory slotted screen. The well screen was placed across the saturated zone in each well and extended approximately 10 feet up from the bottom of each well. The annular space of

each well was packed with a graded 2x12 silica sand. The sand pack was placed across the entire screened interval, extending approximately two feet above the top of the screens. The annular space of each well was then sealed with hydrated bentonite chips to approximately two feet below grade. A plug-type locking device and waterproof monument set in concrete were installed at the top of each monitoring well. Refer to the boring logs in Attachment B for specific information on well construction.

The elevations of the wells were surveyed to the nearest 0.01 foot with respect to an arbitrary datum established for the site on November 16, 2000. A survey reference mark was scribed on the lip of each monitoring well casing with a permanent marker. The arbitrary datum established at the site was assigned an elevation of 100.00 feet. The survey field data sheet is presented in Attachment B. The surveyed elevations are presented in Table 1 of the Gettler-Ryan Inc. (GR) report included in Attachment C.

MONITORING WELL DEVELOPMENT AND SAMPLING

Monitoring wells MW-1 through MW-5 were developed on October 11, 2000 by bailing. Well development procedures are presented in Attachment A. The well development field data sheet is included in Attachment B.

GROUNDWATER SAMPLING

Water level measurements and groundwater sampling were performed on December 16, 2000 by a representative of GR. The GR Groundwater Monitoring Report is presented in Attachment C.

ANALYTICAL PARAMETERS

Soil and groundwater samples were analyzed for one or more of the following parameters:

PARAMETER	METHOD
Total Petroleum Hydrocarbons as gasoline	Northwest Method NWTPH-gasoline
Total Petroleum Hydrocarbons as diesel and oil (soil)	Northwest Method NWTPH-diesel extended with Acid/Silica Gel Clean-up
Total Petroleum Hydrocarbons as diesel and oil (groundwater)	Washington Method WTPH-diesel extended with Acid/Silica Gel Clean-up
Benzene, toluene, ethylbenzene, and xylenes (BTEX compounds)	EPA Method 8021B
Methyl tert-butyl ether	EPA Method 8021B (MTBE)

Total Lead (Stockpile soil)

EPA 6000/7000 Series Methods

Dissolved Lead (groundwater)

EPA 6000/7000 Series Methods

The soil and groundwater samples were analyzed by North Creek Analytical, Inc., of Bothell, Washington.

SOIL ANALYTICAL RESULTS

Concentrations of TPH-Gasoline were not detected above laboratory reporting limits in the soil samples submitted for analysis from borings MW-1, MW-3 and MW-4. Concentrations of TPH-gasoline were detected in the soil sample from MW-2 at 430 milligrams per kilograms (mg/kg), and at 9.41 mg/kg in boring MW-5. BTEX compounds were not detected above laboratory reporting limits in soil samples from borings MW-1 through MW-4. Concentrations of xylenes in MW-5 were detected at 0.328 mg/kg. Concentrations of TPH-diesel and oil were not detected in soil samples from MW-1, MW-3, MW-4, and MW-5. Concentrations of TPH-diesel were detected in boring MW-2 at 94.1 mg/kg. Soil sample analytical results are presented in Table 2. Laboratory methods, analytical reports, and chain-of-custody documentation are contained in Attachment D.

GROUNDWATER ANALYTICAL RESULTS

Concentrations of TPH-gasoline, TPH-diesel, BTEX, and lead compounds were detected above laboratory reporting limits in the groundwater samples. TPH-gasoline concentrations ranged from non-detect to 146,000 parts per billion (ppb). TPH-diesel concentrations ranged from non-detect to 5,080 ppb. Detected concentrations of BTEX compounds ranged from 0.612 ppb to 24,100 ppb. Concentrations of dissolved lead ranged from non-detectable levels to 20 ppb. Groundwater sample analytical results are presented in Table 1 of the GR report in Attachment-C.

SUBSURFACE CONDITIONS

Soils encountered in the investigation consisted predominantly of dense to very dense silty sand and sand. PID measurements in the soil samples were screened at levels ranging from 0 ppm to 83 ppm.

Depth to groundwater was measured in Wells MW-1 through MW-5 on December 16, 2000. Depth to groundwater in wells MW-1 through MW-5 on this date ranged between 35.91 feet and 37.18 feet below top of well casing. The groundwater elevations are based on an arbitrary project datum of 100.00 feet. Groundwater elevation contours are presented on Figure 1 of the GR Report in Attachment C.

FINDINGS AND CONCLUSIONS

Groundwater elevations on December 16, 2000 ranged from 62.04 feet to 62.37 feet. The inferred groundwater migration direction on this date was towards the south with a gradient of 0.003 measured between MW-1 and MW-3.

Concentrations of TPH-gasoline above the Washington State Model Toxics Control Act (MTCA) Method A cleanup level were detected in the 35 foot soil sample collected from boring MW-2. The drill cuttings were drummed on site, then transported to CSR of Everett for disposal on February 8th, 2001.

Concentrations of TPH-gasoline and one or more BTEX compounds above the MTCA Method A cleanup levels were detected in groundwater from wells MW-2, MW-4 and MW-5. Concentrations of TPH-diesel at or above the MTCA Method A cleanup level were detected in wells MW-2 and MW-5.

Delta appreciates this opportunity to be of continuing service. If you have any questions regarding the contents of this report, please call.

Sincerely,

Delta Environmental Consultants, Inc.

Shawn Madison

Environmental Engineer

Matthew Miller

Project Manager

Attachments: Table 1 - Soil Analytical Results

Figure 1 - Site Map

Attachment A - Investigative Procedures

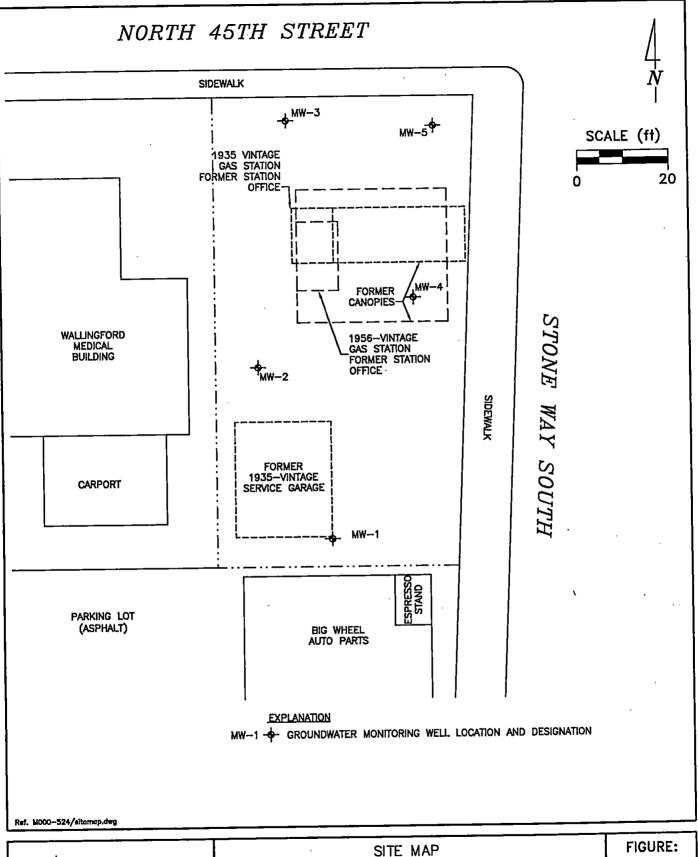
Attachment B - Boring Logs/Field Data Sheets

Attachment C - Gettler-Ryan Groundwater Monitoring and Sampling Report

Attachment D - Laboratory Analytical Methods and Reports

Chain-of-Custody Documentation

cc: - Mr. John Wietfield, Washington State Department of Ecology Mr. Larry Hard, Seattle Housing Authority



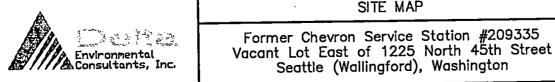


FIGURE: 1 PROJECT: M000-524

TABLE 1 SOIL ANALYTICAL RESULTS

Chevron Service Station 20-9335 1225 N. 45th. Street Seattle, Washington

Sample I.D.	Date	TPH-Gasoline (mg/kg)	TPH-Diesel (mg/kg)	TPH-Oil (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total Lead (mg/kg)
MW-1-35	10/10/00	ND	ND ·	ND	ND	ND	ND	ND	NA
MW-2-35	10/11/00	430	94.1	ND	ND	ND	ND	ND	NA
MW-3-35	10/10/00	ND	ND	ND	ND	ND	ND	ND	NA
MW-4-35	10/11/00	ND	ND	ND	ND	ND	ND	ND	NA
MW-5-5	10/11/00	ND	ND	ND	ND	ND	ND	ND	NA
MW-5-35	10/11/00	9.41	ND	ND	ND	ND	ND	0.328	NA
SB-7	10/11/00	ND	NA	NA	ND	0.0767	ND	0.19	NA
Stockpile	10/11/00	ND	ND	ND	ND	ND	ND	ND	6.68
MTCA Method A	Cleanup Levels:	100	200	200	0.5	40	20	20	250
Laboratory Repo	rting Limits:	5.00	10	25	0.0500	0.05-0.57	0.05 -2.45	0.10 -7.65	0.331

Concentrations in milligrams per kilograms (mg/kg)

ND = Not detected at the laboratory reporting limits

NA = Not Analyzed

Boring locations are shown on Figure 1

Certified Analytical Results are attached

TPH as Gasoline - Analysis by Northwest Method NWTPH-G

TPH as Diesel and oil - Analysis by Northwest Method NWTPH-D (extended) with Silica Gel Clean-up

BTEX Compounds - Analysis by EPA Method 8021B

Total Lead - Analysis by EPA 6000/7000 Series Method

ATTACHMENT A INVESTIGATIVE PROCEDURES

ATTACHMENT A

Exploratory Boring Installation

The five soil borings were drilled on November 10 and 11, 2000 by Cascade Drilling Inc., of Woodinville, Washington. The borings were drilled using eight-inch diameter hollow-stem auger drilling equipment. The borings were logged by a Delta environmental engineer using the Unified Soil Classification System and standard geologic techniques. Boring logs are presented in Attachment B. Soil samples for logging and chemical analysis were collected at five-foot depth intervals by advancing a 2-inch inside diameter split-spoon sampler into undisturbed soil beyond the tip of the auger. The sampler was driven a maximum of 18 inches using a 140-pound hammer with a 30-inch drop. Soil samples for chemical analysis were retained in laboratory-supplied glass jars with Teflon® lined lids. The samples were placed on ice for transport to the laboratory accompanied by chain-of-custody documentation presented in Attachment D. The split-spoon sampler was cleaned by washing in a detergent solution followed by a clean water rinse and distilled water rinse. All drilling equipment was steam-cleaned between each boring location.

Organic Vapor Screening

Soil samples were screened in the field for ionizable organic compounds using a Thermo Environmental Instruments Model 580B photo-ionization detector with a 10 eV light source. The test procedure involved collecting a discrete soil sample from the excavation or stockpiles, and placing it in a resealable bag. The bag was allowed to warm to ambient temperature for approximately twenty minutes, then the bag was pierced and the head-space within the bag was tested for total organic vapor, measured in parts per million, (ppm; volume/volume). The detection limit of the instrument ranges from 0.1 ppm to 2,000 ppm. It should be noted that the PID measurements are considered semi-quantitative data since the instrument detects all organic compounds with ionization potentials less than 10 electron volts (eV).

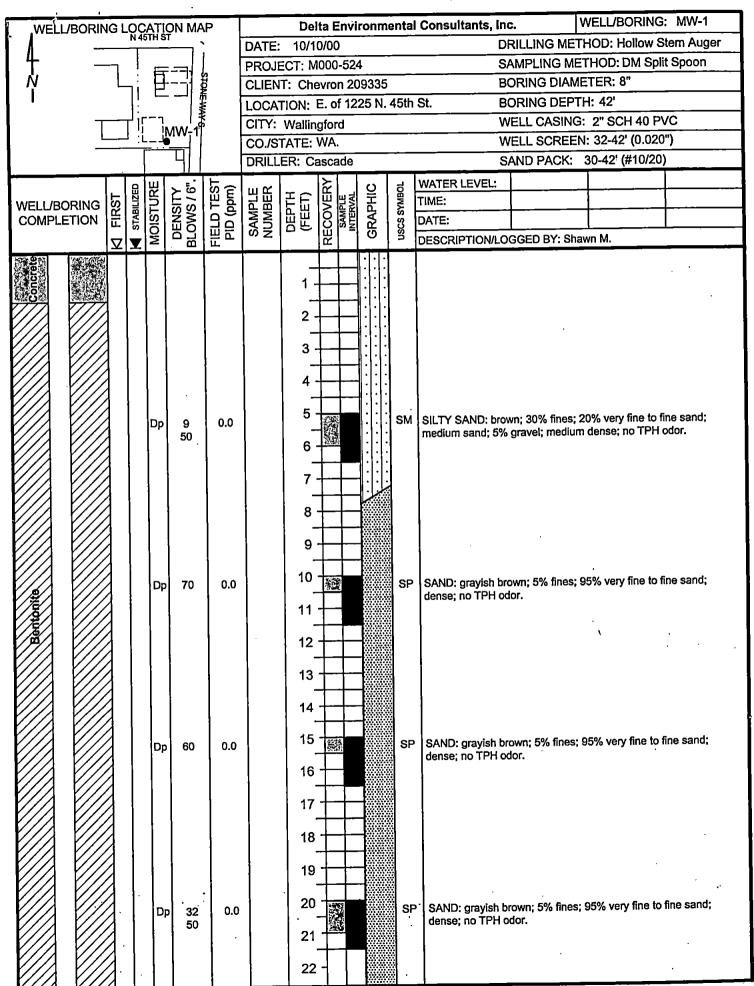
Well Development

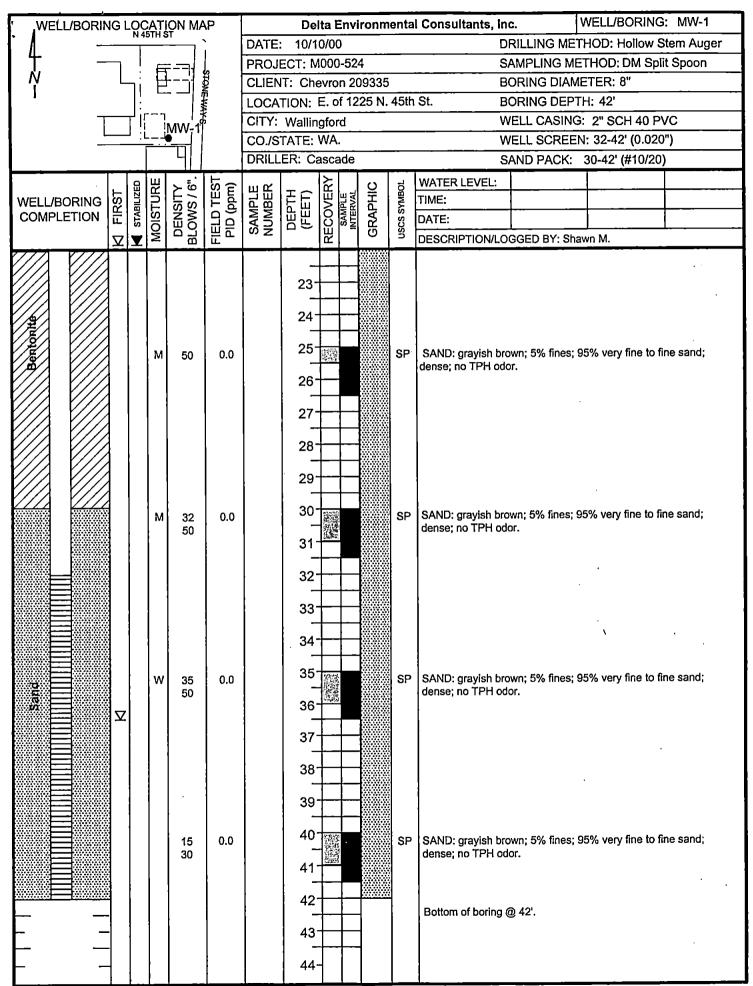
The development procedure for groundwater monitoring wells MW-1 through MW-5 consisted of lowering a disposable bailer through the well until striking the surface of the water, and continuing to lower the bailer to the bottom of the well. The action of the bailer produces an outward surge of water that is forced from the borehole through the well screen and into the formation. This tends to break up any bridging that has developed within the formation. As the bailer is repeatedly pushed up and down through the well, the surging action created in the borehole causes the particulate matter outside the well intake to flow into the well. During this process, the water is also removed from the well with the bailer. Continued bailing removes the particulate matter from the well. The bailing procedure is repeated until approximately 10 casing volumes of water is removed. Groundwater was treated on site by filtering the water through granular activated carbon, and subsequently discharged. Well development data sheets are included in Attachment B.

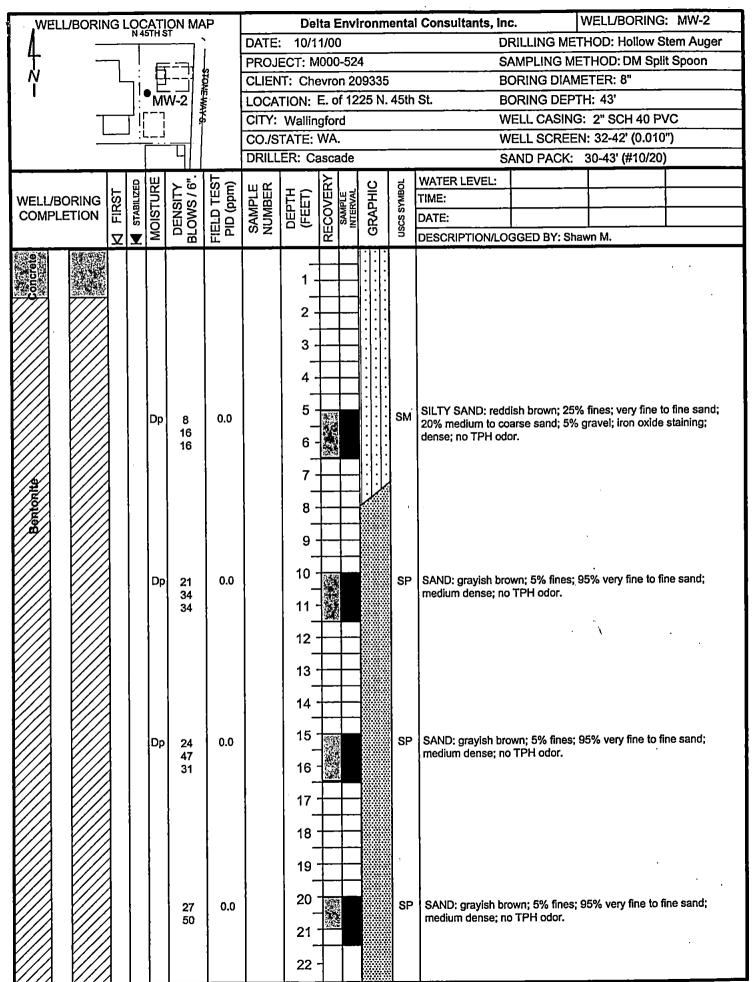
Groundwater Sampling

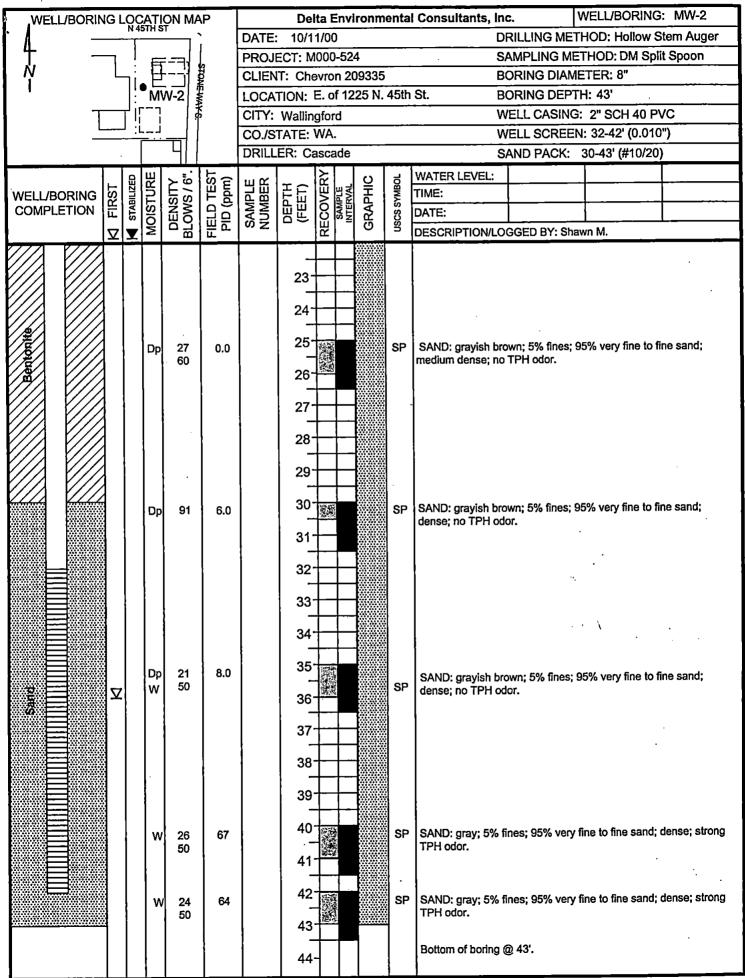
The groundwater sampling procedure consisted of first measuring the water level and visually checking for the presence of separate-phase hydrocarbons and sheens using a clear, single-use, disposable polyethylene bailer. Each well was then purged of a minimum of three casing volumes of water (or until dry) by bailing. Groundwater samples were collected using disposable polyethylene bailers. The samples were placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to North Creek Analytical Inc. laboratory in Bothell, Washington. Purge water was treated on site by filtering the water through granular activated carbon, and subsequently discharged. Field data sheets are presented in Attachment B. Chain-of-Custody documentation is presented in Attachment C.

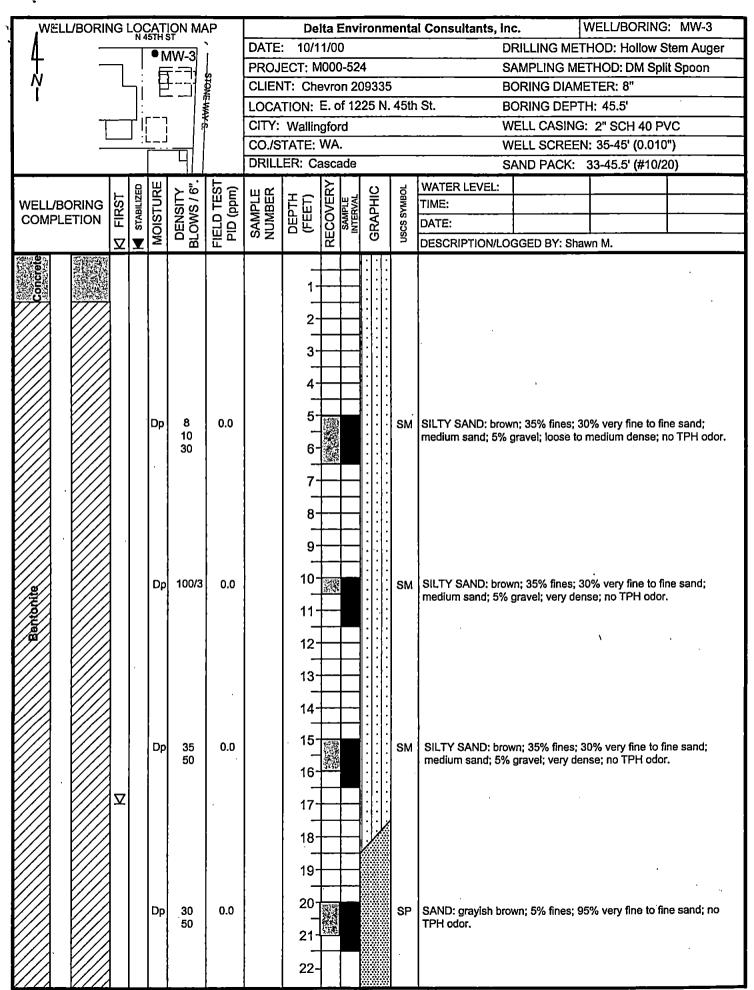
ATTACHMENT B BORING LOGS FIELD DATA SHEETS







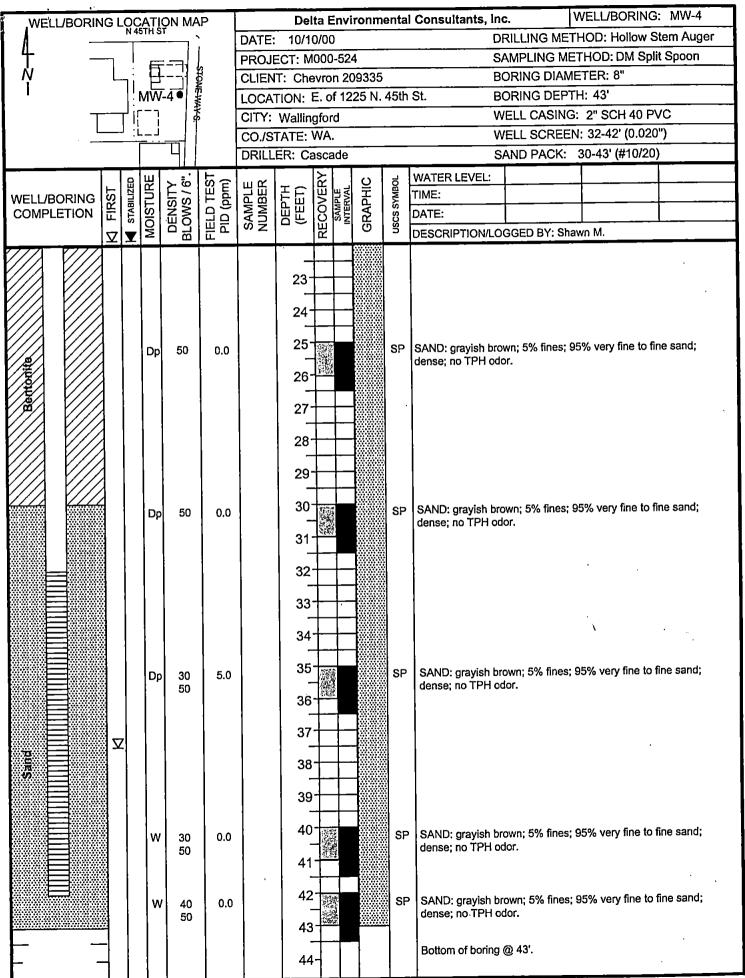


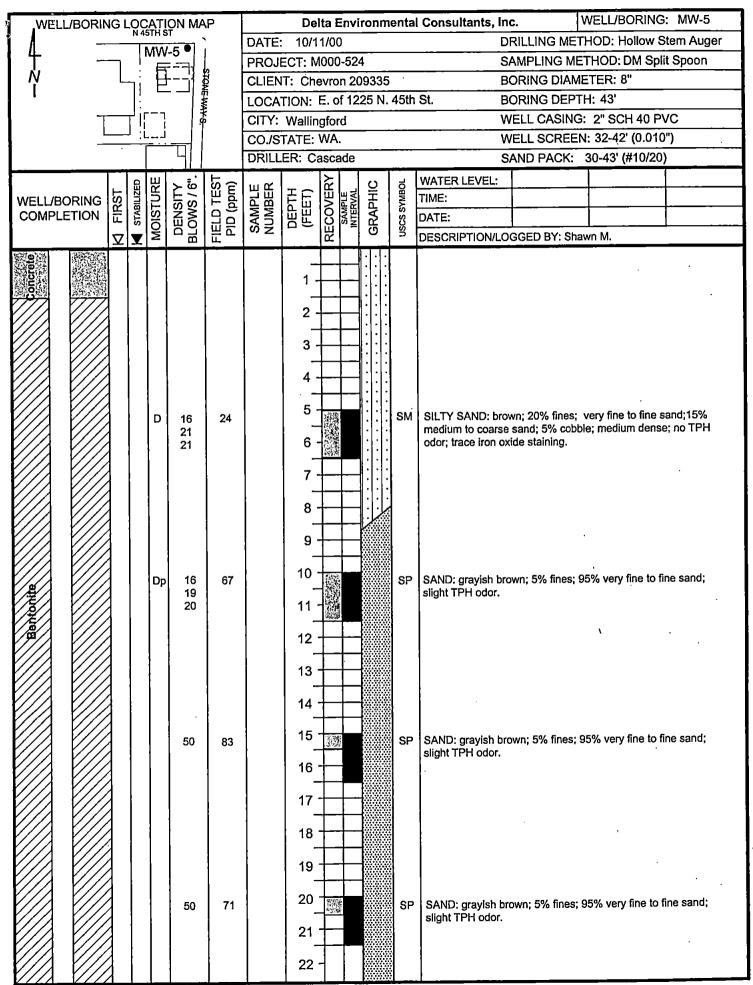


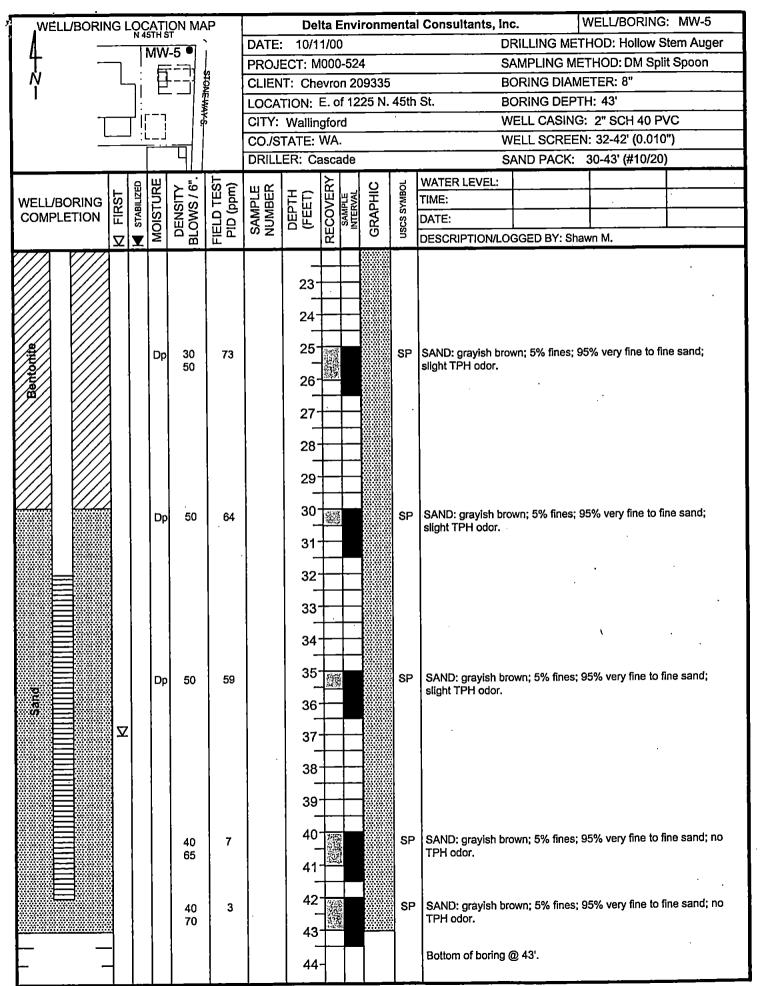
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MONITORING WELL SURVEY FORM

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LOCATION	ELEVATION	TOP	MIDDLE	BOTTOM	CHE	CK .
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MW-I	97,945	6.700	6.385	6,070	0.315	0.315
MW-2	98.700	5,780	5.630	5.480	0.150	0.150
Mw-3	98.755	5 680	5.575	5 465	0.105	0.105
MW-4	98.515	5.970	5.815	5.660	0.155	D. 155
MW-5	99.42	5.100	4910	4,720	0.190	0190
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WELL DEVELOPMENT DATA SHEETS

Project #: M600 542

Field Dates: 10/11/00

Location: 90-9335 SEMME

Client: Chevron

Field Tech: Snawn M.

Well	Date	DTW (TOC)	TD (TOC)	Purge Vol. (10 casing volumes)	Actual Purge Volume (gal)	Development Method:	Comments: (odor, sheen, clarity)
n&-1_	10-11-00	3ŧ.5	42	7,5 12,75	Q.0		
1W-2	10-11-00	34,5	42	75 12.75	12,0		strong TPH ador 1/16" Sheen
MW - 3	10-11-00	34.0	45	9 15,3	12.0		
MW- 4	10-11-00	35	42	7 1.9	12.0		Le de stantage
	10-11-00	345	42	76 12,75	6.5		well Rom dry, Stiong +p4 odor,
				<u>'</u>			
						·	
				<u> </u>			,
	-						
 	- 	1					

	CI CI II	
•	CSR	
	Associated Plant # Ticket #	
Customer #	Sold To 1876 Date 5009274	
	OPHSVRONDINGS.	
P. O. #	Due Time	
Zone 10ne	Everett boil remediation	
	7:13:46 AN	
Order #	Truck #	
	And the state of t	ξ Σ.ι.
maj kunt	THE STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET S	-
200 67.	HANDAL Gross 37,360 Lb 16,946 Kg	
Kanalini	24, 120 Lb 10, 941 Kg	
7.000 and		
6. 52 Ton	6.62 Ton	
marin. Sagara.	e manda de la martina de la companya	
ENERION:	Ben interes and interesting the property of the property of the constraint of the co	學
+ 13. W.	PRORENTY CAMAGE RELEASE (TO BE SKINED IF DELIVERY IS TO BE MADE INSIDE CURB LINE) Dear Customer. The order of this truck is preserving this RELEASE to you for your indicator has the size and weight of his truck in preserving this RELEASE to you for your indicator in this bodd where you decide it, it is bodd where you decide it, it is our wish to ne	*
The undersigned patterney's fees, inc	Dest Customer. The other of this truck is presenting this RELEASE to you for your adjusture is of the oction that the daw and weight of his truck in presenting this RELEASE to you for your adjusture is not the oction that the daw and weight of his promises to pay all coetis, including reasonable or the promises and of the promises are the property is the promises are the property is the first bad where you dealed it, this load where you dealed it, it is load where you have you what, it is not that the object of the promises are your appears of the wholes of his vehicle so that have not putter street. If the home you appear is the wholes of his vehicle so that have not putter street. Further, or the promises are the wholes are the dealers of the service in the wholes in the work of the provision to make many that are the putter street. Further, or the promises are the dealers of the service in the work of the provision that we want to be a property in the provision that we want to be a property to the provision that we want to be a property in the provision that we want to be a property in the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to the provision that we want to be a provision to	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
All accounts not p at the rate of 18%	paid within 30 days of dollvery will bear interest: per annum.	
Not Responsible Claim Allowed Uni	for Reactive Aggregate or Color Quality. No 🐪 promet, say themating below glockates that thave to all the relative valuebors restrict And Supplies Made at Time Material & Delivered. 1985—1997. Biol of the bronderous Tob are considered a professor strong bronderous.	I
A \$40.00 Service collected on all Re	Charge and Loss of the Cash Discount will be	
	X CUSTOMER SIGNATURE	

WYSER CONST

CUSTOMER COPY

ATTACHMENT C GROUNDWATER MONITORING AND SAMPLING REPORT



January 26, 2001 Job #386750

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

Re:

Event of December 16, 2000

Groundwater Monitoring & Sampling Report Former Chevron Service Station #20-9335

1225 North 45th Street Seattle, Washington

Dear Mr. Hunter:

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

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

Groundwater samples were collected from the monitoring wells 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 for this event are attached. The samples were analyzed by North Creek Analytical, Inc. Analytical results are presented in Table 1 and a Concentration Map is included as Figure 2. The chain of custody document and laboratory analytical reports are attached.

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

Sincerely.

Deanna L. Harding

Project Coordinator

Stephen J. Carter Senior Geologist

Figure 1:

Potentiometric Map

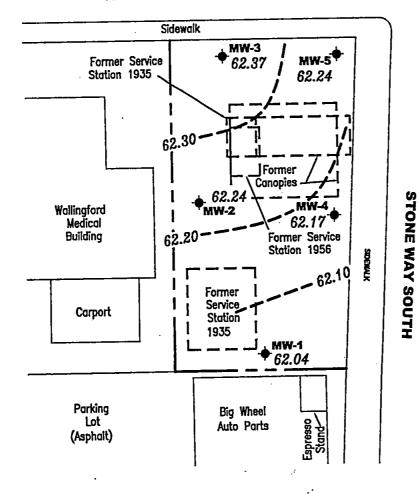
Figure 2: Table 1:

Concentration Map Groundwater Monitoring Data and Analytical Results Standard Operating Procedure - Groundwater Sampling

Attachments:

Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

NORTH 45TH STREET



EXPLANATION

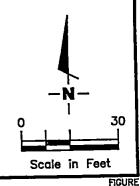
Groundwater monitoring well

99.99 Groundwater elevation in feet referenced to an arbitary datum

Groundwater elevation contour, dashed where inferred.

77

Approximate groundwater flow direction at a gradient of 0.003 to 0.004 FL/FL



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

Former Chevron Service Station #20-9335 1225 North 45th Street

Seattle, Washington

PROJECT NUMBER 386750

REVIEWED BY

DATE

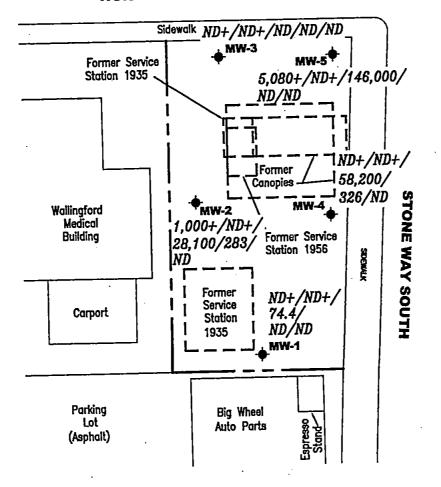
December 16, 2000

FIGURE

REVISED DATE

FILE NAME: P:\EMMRO\CHEVRON\209335\Q01-20-9335.DWG | Loyout Tob: Pot4

NORTH 45TH STREET



EXPLANATION

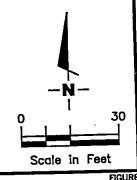
Groundwater monitoring well

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

ND Not Detected

REVISED DATE

+ w/silica gel clean-up



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



PROJECT NUMBER .

CONCENTRATION MAP

Former Chevron Service Station #20-9335 1225 North 45th Street

Seattle, Washington

DATE

December 16, 2000

2

386750
FILE NAME: P:\EMMRO\CHEVRON\20-9335\Q01-20-9335.DWG | Loyout Tab: Con4

REVIEWED BY

Table 1 Groundwater Monitoring Data and Analytical Results Former Chevron Service Station # 20-9335

Former Chevron Service Station # 20-93 1225 North 45th Street Seattle, Washington

WELL ID/	DATE	DTW (ft.)	GWE (ft.)	TPH-D (ppb)	TPH-O (<i>ppb</i>)	TPH-G (ppb)	В (ррв)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	D. Lead (ppm)
MW-1	10/11/00 ¹	34.50	63.45				ND					
97.95	1 2/16/00	35.91	62.04	ND ^{2,3}	ND ^{2,3}	74.4		ND	ND	ND	ND	ND ⁴
MW-2	10/11/00 ¹	34,50	64.20									
98.70	12/16/00	36,46	62.24	1,000³	ND ³	28,100	283	2,560	693	4,020	ND²	0.00194 ⁴
MW-3	10/11/00 ¹	34.00	64.76	ND ³								
98.76	12/16/00	36.39	62.37		ND ³	ND	ND	0.612	ND	1.95	ND	ND ⁴
MW-4 98.52	10/11/00 ¹ 12/16/00	35.00 36.35	63.52 62.17	:- ND ^{2,3}	ND ^{2,3}	 58,200	 326	 5,520	 1,430	 8,520	ND²	 0.0123 ⁴
MW-5	10/11/00 ¹	34.50	64.92		ND ³			-				
99.42	1 2/16/00	37.18	62.24	5,080 ³		146,000	ND²	15,100	4,160	24,100	ND²	0.0200 ⁴

Table 1

Groundwater Monitoring Data and Analytical Results Former Chevron Service Station # 20-9335

1225 North 45th Street

Seattle, 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)	
Trip Blank TB-LB	12/16/00		`		-	ND	ND	ND	ND	ND.	ND .	

				_					
	TPH-D	ТРН-О	TPH-G	В	T	E	Х	MTBE	D. Lead
		750	50.0	0.500	0,500	0.500	1.00	5.00	0.00100
Current Laboratory Reporting Limits:			1,000	5.0	40	30	20		
MTCA Method A Cleanup Levels:		1,000 + Extended	1,000			nd EPA 8021			EPA 6020
Current Method:	WIPH-D	+ Extended						<u>=</u>	

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 20-9335 1225 North 45th Street Seattle, Washington

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to December 16, 2000, were compiled from reports prepared by Delta Environmental Consultants Inc.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-D = Total Petroleum Hydrocarbons as Diesel (Diesel Range Hydrocarbons)

TPH-O = Total Petroleum Hydrocarbons as Oil (Heavy Range Oil Hydrocarbons)

TPH-G = Total Petroleum Hydrocarbons as Gasoline (Gasoline Range Hydrocarbons)

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.

- Data provided by Delta Environmental Consultants, Inc.
- Detection limit raised. Refer to analytical reports.
- TPH-D and TPH-O with silica-gel cleanup.
- Filtered at the laboratory.

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.

WELL MONITORING/SAMPLING FIELD DATA SHEET

	•		FIELD DA	IN SILLE				
ient/ Cheu	ron			Job#:	38	36750 -16-00		
cility# 30-9	7335	1/3h C1			ia	-16-00		
ddress: 12-2	5 N. L	1Pm 24	<u></u>	Date:	12	١		
ity: <u>Scattle</u>	e, WA			Sample	r: <u> </u>			
.ty				·			<u> </u>	
	MW 1		Well Cond	ition:	ok_	·		<u></u>
Well ID				,		nount Bail	ed &	
ell Diameter	<u> </u>	<u>in</u>	Hydrocarb Thickness		(feet) (p	oduct/water): //	(Gallons)
otal Depth	42.00)ft.	Volume	2" = 0.17		3" == 0,38	4" : 12 " = 5.80	= 0.66
	35.9	<u> </u>	Factor (VI	.)	6" = 1.50			
epth to Water	<u> </u>	<u> </u>						3
•	6.00	X VF	17 -	X 3 (case vo	olume) = Es	timated Pur	je Volume:	3 (gal)
•				Sampling			_	•
Purge	Disposable Bailer	le Bailer		Equipment:		sable Bei	ler)	
Equipment:	Stack				Baile	r sure Bailer	•	
	Suction		•	•		Sample		
•	Grundfos	3			Othe	er:	_	
	Other: _			<u> </u>			•	
	1111	νη ·		ther Condition	$_{ns}$: χ	ain_		
Starting Time:	14,0		vvea	er Color: 1a	»~	•	Odor: 10	
Sampling Time:	<u>. 1451</u>	5	wat	iment Descrip	tion:			
Purging Flow Rat			om. Sed	es; Time:		 Volum	18:	(aal.
Did well de-wate	er? <u>10</u> 0		IT Y	35; 11116		-	•••	
		**	Conducth	vity Tempe	rature	D.O.	ORP (mV) .	. Alkalinity (ppm)
2	/olume (gal.)	pН	µmhos/c	· · ·	iC.	(w&T)	(mv).	
	(P=)		269	19:				٠
14:03		6.89		12.				
14:06	<u> </u>	6.86	<u> 261</u> 258		0			
14:09	_	6.85	. 200				-	·
	_3							
	_3							
					•			
	_3		LABORAŢ	ORY INFORMA	ATION	ATORY		YSES
SAMPLE ID	(#) - CO	NTAINER	LABORAT REFRIG. P	ORY INFORM/	ATION		TPH(G)/btex/	mtbe
	3 VO	NTAINER AVIAL	LABORAŢ	ORY INFORM/ RESERV. TYPE "	ATION		TPH(G)/btex/	mtbe
SAMPLE ID	3 VO	NTAINER AVIAL	LABORAT REFRIG. P	ORY INFORMA RESERV. TYPE "	ATION		TPH(G)/btex/	mtbe
SAMPLE ID	3 VO	NTAINER AVIAL	LABORAT REFRIG. P	ORY INFORM/ RESERV. TYPE "	ATION	· NCA	TPH(G)/btex/	mtbe
SAMPLE ID MW	3 VO	NTAINER AVIAL	LABORAT REFRIG. P	ORY INFORMA RESERV. TYPE "	ATION	· NCA	TPH(G)/btex/	mtbe
SAMPLE ID MW	3 VO	NTAINER AVIAL	LABORAT REFRIG. P	ORY INFORMA RESERV. TYPE "	ATION	· NCA	TPH(G)/btex/	mtbe

WELL MONITORING/SAMPLING FIFLD DATA SHEET

Client/ Che Facility# 1	0-9335			Job#: _	3867!				
Address: 1225 N. 45th St.				Date: 12-16-00					
City:Se	attle, WA			Sampler: _	BWN				
Well ID	E MM	We	II Condition	ok	•				
Well Diameter	2		drocarbon	Ø	Amount B	<i>x</i> ,	•		
Total Depth	42.00	<u>"</u>	ckness:	2" = 0.17	t) (product/wa 3° = 0.38		(Gallons) " = 0.66		
Depth to Water	21 41		actor (VF)	6" = 1.50 12" = 5.80					
	5,54	x vf 117	<u>- :9</u> x	3 (case volume)	= Estimated Pu	nge Volume: _	3 _{loal.}		
Purge Disposable Bailer Equipment: Bailer Stack Suction Grundfos Other:			Sampling Equipment: Disposable Ballar Bailer Pressure Bailer Grab Sample Other:						
		gom.	Weather Conditions: Rain Water Color: Jray Sediment Description: Volum						
Did well de-wa	ter?		If yes; Ti	me:	Volun	ne:	(gal.)		
Time	Volume pH (gal.)		ductivity nhos/cm	Temperature •F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)		
14:30	1 6.8	<u>z</u> <u>z</u>	81	12-5					
JH:33	2 6.8		76	12.4	· <u> </u>				
14:36	3 6,7	<u>9</u> · _]	171	<u> 13·1</u>					
									
	· · · · · · · · · · · · · · · · · · ·		RATORY IN	FORMATION Type LAE			YSES" "		
SAMPLE ID	(#) - CONTAINER	REFRIG.	HU.	SECOL		TPH(G)/btex/r			
4 MW	3 VOANTAL 1 Amber L	1	- MU 4U	. 5200	1 .	TPH (0)+			
4M7	1500m2 P		90		J	Dissolved			
	1 300.4								
COMMENTS:									

9/97-fieldst.fm

WELL MONITORING/SAMPLING FIELD DATA SHEET

•		1	FIELD DATA	SHEEI			_	
ent/ Chev	110 M	•		Job#:	386750			
					12-16-00			
Address: 1225 N. 45th St.				Date:	BMN			
ty: Seat	He, WK			Sampler:	BM10			
	•							
Well ID	MW 3	<u> </u>	Well Condition	: <u>or</u>			 ;	
/ell Diameter	3	In.	Hydrocarbon	Ø	Amount Baile (product/water)		(Gallons)	
ell Digitiotol	45.0	<u> </u>	Thickness:	2" = 0.17	 9° == 0.38	4" =	= 0.66	
otal Depth			Volume Factor (VF)	2" = 0.17		2" = 5.80		
epth to Water	- 36-		·				4 .	
·.	8.0	S X VF	17 - 1.46	X 3 (casa volume)	= Estimated Purg	e Volume:	<u> (gal.)</u>	
Purge	Disposab	le Bailer		mpling	oisposable Baile	er l	•	
quipment:	Baller			Bailer				
	Stack		•	Ş	Pressure Bailer			
	Suction	_			Grab Sample			
	Grundfos Other:		_	(Other:			
				-	10 1	•		
	15'	15	Weather	Conditions:	Rain	<u> </u>	<u></u>	
Starting Time:	101	35	 Water C	olor: <u>tan</u>	·	Odor: No		
Sampling Time:			_{m.} Sedimer	nt Description:		<u> </u>		
Purging Flow Re	10.6		lf ves;	Time:	Volume	B:	(<u>qal</u> .	
Did well de-wat	ter?						. Alkalinity	
Time	Volume	PH	Conductivity µmhos/cm	Temperature •F	D.O. (mg/L)	ORP (mV)	(ppm)	
	(gal.)	150	777	12.5	-		•	
15:19	1.4	6.79	271	124				
15:23	2.7	6.77	218	122				
15:27	4	6.72	. 261					
							*	
								
			LABORATORY	INFORMATION	ı		YSES.	
			FARORATORI	Her Orman	- ADATABY	· ANAL		
SAMPI F ID	(#) - CO	NTAINER	REFRIG. PRESE	RV. TYPE " L	ABURATOITI			
SAMPLE ID	(#) - co		PRESE	RV. TYPE L	ABORATORY VZA	TPH(G)/btex/	mtbe	
· MW3	3 Vot	wial	REFRIG. PRESE Y HC	RV. TYPE L	ABURATOITI	TPH(G)/btex/	mtbe Est	
MW3 MW3	3 Vot	wirl bes L	PRESE	RV. TYPE L	ABURATOITI	TPH(G)/btex/	mtbe Est	
· MW3	3 Vot	wial	PRESE Y H	RV. TYPE L	ABURATOITI	TPH(G)/btex/	mtbe Est	
MW3 MW3	3 Vot	wirl bes L	PRESE Y H	RV. TYPE L	ABURATOITI	TPH(G)/btex/	mtbe Est	

WELL MONITORING/SAMPLING FIELD DATA SHEET

_	•	1 11-6	D DAIA OIL	- I			
Client/ Che Facility# 20	~9335		Job	#:	3867.		
Address:	225 N. 452	b St.	Date	e:	17-19-6	70	
City: Seat	He, WA			npler:	BWN		
		_		.p			
Well ID	_ MW 4	Wei	Condition:	ok	•		
Well Diameter		•	Irocarbon p		Amount B		
Total Depth	42.00 m		ckness:		(product/wa		(Gallons)
Depth to Water	36.35 #		olume 2" = ctor (VF)	0.17 6" = 1.	50	1,2" == 5.80	0.00
	5,65 x	vf 117	X 3 (cas	se volume) =	Estimated Pr	urge Volume: _	3 (08).
Purge Equipment:	Disposable Bailer Bailer		Sampling Equipme		posable B	ailer	•
:	Stack		Equipmo	· Bai	ler .		
	Suction Grundfos				ssure Baile ab Sample		•
	Other:			Oti	ner:		
	111 50		Weather Condit	. ¥	ain		
Starting Time:	15:05		Weather Condit Water Color:	ions:'_ g (a),		Odore Vo	<u> </u>
Sampling Time:	te:		Sediment Desci	· ·		•	~
Did well de-wate		ADIII	If yes; Time:	-		•	(pal.)
							
	olume pH (gal.)			Perature	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:53	1 6.78	- - 2:	12-	7			•
14:56	2 6.76	_	76 12.		· · · · · · · · · · · · · · · · · · ·		
14:59	<u>3 6.75</u>	_ · _ 5 ,	73 12	3			
	·			•	• • • • • • • • • • • • • • • • • • • •		
·		LABOR	RATORY INFORM	IATION			
SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABOR		ANAL	
MWH	3 VOANTAL	Υ	.HC :	SECOOR	- NCA	TPH(G)/btex/n	
MW 4 MW 4	1 Amber L		411]	TPHLD)+ Dissolved	
7 000, 1	I soome Pl.	Ψ_	171	1	.V	1-10001000	,
	·		 				
COMMENTS: _							
						· · · · · ·	

WELL MONITORING/SAMPLING FIELD DATA SHEET

•		FIELD DA					•
ent/ Chev	ron		Job#:	386	150_	· 	
cility# 20-	9335		-	12-16-0	00		
Idress: 1325	N. 45th 54	<u> </u>	_ Date:	BWN			<u> </u>
ty: Scattle	, WA		_ Sample	r:	 -		
Ly.							
	MW 5	Well Cond	dition:	ok	<u>. </u>		
Well ID	7 7 7	Well Colic			. Ballad	21	
ell Diameter		Hydrocari	1//	Amoun	t Bailed /water):	Ø	(Gallons)
	42.00 ft.	Thickness			0.38		= 0.66 ·
otal Depth	37.18 ft.	Volume Factor (V	_	$6^{\circ} = 1.50$	12" =	= 5.80 	
epth to Water		t				<i></i>	\ I .
•	4.82 x VF	.17	8 x 3 (case vo	olume) = Estimate	d Purge Vo	olume:	3.0 lost)
•	[# 0 V			•			•
Purge	Disposable Bailer		Sampling Equipment:	Disposable	e Bailer		•
quipment:	Bailer		Edubine	Bailer			
•	Stack			Pressure I			
	Suction				idie		
	Suction Grundfos		•	Grab Sam		_	•
Starting Time:	Grundfos Other:		ather Condition	Other: ns:Ra	i~	or:	<u> </u>
Sampling Time: Purging Flow Rat Did well de-wate Time	Grundfos Other: 15 ² 45 <u>16² 60</u>	Wa	ter Color: 1+ diment Descrip ves; Time: livity Tempe	Other:	i~		(gai
Sampling Time: Purging Flow Rat Did well de-wate Time	Grundfos Other: 15.45 16.00 te:	Conducti µmhos/c	ter Color:	Other:	Ode	ORP (mV)	Alkalinity (ppm)
Sampling Time: Purging Flow Rat Did well de-wate Time V	Grundfos Other:	Conducti LABORAT REFRIG.	ter Color:	Other:	Ode /olume: O. // Olume:	ORP (mV)	Alkalinity (ppm)
Sampling Time: Purging Flow Rate Did well de-wate Time SAMPLE ID	Grundfos Other: 15.45 16.00 (e:	Conducti µmhos/c	ter Color: H diment Descrip ves; Time: H stripe of the color of the co	Other:	Ode /olume: O. // Olume:	ORP (mV) ANAL H(G)/btex/ PH(D)	Alkalinity (ppm)
Sampling Time: Purging Flow Rate Did well de-wate Time V SAMPLE ID MW 5 MW 5	Grundfos Other: 15:45 16:00 16:00 Tolume pH (gal.) (#) - CONTAINER 3 VORVIXL 1 Ambee L	Conducti LABORAT REFRIG. Wa Conducti LABORAT	ter Color:	Other:	Ode /olume: O. // Olume:	ORP (mV) ANAL H(G)/btex/ PH(D)	Alkalinity (ppm)
Sampling Time: Purging Flow Rate Did well de-wate Time SAMPLE ID	Grundfos Other: 15.45 16.00 (e:	Conducti LABORAT REFRIG.	ter Color: _H diment Descrip ves; Time: _ ve	Other:	Ode /olume: O. // Olume:	ORP (mV) ANAL H(G)/btex/ PH(D)	Alkalinity (ppm)
Sampling Time: Purging Flow Rate Did well de-wate Time V SAMPLE ID MW 5 MW 5	Grundfos Other: 15:45 16:00 16:00 Tolume pH (gal.) (#) - CONTAINER 3 VORVIXL 1 Ambee L	Conducti LABORAT REFRIG. Wa Conducti LABORAT	ter Color: _H diment Descrip ves; Time: _ ve	Other:	Ode /olume: O. // Olume:	ORP (mV) ANAL H(G)/btex/ PH(D)	Alkalinity (ppm)

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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541,383,9310 fax 541,382,7588

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

Project: Chevron #20-9335

Project Number: 386750

Project Manager: Deanna Harding

Reported: 01/05/01 10:34

ANALYTICAL REPORT FOR SAMPLES

	Laboratory ID	Matrix	Date Sampled	Date Received
Sample ID			12/16/00 12:00	12/19/00 10:15
TB LB	B0L0461-01	Water	12/10/00 12:00	
MW1	B0L0461-02	Water	12/16/00 14:15	12/19/00 10:15
	B0L0461-03	Water	12/16/00 14:40	12/19/00 10:15
MW2		••	10/1/00 15:25	12/19/00 10:15
MW3	B0L0461-04	Water	12/16/00 15:35	12/19/00 10:13
	B0L0461-05	Water	12/16/00 15:05	12/19/00 10:15
MW4		997 A .	12/16/00 16:00	12/19/00 10:15
MW5	B0L0461-06	Water	12/10/00 10:00	122 15700 10,15

North Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network** Page 1 of



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Gettler-Ryan Inc. - Dublin

Project: Chevron #20-9335

6747 Sierra Court Suite G Dublin CA, 94568

Project Number: 386750

Project Manager: Deanna Harding

Reported: 01/05/01 10:34

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	Note
TB LB (B0L0461-01) Water	Sampled: 12/16/00 12:0	00 Receive	ed: 12/19/0	0 10:15		-			
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	ND	0.500	. п	#	#		*	н	
Toluene	ND	0.500	*			•	•		
Ethylbenzene	ND	0.500		•	*			₩	
Xylenes (total)	ND	1.00							
Methyl tert-butyl ether	ND	5.00	n	•	*	•		*	
Surrogate: 4-BFB (FID)	81.3 %	50-150					"	"	
Surrogate: 4-BFB (PID)	88.1 %	50-150		•	" .		•	•	
MW1 (B0L0461-02) Water S	Sampled: 12/16/00 14:15	5 Received	l: 12/19/00	10:15	•				
Gasoline Range Hydrocarbon	s 74.4	50.0	ug/l	ì	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	ND	0.500	<u>-</u>		•	,			
Toluene	ND	0.500	H	H	R		н	#	
Ethylbenzene	ND	0.500	*	•		•	•	•	
Xylenes (total)	ND	1.00	**	₩	**	•		•	
Methyl tert-butyl ether	ND	5.00	**	*	н .	**	H	H	
Surrogate: 4-BFB (FID)	94.8 %	50-150					<i>n</i>	н	
Surrogate: 4-BFB (PID)	<i>103 %</i>	50-150			*	*	" :	"	
MW2 (B0L0461-03) Water S		Received	l: 12/19/00	10:15	•		14,		•
Gasoline Range Hydrocarbons	28100	5000	ug/l	100	0L27004	12/27/00	12/27/00	WTPH-G/8021B	
Benzene	283	50.0	*		#	н	н ,	n .	
Toluene	2560	50.0	n	#	Ħ	П	,	m .	
Ethylbenzene	693	50.0	**	*		н	#	•	
Xylenes (total)	4020	100	**		*		*		
Methyl tert-butyl ether	ND	500	17	•					
Surrogate: 4-BFB (FID)	92.7%	50-150						н -	
Surrogate: 4-BFB (PID)	101 %	50-150			**	•	**	•	

North Creek Analytical - Bothell

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rt Greer, Project Manager



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Gettler-Ryan Inc. - Dublin 6747 Sierra Court Suite G

Project: Chevron #20-9335

Project Number: 386750

Reported: 01/05/01 10:34

Dublin CA, 94568

Project Manager: Deanna Harding

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

	140	orth Cree			·				1
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Sampled: 12/16/00 15:35	Received:	12/19/00	10:15				WTPH-G/8021B	
		50.0	ug/l	1	0L27004	12/27/00	12/27/00	WIPH-Grouzin	
Gasoline Range Hydrocarbons	· ND	0.500		Ħ	W				•
Benzene	0.612	0.500	•	•		. *	_		
Foluene	ND	0.500	' m	Ħ			9	-	
Ethylbenzene	1.95	1.00	*	#				-	•
Xylenes (total)	ND	5.00	H	•		. •			
Methyl tert-butyl ether						п	"	, "	
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	80.4 % 91.5 %	50-150 50-150			*	*	Ħ		. ,
MW4 (B0L0461-05) Water	Sampled: 12/16/00 15:0	5 Received	: 12/19/00	10:15		12/27/00	12/27/00	WTPH-G/8021B	
Gasoline Range Hydrocarbo		10000	ug/l	200	01.27004	12/2/100	12/2//00	н	
	326	100		*	•	_		•	•
Benzene	5520	100	•	*		-		•	-
Toluene	1430	100	**		•	_		N	
Ethylbenzene	8520	200	•	*	*	• "		N	•
Xylenes (total)	ND	1000	•	*		· •			
Methyl tert-butyl ether	99.4 %	50-150			"	*	. "		
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	109 %	50-150			•	*	"	· "	. •
MW5 (B0L0461-06) Water	Sampled: 12/16/00 16:	00 Receive	d: 12/19/0	0 10:15	0L2700	12/27/00	12/27/00	WTPH-G/8021B	•
Gasoline Range Hydrocarh		50000	ug/l	- 1000	01.2700	, 1221100 #	H	n •	•
Benzene	ND	500	•		-		₩.	*	
Toluene	15100	500			-		· • • • • • • • • • • • • • • • • • • •	11	
	4160	500	•	•					
Ethylbenzene	24100	1000		**				•	• • •
Xylenes (total)	ND	5000		n					
Methyl tert-butyl ether	91.2 %	50-150			*		*		
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	102 %	50-150			•	,,	•		

North Creek Analytical - Bothell

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Project Manager

North Creek Analytical, Inc. Environmental Laboratory Network



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

Project: Chevron #20-9335

Project Number: 386750

Project Manager: Deanna Harding

Reported: 01/05/01 10:34

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

Analyte Result Limit Units Dilution Batch Prepared Analyzed Method	
Diesel Range Hydrocarbons ND 0.281 mg/l 1 0L21010 12/21/00 12/24/00 WTPH Heavy Oil Range Hydrocarbons ND 0.844 " " " " " " " " " " " " " " " " " "	d Note
Diesel Range Hydrocarbons ND 0.281 mg/l 1 0L21010 12/21/00 12/24/00 WTPH Heavy Oil Range Hydrocarbons ND 0.844 " " " " " " " " " " " " " " " " " "	
Heavy Oil Range Hydrocarbons ND 0.844 " " " " " " " " " " " " " " " " " " "	
Surrogate: Octacosane 63.3 % 50-150 " " " "	•
· · · · · · · · · · · · · · · · · · ·	
MW2 (B0L0461-03) Water Sampled: 12/16/00 14:40 Received: 12/19/00 10:15	
Diesel Range Hydrocarbons 1.00 0.250 me/l 1 01 21010 1201/00 1201/00 WTDV	
Heavy Oil Range Hydrocarbons ND 0.750 " " " " " " " " "	,
Surrogate: 2-FBP 66.5 % 50-150 " " " "	
Surrogate: Octacosane 61.3 % 50-150 " " " "	
MW3 (B0L0461-04) Water Sampled: 12/16/00 15:35 Received: 12/19/00 10:15	
Diesel Range Hydrocarbons ND 0.250 mg/l 1 01 21010 1272400 WTPW	
Heavy Oil Range Hydrocarbons ND 0.750 " " " " " " " " " " " " " " " " " " "	•
Surrogate: 2-FBP 55.0 % 50-150 " " " "	-
Surrogate: Octacosane 63.2 % 50-150 " " " " "	
MW4 (B0L0461-05) Water Sampled: 12/16/00 15:05 Received: 12/19/00 10:15	
Diesel Range Hydrocarbons ND 0.470 mg/l 1 01 21010 1201/00 1204/00 WETPLY	
Heavy Oil Range Hydrocarbons ND 1.41 " " " " " " " " " " " " " " " " " " "	` . •
Surrogate: 2-FBP 58.0 % 50-150 " " " "	
Surrogate: Octacosane 60.0 % 50-150 " " " " " " "	
MW5 (B0L0461-06) Water Sampled: 12/16/00 16:00 Received: 12/19/00 10:15	
Diesel Range Hydrocarbons 5.08 0.250 mg/l 1 0131010 1371/00 1371/00 1371/00	
Heavy Oil Range Hydrocarbons ND 0.750 " " " " " " " " " " " " " " " " " " "	
Surrogate: 2-FBP % 50-150 " " " "	
Surrogate: Octacosane 64.6 % 50-150 " " "	S-02

North Creek Analytical - Bothell

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

Project: Chevron #20-9335

Project Number: 386750

Project Manager: Deanna Harding

Reported: 01/05/01 10:34

Dissolved Metals by EPA 6000/7000 Series Methods

North Creek Analytical - Bothell

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (B0L0461-02) Water	Sampled: 12/16/00 14:15	Received	l: 12/19/00	10:15					Q-30
Lead		0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	• .
MW2 (B0L0461-03) Water	Sampled: 12/16/00 14:40	Received	l: 12/19/00	10:15					Q-30
Lead		0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW3 (B0L0461-04) Water	Sampled: 12/16/00 15:35	Receive	1: 12/19/00	10:15				•	Q-30
Lead	ND	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW4 (B0L0461-05) Water	Sampled: 12/16/00 15:05	Receive	d: 12/19/0	0 10:15					Q-30
Lead	0.0123	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	
MW5 (B0L0461-06) Water	Sampled: 12/16/00 16:00	•••	d: 12/19/0	0 10:15					Q-30
Lead	0.0200	0.00100	mg/l	1	0L21008	12/21/00	12/21/00	EPA 6020	

North Creek Analytical - Bothell

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Greer, Project Manager

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Gettler-Ryan Inc. - Dublin

Project: Chevron #20-9335

6747 Sierra Court Suite G Dublin CA, 94568

Project Number: 386750 Project Manager: Deanna Harding

Reported: 01/05/01 10:34

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

North Creek Analytical - Bothell

<u> </u>		A	Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L27004:	Prepared 12/27/00	Using EP	A 5030B	(P/T)	i						
Blank (0L27004-B)	LK1)										
Gasoline Range Hydro	carbons	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 (FII	D)	39.7			48.0		82.7	50-150			
Surrogate: 4-BFB (PII	0)	44.6		•	48.0		92.9	<i>50-150</i>			
LCS (0L27004-BS1	1)										
Gasoline Range Hydro	carbons	501	50.0	ug/l	500		100	70-130			
Surrogate: 4-BFB (FII	D)	52.6		"	48.0		110	50-150		,	-
Duplicate (0L27004	4-DUP1)					Source: E	30L0461-	05			
Gasoline Range Hydro	carbons	61600	1000	ug/l		58200			5.68	25	
Surrogate: 4-BFB (FI	0)	70.3		"	48.0		146	50-150			·
Duplicate (01.2700	4-DUP2)	·				Source: E	30L0461-	03 .			
Gasoline Range Hydro	ocarbons	28800	25000	ug/l		28100			2.46	25	
Surrogate: 4-BFB (FII	D)	42.0			48.0		87.5	50-150	`		
Matrix Spike (0L2	7004-MS1)					Source: E	30L0464-	03			
Benzene		9.71	0.500	ug/l	10.0	ND	97.1	70-130			
Toluene		9.81	0.500	**	10.0	ND	97.2	70-130			
Ethylbenzene	•	10.0	0.500	*	10.0	ND	100	70-130			
Xylenes (total)		29.5	1.00	71	30.0	ND	97.5	70-130			
Methyl tert-butyl ether	r	10.0	5.00	Ħ	10.0	ND	100	70-130			
Surrogate: 4-BFB (PII	D)	47.5		- "	48.0		99.0	50-150			
	•										

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Greer, Project Manager

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Page 6 of 10



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Gettler-Ryan Inc. - Dublin

Project: Chevron #20-9335

6747 Sierra Court Suite G

Project Number: 386750

Project Manager: Deanna Harding

Reported: 01/05/01 10:34

Dublin CA, 94568 Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality **Control**

North Creek Analytical - Bothell

		140	orth Cre	ек Апац	y ticai - D						
Analyte	· · · · · · · · · · · · · · · · · · ·	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0L27004:	Prepared 12/27/00	Using El	PA 5030B	(P/T)	·				· <u> </u>		·,
	(01 27004 MSD1)					Source: I	B0L0464-	03			
Matrix Spike Dup	(UL2/UU4-MISDI)	9.81	0,500	ug/l	10.0	ND	98.1	70-130	1.02	15	
Benzene		_		-9.	10.0	ND	97.9	70-130	0.711	15	
Toluene		9.88	0.500		-	ND	100	70-130	0	15	
Ethylbenzene		10.0	0.500	•	10.0			70-130	0.676	15	
Xylenes (total)		29.7	1.00	•	30.0	ND	98.2	•			
Methyl tert-butyl ethe	r	9.73	5.00		10.0	ND	97.3	70-130	2.74 	15	
Surrogate: 4-BFB (PI		48.0		"	48.0		. 100	50-150			*,

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Environmental Laboratory Network Page 7 of 10



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541,383,9310 fex 541,382,7588

Gettler-Ryan Inc. - Dublin

Project: Chevron #20-9335

6747 Sierra Court Suite G **Dublin CA, 94568**

Project Number: 386750 Project Manager: Deanna Harding

Reported: 01/05/01 10:34

Diesel Hydrocarbons (C12-C24) and Heavy Oil (C24-C36 by WTPH-D (extended) with Silica Gel Clean-up **Quality Control**

North Creek Analytical - Bothell

	Reporting			Spike	Source		%REC		RPD		
Analyte_		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L21010: I	Prepared 12/21/00	Using E	PA 3510C/	600 Series							,
Blank (0L21010-BLK	1)										
Diesel Range Hydrocarbo	กร	ND	0.250	mg/l							 -
Heavy Oil Range Hydroca	erbons	ND	0.750	N							
Surrogate: 2-FBP		0.212	,	<i>m</i>	0.320	·	66.3	50-150			<u>_</u>
Surrogate: Octacosane		0.197		*	0.320		61.6	50-150			
LCS (0L21010-BS1)											
Diesel Range Hydrocarbo	กร	1.34	0.250	mg/l	2.00		67.0	50-150	· ·		
Surrogate: 2-FBP	·	0.224		- #	0.320		70.0	50-150			
Duplicate (0L21010-D	UP1)					Source: I	30L0430-	05			
Diesel Range Hydrocarbo	กร	1.72	0.479	mg/l		1.37	-		22.7	44	
Heavy Oil Range Hydroca	arbons	ND	1.44			ND			-	44	
Surrogate: 2-FBP		0.394		, #	0.613		64.3	50-150			
Surrogate: Octacosane	•	0.417			0.613		68.0	50-150			
Duplicate (0L21010-D	UP2)					Source: I	30L0461-	05			
Diesel Range Hydrocarbo	ns	ND	0.473	mg/l		ND		•	28,0	44	
Heavy Oil Range Hydroca	erbons	ND	1.42			ND				44	
Surrogate: 2-FBP		0.441		**	0.606		72.8	50-150			
Surrogate: Octacosane		0.413		N	0.606		68.2	50-150	V	*	

North Creek Analytical - Bothell

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North Creek Analytical, Inc. **Environmental Laboratory Network** Page 8 of 10



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20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Gettler-Ryan Inc. - Dublin

Project: Chevron #20-9335

6747 Sierra Court Suite G

Project Number: 386750

Reported:

Dublin CA, 94568

Project Manager: Deanna Harding

01/05/01 10:34

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

		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0L21008: Prepared 12/21/0	0 Using E	PA 3005A			•					<u> </u>
Blank (0L21008-BLK1)	<u>-</u>								· · · · · · · · ·	
ead	ND	0.00100	mg/l							
LCS (0L21008-BS1)										
cad	0.196	0.00100	mg/l	0.200		98.0	80-120			
Matrix Spike (0L21008-MS1)					Source: 1	B0L0398-	05			
ead	0.203	0.00100	mg/l	0.200	ND	101	75-125			
Matrix Spike Dup (0L21008-MSD1)			• .		Source: 1	B0L0398-	05			
ead	0,204	0.00100	mg/l	0.200	ND	102	75-125	0.491	20	

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Environmental Laboratory Network Page 9



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Gettler-Ryan Inc. - Dublin

Project: Chevron #20-9335

6747 Sierra Court Suite G

Dublin CA, 94568

Project Number: 386750 Project Manager: Deanna Harding

Reported: 01/05/01 10:34

Notes and Definitions

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

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds S-02

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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North Creek Analytical, Inc. Page 10 of 10 Environmental Laboratory Network

ATTACHMENT D LABORATORY ANALYTICAL METHODS AND REPORTS CHAIN-OF-CUSTODY DOCUMENTATION

ATTACHMENT D

Laboratory Analytical Methods

Analysis for TPH-gasoline was performed according to Northwest Method NWTPH-G. Analyses for TPH-diesel and oil was performed on soil by Northwest Method NWTPH-Dx with silica gel cleanup and on water by Washington state Method WTPH-Dx with silica gel cleanup. Benzene, toluene, ethylbenzene, and xylenes (BTEX) analysis was performed in accordance with EPA Method 8021B. Methyl tert-butyl ether analysis was performed in accordance with EPA Method 8021B. A methanol solvent extraction was used for the WTPH-G analysis with final detection by gas chromatography using a flame-ionization detector. A headspace or purge and trap technique was utilized for BTEX analysis. Final detection was by gas chromatography using a photoionization detector. Analysis for total and dissolved lead was performed according to EPA 6000/7000 Series Methods.



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27 October, 2000

Matt Miller Delta Environmental 1200 112th Ave. NE C146 Bellevue, WA 98004

RE: Chevron #20-9335

Enclosed are the results of analyses for samples received by the laboratory on 10/13/00 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Lawrence Miller, Jr.

Project Manager



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Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	. Laboratory ID	Matrix	Date Sampled	Date Received
MW-1-35	B0J0324-07	Soil	10/10/00 10:03	10/13/00 15:30
MW-2-35	B0J0324-15	Soil	10/11/00 12:29	10/13/00 15:30
MW-3-35	B0J0324-24	Soil	10/10/00 13:39	10/13/00 15:30
MW-4-35	ВОЈ0324-33	Soil	10/11/00 09:48	10/13/00 15:30
MW-5-5	B0J0324-36	Soil	10/11/00 13:57	10/13/00 15:30
MW-5-35	B0J0324-42	Soil	10/11/00 14:20	10/13/00 15:30
SB-7	B0J0324-45	Soil	10/11/00 11:31	10/13/00 15:30
STOCKPILE	B0J0324-46	Soil	10/11/00 15:30	10/13/00 15:30
310CIX ILL				

North Creek Analytical - Bothell

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Paul Lawrence Miller, Jr., Project Manager

North Creek Analytical, Inc. Page Page 1 of 13 **Environmental Laboratory Network**



541.383.9310 fax 541.382.7588

Delta Environmental

Project: Chevron #20-9335

1200 112th Ave. NE C146 Bellevue WA, 98004

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-35 (B0J0324-07) Soil	Sampled: 10/10/00 10	:03 Receive	ed: 10/13/00	15:30					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg đry	1	0J14007	10/14/00	10/16/00	NWTPH-Gx/8021B	-
Benzene	ND	0.0500	11	n	10	н	10	n	. •
Toluene	ND	0.0500	n	H .		**	н	n	
Ethylbenzene	ND	0.0500	H	н	u	**	н	n	
Xylenes (total)	ND	0.100	u	**	"	n	n	n ,	
Surrogate: 4-BFB (FID)	82.3 %	50-150			"	"	н	"	
Surrogate: 4-BFB (PID)	79.0 %	50-150			"	"	"	,	
MW-2-35 (B0J0324-15) Soil	Sampled: 10/11/00 12	:29 Receiv	ed: 10/13/00	15:30					
Gasoline Range Hydrocarbon	s 430	5.00	mg/kg dry	1	0J14007	10/14/00	10/16/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	**	**	. "	н	H	
Toluene	ND	0.570	11	n	n		n	n	R-03
Ethylbenzene	ND	2.45	tr	ti .	n	**	H	P	R-03
Xylenes (total)	ND	7.65	n	te	n	17	11	и	R-03
Surrogate: 4-BFB (FID)	%	50-150			"	"	"	ii .	S-02
Surrogate: 4-BFB (PID)	144 %	50-150			"	"	"	"	
MW-3-35 (B0J0324-24) Soil	Sampled: 10/10/00 13	3:39 Receiv	ed: 10/13/00	15:30					
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0J14007	10/14/00	10/16/00	NWTPH-Gx/8021B	•
Benzene	ND	0.0500	n	••	**	n	W	Ħ	
Toluene	ND	0.0500	11	Ħ	11	н	. 6	**	
Ethylbenzene	ND	0.0500	II .	U	п	. 10	H	r	. •
Xylenes (total)	ND	0.100	H	"	н	**		н	_
Surrogate: 4-BFB (FID)	92.0 %	50-150			,,	"	"	"	
Surrogate: 4-BFB (PID)	84.6 %	<i>50-150</i>			"	"	. "	. "	

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541.383.9310 fax 541.382.7588

Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

		Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	Limit	Units	Ditution -					
WW-4-35 (B0J0324-33) Soil	Sampled: 10/11/00 09:	48 Receive	ed: 10/13/00	15:30				<u> </u>	• • •
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	0J14007	10/14/00	10/16/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n		H	•	H		
Toluene	ND	0.0500	**	n	И	H	- н		•
Ethylbenzene	ND	0.0500	n	11	**	n	н	т.	
Xylenes (total)	ND	0.100	Ħ						
Surrogate: 4-BFB (FID)	88.7 %	50-150			11	"	pt .	# · ;	
Surrogate: 4-BFB (PID)	84.8 %	50-150			"	**	n	"	•
MW-5-5 (B0J0324-36) Soil	Sampled: 10/11/00 13:	57 Receive	d: 10/13/00 1	15:30	· ·				
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry	1	OJ14007	10/14/00	10/16/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	n	11	n	**	I	-	
Toluene	ND	0.0500	**	π	11	n	11	• -	•
Ethylbenzene	ND	0.0500		Ħ	"	11	11	" ,	
Xylenes (total)	ND	0.100	n	Ħ	n		н		
Surrogate: 4-BFB (FID)	85.0 %	50-150			"	"	#	"	
Surrogate: 4-BFB (PID)	88.9 %	50-150			"	"	**	"	
MW-5-35 (B0J0324-42) Soil	Sampled: 10/11/00 14	:20 Receiv	ed: 10/13/00	15:30		<u> </u>			
Gasoline Range Hydrocarbon	ns 9.41	5.00	mg/kg dry	1	0J14007	10/14/00	10/16/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	M	n	ite	11		" .	
Toluene	ND	0.0500	7	n	*	"		-	
Ethylbenzene	ND	0.0510	n	H	н		11	" -	R-0
Xylenes (total)	0.328	0.100	, 11	п	"			·	
	97.9 %	50-150			"	"		<i>n</i> .	. ,
Surrogate: 4-BFB (FID) Surrogate: 4-BFB (PID)	88.9 %	50-150	•		"	H	"	n	•

North Creek Analytical - Bothell

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Paul Lawrence Miller, Jr., Project Manager

Page Page 3 of 13 North Creek Analytical, Inc. Environmental Laboratory Network



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Delta Environmental

Project: Chevron #20-9335

1200 112th Ave. NE C146 Bellevue WA, 98004

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-7 (B0J0324-45) Soil	Sampled: 10/11/00 11:31	Received: 1	0/13/00 15:30)					
Gasoline Range Hydrocarl	oons ND	5.00	mg/kg dry	1	0J14007	10/14/00	10/16/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	11	10	н	и	11	. •
7 Toluene	0.0767	0.0500	п	11	tr	н	11	11	
/ Ethylbenzene	ND	0.0500	н	n	D	*	n	•	
- Xylenes (total)	0.190	0.100	n	Ħ	tr	**	н	w	
Surrogate: 4-BFB (FID)	94.2 %	50-150			"	"	,,	. "	
Surrogate: 4-BFB (PID)	88.2 %	50-150			"	"	"	"	
STOCKPILE (B0J0324-	46) Soil Sampled: 10/11/	00 15:30 Re	ceived: 10/13	/00 15:30					
Gasoline Range Hydrocarl	oons ND	5.00	mg/kg dry	1	0J14007	10/14/00	10/15/00	NWTPH-Gx/8021B	
Benzene	ND	0.0500	11	h	19	Ħ	H	п	
Toluene	ND	0.0500	n	n	Ħ	•	**	II	
Ethylbenzene	ND	0.0500	ท	u	li .	10	11	u	
Xylenes (total)	ND	0.100	Ħ	н	H	ò	n	N	
Surrogate: 4-BFB (FID)	96.3 %	50-150			"	"	,,	"	
Surrogate: 4-BFB (PID)	88.5 %	50-150			"	,,	"	n	

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541,383.9310 fax 541.382.7588

Delta Environmental

Project: Chevron #20-9335

1200 112th Ave. NE C146 Bellevue WA, 98004

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
_ <u></u>	 								
MW-1-35 (B0J0324-07) Soil	Sampled: 10/10/00 10:	03 Receive	d: 10/13/00	15:30					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0J14002	10/14/00	10/15/00	NWTPH-Dx SG	
Lube Oil Range Hydrocarbons	ND	25.0	H		<u> </u>				<u>: </u>
Surrogate: 2-FBP	59.0 %	50-150			"	"	"	**	
MW-2-35 (B0J0324-15) Soil	Sampled: 10/11/00 12:	29 Receive	ed: 10/13/00	15:30					,
Diesel Range Hydrocarbons	94.1	10.0	mg/kg dry	1	0J14002	10/14/00	10/15/00	NWTPH-Dx SG	
Lube Oil Range Hydrocarbons	ND	25.0	· m				h 	· · · · · · · · · · · · · · · · · · ·	
Surrogate: 2-FBP	72.0 %	50-150		<u>.</u>	"	"	"	u	
MW-3-35 (B0J0324-24) Soil	Sampled: 10/10/00 13:	39 Receive	ed: 10/13/00	15:30					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0 J14002	10/14/00	10/15/00	NWTPH-Dx SG	
Lube Oil Range Hydrocarbons	ND	25.0	•	•				n	
Surrogate: 2-FBP	65.7 %	50-150			"	"	"	"	
MW-4-35 (B0J0324-33) Soil	Sampled: 10/11/00 09	:48 Receiv	ed: 10/13/00	15:30					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0J14002	10/14/00	10/15/00	· NWTPH-Dx SG	
Lube Oil Range Hydrocarbons	ND	25.0	n		n.		• • • • • • • • • • • • • • • • • • •		
Surrogate: 2-FBP	55.1 %	50-150			*	**	H	er	
MW-5-5 (B0J0324-36) Soil	Sampled: 10/11/00 13:	57 Receive	d: 10/13/00	15:30			<u></u>	<u> </u>	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0J14002	10/14/00	10/15/00	NWTPH-Dx SG	
Lube Oil Range Hydrocarbons	ND	25.0	11	**	**	n	n	n	·
Surrogate: 2-FBP	58.1 %	50-150			"	Ħ	"	,,	
MW-5-35 (B0J0324-42) Soil	Sampled: 10/11/00 14	:20 Receiv	ed: 10/13/00	15:30			· \ \ '	<u> </u>	
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	OJ14002	10/14/00	10/15/00	NWTPH-Dx SG	
Lube Oil Range Hydrocarbons	, ND	25.0	н	11	**	н	11	n 	
Surrogate: 2-FBP	62.3 %	50-150			"	"	"	#	

North Creek Analytical - Bothell

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Paul Lawrence Miller, Jr., Project Manager

North Creek Analytical, Inc. Page Page 5 of 13 Environmental Laboratory Network



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503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Delta Environmental

Project: Chevron #20-9335

1200 112th Ave. NE C146

Project Number: M000-524

Reported: 10/27/00 14:20

Bellevue WA, 98004

Project Manager: Matt Miller

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STOCKPILE (B0J0324-46) Soil	Sampled: 10/11/0	0 15:30 Re	ceived: 10/1	3/00 15:30					
Diesel Range Hydrocarbons	ND	10.0	mg/kg dry	1	0J14002	10/14/00	10/15/00	NWTPH-Dx SG	-
Lube Oil Range Hydrocarbons	ND	25.0		н	•	H	11		··
Surrogate: 2-FBP	64.3 %	50-150			"	"	"	ņ	

North Creek Analytical - Bothell

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Paul Lawrence Miller, In Project Manager

North Creek Analytical, Inc. Page Page 6 of 13 Environmental Laboratory Network



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Portland 503.906.9200 fax 503.906.9210 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541,383,9310 fax 541,382,7588

Delta Environmental

1200 112th Ave. NE C146 Believue WA, 98004

Project Number: M000-524

Project: Chevron #20-9335

Reported: 10/27/00 14:20

Project Manager: Matt Miller

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
STOCKPILE (B0J0324-46) Soil	Sampled: 10/11/00	15:30 Red	eived: 10/13	3/00 15:30					·
Lead	6.68	0.331	mg/kg dry	1	0J17041	10/17/00	10/18/00	EPA 6020	

North Creek Analytical - Bothell

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

Paul Lawrence Miller, Jr., Project Manager

North Creek Analytical, Inc. Page Page 7 of 13 **Environmental Laboratory Network**



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Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

Physical Parameters by APHA/ASTM/EPA Methods North Creek Analytical - Bothell

	Re	porting				-			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1-35 (B0J0324-07) Soil	Sampled: 10/10/00 10:03	Receive	d: 10/13/0	0 15:30					
Dry Weight	81.5	1.00	%	1	0J25037	10/25/00	10/26/00	BSOPSPL003R07	
MW-2-35 (B0J0324-15) Soil	Sampled: 10/11/00 12:29	Receive	d: 10/13/0	0 15:30				_	
Dry Weight	84.1	1.00	%	i	0J25037	10/25/00	10/26/00	BSOPSPL003R07	
MW-3-35 (B0J0324-24) Soil	Sampled: 10/10/00 13:39	Receive	d: 10/13/0	0 15:30					_
Dry Weight	91.8	1.00	%	1	0J25037	10/25/00	10/26/00	BSOPSPL003R07	
MW-4-35 (B0J0324-33) Soil	Sampled: 10/11/00 09:48	Receive	d: 10/13/0	0 15:30					
Dry Weight	92.1	1.00	%	, 1	0J25037	10/25/00	10/26/00	BSOPSPL003R07	
MW-5-5 (B0J0324-36) Soil	Sampled: 10/11/00 13:57	Received	: 10/13/00	15:30		_			
Dry Weight	90.8	1.00	%	1	0J25037	10/25/00	10/26/00	BSOPSPL003R07	
MW-5-35 (B0J0324-42) Soil	Sampled: 10/11/00 14:20	Receive	d: 10/13/0	0 15:30				<u> </u>	
Dry Weight	94.8	1.00	%	1	0J250 37	10/25/00	10/26/00	BSOPSPL003R07	
SB-7 (B0J0324-45) Soil San	mpled: 10/11/00 11:31 Rec	eived: 10	/13/00 15:	:30					
Dry Weight	92.5	1.00	%	1	0J25037	10/25/00	10/26/00	BSOPSPL003R07	
STOCKPILE (B0J0324-46) 8	Soil Sampled: 10/11/00 15	5:30 Rec	eived: 10/	13/00 15:30					·
Dry Weight	92.1	1.00	%	1	0J16042	10/16/00	10/17/00	BSOPSPL003R07	

North Creek Analytical - Bothell

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North Creek Analytical, Inc. Page Page 8 of 13
Environmental Laboratory Network



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Delta Environmental

1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0J14007: Prepared 10/14/00	Using EP	A 5030B	(МеОН)	· · · · · · · · · · · · · · · · · · ·						<u>:</u>
Blank (0J14007-BLK1)										· · · · · · · · · · · · · · · · · · ·
Gasoline Range Hydrocarbons	ND	5.00	mg/kg wet							
Benzene	ND	0.0500	Ħ							
Toluene	ND	0.0500	n							
Ethylbenzene	ND	0.0500	*							•
Xylenes (total)	ND	0.100	н							
Surrogate: 4-BFB (FID)	3.78		H	4.00		94.5	50-150			
Surrogate: 4-BFB (PID)	3.72		"	. 4.00		93.0	50-150			
LCS (0J14007-BS1)		_								
Gasoline Range Hydrocarbons	18.3	5.00	mg/kg wet	25.0		73.2	70-130			
Surrogate: 4-BFB (FID)	3.62		"	4.00		90.5	50-150			
Duplicate (0J14007-DUP1)					Source:	В0Ј0286-	50			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			40.6	50	
Surrogate: 4-BFB (FID)	4.81		"	5.07	•	94.9	50-150			
Duplicate (0J14007-DUP2)			•		Source:	В0 J02 86-	51			
Gasoline Range Hydrocarbons	ND	5.00	mg/kg dry		ND			53.0	50	Q-0
Surrogate: 4-BFB (FID)	4.60		"	5.58		82.4	50-150			. •
Matrix Spike (0J14007-MS1)					Source:	В0J0286	47			
Benzene	0.546	0.0500	mg/kg dry	0.628	ND	86.5	60-140	, ,		
Toluene	0.549	0.0500	n	0.628	ND	86.2	60-140		•	
Ethylbenzene	0.597	0.0500	и .	0.628	ND	94.3	60-140			
Xylenes (total)	1.83	0.100	н	1.88	ND	95.8	60-140			
Surrogate: 4-BFB (PID)	4.49			5.02		89.4	50-150			
Matrix Spike Dup (0J14007-MSD1)					Source:	В0J0286	-47			
	0.491	0.0500	mg/kg dry	0.628	ND	77.8	60-140	10.6	. 20	
Benzene	0.492	0.0500	• •	0.628	ND	77.1	60-140	11.0	20	
Toluene	0.432	0.0500		0.628		85.1	60-140	10.2	20	
Ethylbenzene Xylenes (total)	1.65	0.100		1.88	ND	86.3	60-140	10.3	20	
Whenes (rotal)				5,02		85.5	50-150			

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Delta Environmental

Project: Chevron #20-9335

1200 112th Ave. NE C146 Bellevue WA, 98004

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0J14002:	Prepared 10/14/00	Using EF	PA 3550B			_					
- Blank (0J14002-BL	.K1)						-				
Diesel Range Hydroca	rbons	ND	10.0	mg/kg wet							
Lube Oil Range Hydro	carbons	ND	25.0	н							
Surrogate: 2-FBP		6.62		n	10.7		61.9	50-150			
LCS (0J14002-BS1)									ı	
Diesel Range Hydroca	rbons	57.2	10.0	mg/kg wet	66.7		85.8	50-150			-
Surrogate: 2-FBP		7.27		"	10.7		67.9	50-150			-
Duplicate (0J14002	-DUP1)					Source: I	30J03 2 4-2	.4			
Diesel Range Hydroca	rbons	ND	10.0	mg/kg dry		ND				50	-
Lube Oil Range Hydro	carbons	ND	25.0	li .		ND			•	50	
Surrogate: 2-FBP		6.41		"	11.6		55.3	50-150		- 1	

North Creek Analytical - Bothell

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541.383.9310 fax 541.382.7588

Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

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

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0J17041:	Prepared 10/17/00	Using EP	A 3050B								<u>. </u>
Blank (0J17041-BL)	K1)										
Lead		ND	0.500	mg/kg wet							•
LCS (0J17041-BS1)											
Lead		24.8	0.500	mg/kg wet	25.0		99.2	80-120			
Matrix Spike (0J170)41-MS1)					Source: 1	В0Ј0286-	51			
Lead		35.2	0.338	mg/kg dry	23.6	11.9	98.7	70-130			
Matrix Spike Dup (0J17041-MSD1)				. •	Source:	В0Ј0286-				
Lead		34.6	0.333	mg/kg dry	23.3	11.9	97.4	70-130	1.72	20	•

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Delta Environmental 1200 112th Ave. NE C146

Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control North Creek Analytical - Bothell

			Reporting		Spike	Source		%REC		RPD	
Analyte		Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0J16042:	Prepared 10/16/00	Using Dr	y Weight				-				
Blank (0J16042-B)	LK1)										.
Dry Weight		100	1.00	%							<u> </u>
Batch 0J25037:	Prepared 10/25/00	Using Dr	y Weight								
Blank (0J25037-Bl	LK1)				···				-		<u> </u>
Dry Weight		100	1.00	%							

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Delta Environmental 1200 112th Ave. NE C146 Bellevue WA, 98004

Project: Chevron #20-9335

Project Number: M000-524 Project Manager: Matt Miller

Reported: 10/27/00 14:20

Notes and Definitions

Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. Q-05

The reporting limit for this analyte has been raised to account for interference from coeluting organic compounds present in the R-03

sample.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds S-02

present in the sample.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

Relative Percent Difference **RPD**

North Creek Analytical - Bothell

Paul Lawrence Miller, Jr., Project Manager The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

> Page Page 13 of 13 North Creek Analytical, Inc. ... Environmental Laboratory Network



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	20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711	(541) 383-9310	FAX 382-7588	— —
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11	Name DELTA ENVIRONMENTAL CONSULTANT Spice II MA Address: 1200 112TH AVE. N.E. SUITE C146 BELLEVIE, WA 98004 Phone: 475-450-9425 Project Manager: MATT MILLE A Airbill#: Sample Collection by: Shew Match ATION SAMPLING MATRIX OR DATE TIME: (W.S.O) TAINERS Lofwig Sale Lofwig S																					3 Business Day	is.	
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FAX 924-9290 (509) 924-9200 FAX 906-9210' (503) 906-9200 FAX 382-7588 (541) 383-9310

CH	EVRON U	<u>U.S.A.</u> ,	Inc. (H	A]	(N)	<u>OF</u>	<u>}</u> (<u> </u>	JS'	<u>rc</u>	<u>)D</u>	<u>Y</u>]	<u>RE</u>		\mathbf{O}	RT	<u>B</u>	01	03	21	<u>′</u>	Laboratory Turnaround
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FAX 420-9210 FAX 924-9290

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

CH	EVRON	U.S.A.	Inc.	CF	ŦĀ	IN	OF	C		T	'n	\mathbf{V}	RΙ	7 P	Ω	ЭΤ	R		 	(341)3 J	65-9510 FAX 3		<u>니</u>
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CH	EVRON I	U .S.A. ,	Inc. (CH	(A)	NC	F	CU	JST	<u> </u>	D)	R	EP	0	RT	K	<u> 501</u>	030	<u> </u>		Laboratory Turnaround
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