July 6, 2004 G-R #386696

TO:

Ms. Jessica Jenkins

Secor International, Inc. 7730 SW Mohawk Street Tualatin, Oregon 97062

RECEIVED

AUG 0 5 2004

DEPT OF ECOLOGY

FROM:

Deanna L. Harding

Project Coordinator Gettler-Ryan Inc.

6747 Sierra Court, Suite J Dublin, California 94568 **RE: Chevron Service Station**

#9-9609

1206 4th Street

Marysville, Washington

MTI: 99609.01

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	July 2, 2004	Groundwater Monitoring and Sampling Report Event of June 11, 2004

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to *July 30*, *2004*, at which time the final report will be distributed to the following:

Mr. John Wiefeld, WDOE, Northwest Region, 3190 160th Avenue, SE, Bellevue, WA 98008-5452
 Ms. Madelaine Montilla, Secor International Inc, 2301 Leghorn Street, Mountain View CA, 94043

☐ Current Site Check List included.

CP 1-5-05

Enclosure

trans/9-9609-KS



July 2, 2004 Job #386696

Ms. Karen Streich ChevronTexaco Company P.O. Box 6012, Room K2256 San Ramon, CA 94583

RE: Event of June 11, 2004

Groundwater Monitoring & Sampling Report

Chevron Service Station #9-9609

1206 4th Street

Marysville, Washington

Dear Ms. Streich:

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 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 and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical reports are attached.

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

Sincerely,

Deanna L. Harding

Project Coordinator

Hagop Kevork Professional Engineer

Figure 1:

Potentiometric Map

Table 1: Attachments:

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

Field Data Sheets

Chain of Custody Document and Laboratory Analytical Reports

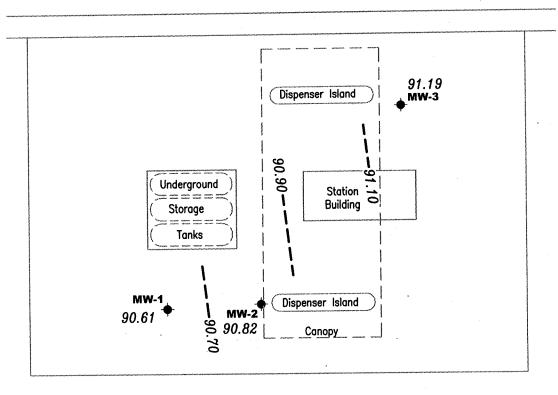
EXPLANATION

Groundwater monitoring well

Groundwater elevation in feet 99.99 referenced to an arbitrary datum

> Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.005 Ft./Ft.



4TH STREET

Source: Figure modified from drawing provided by Delta.

PROJECT NUMBER



REVIEWED BY

POTENTIOMETRIC MAP Chevron Service Station #9-9609 1206 4th Street

Marysville, Washington DATE

June 11, 2004

REVISED DATE

FIGURE

40

Scale in Feet

386696

FILE NAME: P:\Enviro\Chevron\9-9609\Q04-9-9609.dwg | Layout Tab: Pot2

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-9609

evron Service Station #9-9 1206 4th Street Marysville, Washington

						waijov	,						
WELL ID/		TOC*	DTW	GWE	TPH-D	ТРН-О	TPH-G	В	Ť	E	X	MTBE (ppb)	D. Lead (ppm)
DATE		(ft.)	(fi.)	(ft.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(prb)	(ppb)	Другоу	· · · (PPSG)
								•					
MW-1										~~	**		
12/01/00		99.83	10.00	89.83		2			 ND	ND	ND	ND	0.0121
12/12/00		99.83	9.94	89.89	ND^2	ND^2	ND	ND	ND ND	ND	1.25		
03/15/01		99.83	9.50	90.33			ND	ND		< 0.500	<1.00		
06/17/01		99.83	8.14	91.69			<50.0	1.49	< 0.500		<1.00	 .	
09/20/01		99.83	9.83	90.00			<50.0	< 0.500	< 0.500	<0.500		<1.00	
12/03/01		99.83	9.18	90.65			< 50.0	< 0.500	< 0.500	< 0.500	<1.00		
06/12/02		99.83	10.64	89.19						- -			
12/06/02		99.83	10.25	89.58									
		99.83	9.34	90.49									
06/04/03		99.83	9.41	90.42									
12/17/03	NID	99.83	9.22	90.61	***		<50	< 0.5	<0.5	< 0.5	<1.5	<2.5	
06/11/04	NP	77,03). 	70101									
MW-2													
12/01/00		100.28	9.60	90.68						710	2,530	ND^1	0.00109
12/12/00		100.28	10.31	89.97	ND^2	ND^2	12,700	38.0	51.4	719	627	¹ ND/ND ³	
03/15/01		100.28	9.85	90.43			3,360	19.8	5.10	166		$<5.00/<5.00^3$	
06/17/01		100.28	9.51	90.77			972	9.10	1.62	75.0	165	4.36/<5.00 ³	 *
09/20/01		100.28	10.21	90.07			977	8.31	2.12	127	152		
12/03/01		100.28	9.53	90.75			660	3.96	1.37	60.8	160	$<1.00/<5.00^3$	
06/12/02	NP	100.28	9.28	91.00			59	< 0.50	< 0.50	< 0.50	<1.5	<2.5	
12/06/02	NP	100.28	10.78	89.50			<48	< 0.50	< 0.50	< 0.50	1.8	<2.5	
06/04/03	NP	100.28	9.83	90.45			< 50	2.2	< 0.5	< 0.5	<1.5	<2.5	
12/17/03	NP	100.28	9.90	90.38			< 50	< 0.5	1.1	0.6	<1.5	<2.5	
	NP	100.28	9.46	90.82		· 	<50	<0.5	<0.5	2.1	<1.5	<2.5	
06/11/04	INP	100.40	7.4U	70.04	. ==								

Table 1
Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9609 1206 4th Street Marysville, Washington

WELL ID/		TOC*	DTW	GWE	TPH-D	TPH-O	TPH-G	В	T	E	X	MTBE	D. Lead
DATE		(ft.)	(fi.)	(fi.)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppm)
D/VI.E.		UPJ	<u>UP</u>	······ V . · V.·····	· · · · · · · · · · · · · · · · · · ·								
MW-3													
12/01/00		100.57	9.80	90.77	, 							ND.	0.0165
12/12/00		100.57	10.12	90.45	ND^2	ND^2	ND	ND	ND	ND	ND	ND	0.0103
03/15/01		100.57	9.67	90.90			ND	ND	ND	ND	ND		
06/17/01		100.57	9.33	91.24			<50.0	< 0.500	< 0.500	< 0.500	<1.00		
09/20/01		100.57	9.95	90.62		 .	< 50.0	< 0.500	< 0.500	<0.500	<1.00		•• •: •:
12/03/01		100.57	9.32	91.25			<50.0	< 0.500	< 0.500	< 0.500	<1.00	<1.00	'
06/12/02		100.57	9.09	91.48						~ :			
12/06/02		100.57	10.40	90.17									
06/04/03		100.57	9.46	91.11									
12/17/03		100.57	9.54	91.03					***				
06/11/04	NP	100.57	9.38	91.19			<50	<0.5	<0.5	<0.5	<1.5	<2.5	
TRIP BLAN	K										310	NID	
03/15/01							ND	ND	ND	ND	ND	ND	
06/17/01							97.6	< 0.500	0.596	<0.500	1.85	< 5.00	
09/20/01							<50.0	< 0.500	< 0.500	< 0.500	<1.00		
12/03/01							< 50.0	< 0.500	< 0.500	< 0.500	<1.00	<1.00	 :
QA							ě						-
06/12/02							< 50	< 0.50	< 0.50	< 0.50	<1.5	<2.5	
12/06/02						••	<48	< 0.50	< 0.50	< 0.50	<1.5	<2.5	
06/04/034		***											
12/17/03							< 50	< 0.5	< 0.5	< 0.5	<1.5	<2.5	••
				an 100			<50	<0.5	<0.5	< 0.5	<1.5	<2.5	

TPH-D	ТРН-О	TPH-G	В	Т	E	X	MTBE	D. Lead
250	250	50	0.5	0.5	0.5	1.5	2.5	0.00100
500	500	800/1,000	5	1,000	700	1,000	20	
	NWTPH-D + Extended			NWTPH-G an	d EPA 8021B			EPA 6020
	250 500	250 250 500 500	250 250 50 500 500 800/1,000	250 250 50 0.5 500 500 800/1,000 5	250 250 50 0.5 0.5 500 500 800/1,000 5 1,000	250 250 50 0.5 0.5 0.5 500 500 800/1,000 5 1,000 700	250 250 50 0.5 0.5 0.5 1.5 500 500 800/1,000 5 1,000 700 1,000	250 250 50 0.5 0.5 0.5 1.5 2.5 500 500 800/1,000 5 1,000 700 1,000 20

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-9609 1206 4th Street Marysville, Washington

EXPLANATIONS:

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

TOC = Top of Casing

B = Benzene

(ppm) = Parts per million

(ft.) = Feet

T = Toluene

ND = Not Detected

DTW = Depth to Water

E = Ethylbenzene

-- = Not Measured/Not Analyzed

GWE = Groundwater Elevation

X = Xylenes

NP = No purge

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

MTBE = Methyl tertiary butyl ether

OA = Quality Assurance/Trip Blank

TPH-O = Total Petroleum Hydrocarbons as Oil

D. Lead = Dissolved Lead

MTCA = Model Toxics Control Act Cleanup Regulations

(ppb) = Parts per billion

[WAC 173-340-720(2)(a)(I), as amended 02/01].

- Detection limit raised. Refer to analytical reports.
- TPH-D and TPH-O with silica gel cleanup.
- MTBE by EPA Method 8260.
- Laboratory indicates they did not receive the QA samples.

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

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING'

4.

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

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

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

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

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

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Site Address: City:	1206 4	onTexaco ITh Street ville, WA		E	ob Number: vent Date: Sampler:	386696 6-11-04 BWN	(inclusiv
Well ID Well Diameter Total Depth Depth to Water	MV 2	in.	,	Volume Factor (VF)	3/4"= 0.02 4"= 0.66	Well Condition: 1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50 Estimated Purge Volume	3"= 0.38 12"= 5.80
Purge Equipment: Disposable Bailer Stainless Steel Baile Stack Pump Suction Pump Grundfos Other:	er	XVF	Sam Disp Pres Disc	pling Equipment: osable Bailer sure Bailer rete Bailer er:	<u> </u>	Time Started: Time Bailed: Depth to Product: Depth to Water: Hydrocarbon Thicknown Visual Confirmation/ Skimmer / Absorban Amt Removed from Product Transferred	(2400 hrs) (2400 hrs) ft ft ft Description: at Sock (circle one) Skimmel: gal Well: gal
Start Time (pure Sample Time/D Purging Flow F Did well de-wa Time (2400 hr.	Date:i Rate:	300 315 / 6- gpm. h0 Volume (gal.)	11-04 Sedime	her Conditions: Water Color: ent Description: ee: Conductivity (u mhos/cm)	clea	Odor:	ORP (mV)
				BORATORY INF		DV AN	ALYSES
SAMPLE ID MW- MW-		x voa vial x amber	YES YES	HCL HCL	LABORATO LANCASTE LANCASTE	R TPH-G/BTEX/MTB	
COMMENTS	:	14					
Add/Re	olaced L	ock:			Add/Replaced	l Plug:	Size:



SETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

ite Address: 1206 4Th Street Event Date: 6-11-0-1 (inclus	Client/Facility #: Cl	hevronTexacc	#9-9609	Job Number:	386696	
Marysville, WA Sampler: SWN	· · · · · · · · · · · · · · · · · · ·			Event Date:	6-11-07	(inclusi
Vell ID MW- 2	~~~~	The second secon		Sampler:	BWN	
Volume V			ACTION AND ACTION ACTION AND ACTION ACTION ACTION AND ACTION ACTIO	1 01	W. II Conditions (
Volume Sampling Equipment		COLUMN TO THE PROPERTY OF THE PARTY OF THE P	Date Monitored:	10-11-04	. vveii Condition C	1
Sample Equipment: Sampling Equipment: Disposable Bailer Di	Vell Diameter		Volume	3/4"= 0.02		1
Sampling Equipment: Sampling Equipment: Disposable Bailer	otal Depth	19.62 ft.	Factor (V	F) 4"= 0.66	5"= 1.02 6"= 1.50 1	2"= 5.80
Time Started: (2400 hrs) Time Balled: (2400 hrs) Pressure Bailer Discrete Baller Discrete Baller Discrete Baller Discrete Baller Other: Skimmer / Absorbant Sock (circle one) Ant Removed from Well: gal Ant Removed from Well: gal Ant Removed from Well: gal Product Transferred to: Start Time (purge): 330 Weather Conditions: Conductivity Weather Conditions: Sample Time/Date: gpm. Sediment Description: Did well de-water? Wolume (2400 hr.) (gal.) pH Conductivity (umhos/cm) (C/F) (mg/L) (my/L) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY PH-C/BTEX/MTBE MW-2 xember YES HCL LANCASTER TPH-C/BTEX/MTBE MW-1 xember YES HCL LANCASTER TPH-Dx w/sg	epth to Water	9.46 ft.	-		n e de la Maleria	col
Sampling Equipment: Sampling Equipment: Disposable Bailer		xVI	=	_x3 (case volume) = I	processors recommended by the transfer of the second	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAMED IN COLUMN 2 IS N
Disposable Bailer Disposable Bailer Disposable Bailer Disposable Bailer Pressure Bailer Discrete Bailer Discre	urae Fauinment		Sampling Equipmen	i: /	18	
Depth to Water: Stant Time (purge):	-		,	J	8	
Start Time (purge): 330 Weather Conditions: C	•		,		≥ Bi '	Zn
Start Time (purge): 330 Weather Conditions: Skimmer / Absorbant Sock (circle one) Amt Removed from Well: gal Product Transferred to:				pa consocione de la consocione	Hydrocarbon Thickness	
Skimmer / Absorbant Sock (circle one) Ant Removed from Well: gal Ant Remove	•				Visual Confirmation/Desc	hiption:
Artt Removed from Skimmer:			Other.		Olimon / Absorbant Sor	-W(circle one)
Start Time (purge): 330 Weather Conditions: Cloudy Sample Time/Date: 345 / 16-11-01 Water Color: Cloudy Odor: No Od						
Start Time (purge): 330 Weather Conditions: C DUAY Sample Time/Date: 34 9 1 9 1 0 1	Juler:				Amt Removed from Well	
Sample Time/Date: Superior S						
Sample Time/Date: Superior S				,		
Sample Time/Date: Superior S		1000	Market Conditions	· clmade		
Purging Flow Rate: gpm. Sediment Description:		and the state of t	* 4	Commence of the last of the la	Odor: N	D
Did well de-water? Time (2400 hr.) Volume (gal.) pH Conductivity (umhos/cm) (C/F) Temperature (C/F) (mg/L) (mV) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2	Sample Time/Date	: 1345/V-		Control of the Contro	Ouvi. I	
Time (2400 hr.) (gal.) pH Conductivity (umhos/cm) (C/F) (mg/L) (mV) LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2_ (x voa vial YES HCL LANCASTER TPH-G/BTEX/MTBE MW- x amber YES HCL LANCASTER TPH-Dx w/sg	Purging Flow Rate	: gpm.	Sediment Description	Manager Control of the Control of th		
LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY THE LABORATORY THE LABORATORY THE LABORATORY ANALYSES MW- 2	Did well de-water?	<u>no</u>	If yes, Time:	_ Volume:	gal.	
LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY TPH-G/BTEX/MTBE MW- 2	Time o	No. 1. oraș	Conductivity	Temnerature	D.O.	ORP
LABORATORY INFORMATION SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2			mid	•	(mg/L)	(mV)
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2	(4.05 ////	(90)				
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2	Section 1997	-				
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2	Secretary and the secretary an					
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2		-				
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2	DCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			/		
SAMPLE ID (#) CONTAINER REFRIG. PRESERV. TYPE LABORATORY ANALYSES MW- 2						
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MW- 2	I SAMPLE ID	(#) CONTAINER	The same of the sa	The second secon	Y ANALYS	ES
MW- x amber YES HCL LANCASTER TPH-Dx w/sg	CONTRACTOR OF THE PROPERTY OF	The same of the sa		LANCASTER	TPH-G/BTEX/MTBE	
COMMENTS: VP	COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC	and the same of th		LANCASTER	TPH-Dx w/sg	
COMMENTS: VY						
COMMENTS: VP						
COMMENTS: UP						
COMMENTS: UP						
	COMMENTS:	NA				
	- we will a second of the select the					
		**************************************				_
Add/Replaced Lock: Add/Replaced Plug: Size:	Add/Replace	SU LOCK:			Plug:Size:	



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING **FIELD DATA SHEET**

Site Address: City:	ChevronTexaco 1206 4Th Street Marysville, WA	#3-3000	Job Number: Event Date: Sampler:	386696 6-11-04 BWN	(inclusiv
Well ID	MW- 🔼	Date Monitored:	6-11-04	Well Condition: OK	
Well Diameter Total Depth	2 in.	Volume Factor (VI	3/4"= 0.02 4"= 0.66	1"= 0.04 2"= 0.17 3"= 0.3 5"= 1.02 6"= 1.50 12"= 5	1
Depth to Water	9.38 ft. xvF	=	x3 (case volume) =	Estimated Purge Volume:	gal.
Purge Equipment Disposable Bailer Stainless Steel Bai Stack Pump		Sampling Equipmen Disposable Bailer Pressure Bailer Discrete Bailer	t:	Time Started: Time Bailed: Depth to Product: Depth to Water: Hydrocarbon Thickness: Visual Confirmation/Description	(2400 hrs) (2400 hrs) ft ff ft n:
Suction Pump Grundfos Other:		Other:		Skimmer / Absorbant Sock (cir Amt Removed from Skimmer: Amt Removed from Well: Product Transferred to:	rcle one) gal
Start Time (pu Sample Time/ Purging Flow Did well de-w	Date: 1415 / 16-1 Rate: gpm.	Weather Condition: \(\subseteq \delta \subseteq \delta \) Sediment Description f yes, Time:	n: <u>elear</u>	Odor: <u>'∕∕〉</u> gal.	
Time (2400 h	Volume	pH Conductivity (u mhos/cm)	Temperature (C/F)	5.0.	RP nV)
		L AROPATORY II	NFORMATION	ORY ANALYSES	
SAMPLE I MW-		REFRIG. PRESERV. TY YES HCL YES HCL	PE LABORATO LANCAST	ER TPH-G/BTEX/MTBE	

Chevron Northwest Region Analysis Request/Chain of Custody



Acct. #: 10906 Sample #: 4296339-42

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Site Address: 1206 4th Street, MARYSVILLE	: WA	TO THE REPORT OF THE PROPERTY	COMPANY OF THE PROPERTY OF THE		盲				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 = Other
Chevron PM: Lead C	Consultant:S	ECORUL	e S	800	Nap.				☐ J value reporti	ng needed
Consultant/Office: _G_R, Inc 6747 Sierra Co	urt, Suite J, C	ublin, Ca. 9456	S S S S S S S S S S S S S S S S S S S	of Containers	S280 □ Naphrfr □		20 Sept. 1	□ duantification	Must most low	e <mark>et detection limits</mark> 60 compounds
Consultant Prj. Mgr.: Deanna L. Harding (de	anna@grinc.	com)		3			SS. Certain St. Ce	Jan.	8021 MTBE Con	
Consultant Phone #: 925_551_7555	_ Fax #:)25-551-78 99 -			8021	8			Confirm MTB	ž.
Sampler: Ben Northan							3 31 1	1 2 1	Confirm highe	st hit by 8260
Service Order #: No.	n SAR:	SECONMODISTRATION OF		, 2	¥ 5	O HE		基	Confirm all hits	
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SA	6-11-04	X	TX	2	λ	X			Comments / R	omarks
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MW-Z		1345 X	$ \chi $	6	X	X			voca navana nagrapa (mandata kaina la	
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Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the citerit.

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ANALYTICAL RESULTS

Prepared for:

ChevronTexaco c/o SECOR 2301 Leghorn Street Mountainview CA 94043

650-691-0131

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 900595. Samples arrived at the laboratory on Friday, June 18, 2004. The PO# for this group is 99011184 and the release number is MTI.

	Lancaster Labs Number
Client Description	4296339
QA Water Sample	4296340
MW-1 Grab Water Sample	4296341
MW-2 Grab Water Sample	4296342
MW-3 Grab Water Sample	,00

1 COPY TO ELECTRONIC COPY TO ELECTRONIC COPY TO Secor Inter. C/O Gettler-Ryan

Gettler-Ryan

SECOR International

Attn: Deanna L. Harding Attn: Michael Sharaeff

Attn: Madeline Montilla



2465 has Herry Pas PO Ris 19455 (assaure, he 1745)-565 - 117-66-664) Fas 717-66-669 - mandateaste did (est)

Questions? Contact your Client Services Representative Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

Victoria M. Martell

Chemist



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Lancaster Laboratories Sample No. WW 4296339

QA Water Sample Facility# 99609 Job# 386696 MTI# 99609.01 1206 4th Street - Marysville, WA

Collected:06/11/2004

Submitted: 06/18/2004 09:10 Reported: 06/25/2004 at 11:16

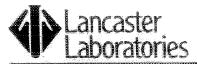
Discard: 07/26/2004

Account Number: 10906

ChevronTexaco c/o SECOR 2301 Leghorn Street Mountainview CA 94043

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. N.D. N.D.	0.5 0.5 0.5 1.5 2.5	ug/1 ug/1 ug/1 ug/1 ug/1	1 1 1 1
08274	TPH by NWTPH-Gx waters				/ 1	1
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	-

		Laboratory	Chro	NICLE Analysis		Dilution
CAT No. 02159 08274 01146	Analysis Name BTEX, MTBE TPH by NWTPH-Gx waters GC VOA Water Prep	Method SW-846 8021B NWTPH-Gx - 8015B Mod. SW-846 5030B	1	Date and Time 06/21/2004 18:45 06/21/2004 18:45 06/21/2004 18:45	Analyst Linda C Pape Linda C Pape Linda C Pape	Factor 1 1 n.a.



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Lancaster Laboratories Sample No. WW 4296340

MW-1 Grab Water Sample Facility# 99609 Job# 386696 MTI# 99609.01 1206 4th Street - Marysville, WA

Collected:06/11/2004 13:15 by

Submitted: 06/18/2004 09:10 Reported: 06/25/2004 at 11:16

Discard: 07/26/2004

Account Number: 10906

ChevronTexaco c/o SECOR . 2301 Leghorn Street Mountainview CA 94043

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	· Dilution Factor
02159	BTEX, MTBE					
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. N.D. N.D.	0.5 0.5 0.5 1.5 2.5	ug/l ug/l ug/l ug/l ug/l	1 1 1 1
08274	TPH by NWTPH-Gx waters		· · ·	, .		
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

		Laboratory	Chro	nicle Analysis		Dilution
CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Factor
02159	BTEX, MTBE	SW-846 8021B		06/21/2004 23:10	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.		06/21/2004 23:10	Linda C Pape Linda C Pape	n.a.
01146	GC VOA Water Prep	SW-846 5030B	1	06/21/2004 23:10	Tition c rape	22100



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4:30

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Lancaster Laboratories Sample No. WW 4296341

MW-2 Grab Water Sample Facility# 99609 Job# 386696 MTI# 99609.01 1206 4th Street - Marysville, WA

Collected:06/11/2004 13:45

by BN

Submitted: 06/18/2004 09:10 Reported: 06/25/2004 at 11:16

Discard: 07/26/2004

Account Number: 10906

ChevronTexaco c/o SECOR 2301 Leghorn Street Mountainview CA 94043

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
02159	BTEX, MTBE	• •				
02161 02164 02166 02171 02172	Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	71-43-2 108-88-3 100-41-4 1330-20-7 1634-04-4	N.D. N.D. 2.1 N.D. N.D.	0.5 0.5 0.5 1.5 2.5	ug/l ug/l ug/l ug/l ug/l	1 1 1 1
08274 01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

	.*	Laboratory	Chro	nicle Analysis		Dilution
CAT No. 02159 08274 01146	Analysis Name BTEX, MTBE TPH by NWTPH-Gx waters GC VOA Water Prep	Method SW-846 8021B NWTPH-Gx - 8015B Mod. SW-846 5030B	. 1	Date and Time 06/21/2004 23:44 06/21/2004 23:44 06/21/2004 23:44	Analyst Linda C Pape Linda C Pape Linda C Pape	Factor 1 1 n.a.



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Lancaster Laboratories Sample No. WW 4296342

MW-3 Grab Water Sample
Facility# 99609 Job# 386696 MTI# 99609.01
1206 4th Street - Marysville, WA
Collected:06/11/2004 14:15 by BN

Submitted: 06/18/2004 09:10 Reported: 06/25/2004 at 11:16

Discard: 07/26/2004

Account Number: 10906

ChevronTexaco c/o SECOR 2301 Leghorn Street Mountainview CA 94043

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	, Units	''Dilution Factor
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.5	ug/l	1
02164	Toluene	108-88-3	N.D.	0.5	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.5	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
08274	TPH by NWTPH-Gx waters					
01648	TPH by NWTPH-Gx waters	n.a.	N.D.	50.	ug/l	1

		Laboratory	Chro	nicle		
CAT		**		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02159	BTEX. MTBE	SW-846 8021B	1	06/22/2004 00:17	Linda C Pape	1
08274	TPH by NWTPH-Gx waters	NWTPH-Gx - 8015B Mod.	1	06/22/2004 00:17	Linda C Pape	1
01146	GC VOA Water Prep	SW-846 5030B	1	06/22/2004 00:17	Linda C Pape	n.a.



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Quality Control Summary

Client Name: ChevronTexaco c/o SECOR

Reported: 06/25/04 at 11:16 AM

Group Number: 900595

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank <u>MDL</u>	Report <u>Units</u>	LCS %REC	LCSD %REC	Limits	RPD	RPD Max
Batch number: 04173A56A TPH by NWTPH-Gx waters Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample non N.D. N.D. N.D. N.D. N.D. N.D.	umber(s): 0.048 0.5 0.5 1.5 2.5	4296339-42 mg/l ug/l ug/l ug/l ug/l ug/l	96342 94 95 96 94 95 102	97 100 103 101 102 107	70-130 79-123 82-119 81-119 82-120 75-125	4 5 6 7 7 4	30 30 30 30 30 30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP <u>RPD</u>	Max Max
Batch number: 04173A56A TPH by NWTPH-Gx waters Benzene Toluene Ethylbenzene Total Xylenes Methyl tert-Butyl Ether	Sample 104 110 112 110 110	e numbei	(s): 429633 63-154 67-136 78-129 75-133 86-132 59-148	9-4296	342		·		

Surrogate Quality Control

Analysis Name: TPH by NWTPH-Gx waters

Batch number: 04173A56A

Batch numb	Trifluorotoluene-P	Trifluorotoluene-F	
4296339	113	114	
4296340	112	116	
4296341	113	112	
4296342	111	109	
Blank	112	110	
LCS	112	110	
LCSD	112	114	
MS	111	114	
Limits:	66-136	57-146	

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Page 2 of 2

Quality Control Summary

Client Name: ChevronTexaco c/o SECOR

Reported: 06/25/04 at 11:16 AM

Group Number: 900595

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

	•		
N.D.	none detected	BMQL	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	MPN	
lU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
mea	millieguivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	!	liter(s)
m3	cubic meter(s)	ul	microliter(s)
			_

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis

 Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

X,Y,Z

0	Data Qualifore.		
	Organic Qualifiers		Inorganic Qualifiers
A B C D E	TIC is a possible aldol-condensation product Analyte was also detected in the blank Pesticide result confirmed by GC/MS Compound quantitated on a diluted sample Concentration exceeds the calibration range of the instrument	B E M N S	Value is <crdl, (msa)="" additions="" but="" calculation<="" control="" due="" duplicate="" estimated="" for="" injection="" interference="" limits="" met="" method="" not="" of="" precision="" sample="" spike="" standard="" th="" to="" used="" within="" ≥idl=""></crdl,>
N P U	Presumptive evidence of a compound (TICs only) Concentration difference between primary and confirmation columns >25% Compound was not detected	U W *	Compound was not detected Post digestion spike out of control limits Duplicate analysis not within control limits Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Defined in case narrative

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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