August 20, 2009

Ms. Olivia Skance
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3636
San Ramon, CA 94583-5186

Subject: **Second Quarter 2009 Groundwater Monitoring Report**
Former Tidewater Service Station No. 30-3189
7301 MLK Jr. Way South
Seattle, Washington

Dear Ms. Skance:

Science Applications International Corporation (SAIC), on behalf of Chevron Environmental Management Company (Chevron), has prepared this letter summarizing the latest groundwater monitoring and sampling results from the above referenced site in Seattle, Washington. The second quarter 2009 groundwater monitoring and sampling event was conducted by Gettler-Ryan Inc. on April 24, 2009.

Groundwater elevation and analytical data are presented along with field data sheets and a laboratory analytical report in the Gettler-Ryan Inc. *Groundwater Monitoring and Sampling Report*, which is included in Attachment A.

1.0 FIELD ACTIVITIES

Depth-to-groundwater measurements were collected from each of the three monitoring wells (MW-1, MW-2 and MW-3) present at the site. Each monitoring well was also checked for the presence of separate-phase hydrocarbon (SPH). SPH was not detected in any of the monitoring wells gauged during this event.

At the time of this monitoring event, groundwater elevations ranged from 97.87 feet in monitoring well MW-3 to 91.71 feet in monitoring well MW-2, based on an arbitrary benchmark of 100.00 feet Groundwater flow at the time of this event was towards the north-northeast at an approximate gradient of 0.08 per foot (ft/ft).

Groundwater samples were collected from each of the three monitoring wells at the site and submitted to Lancaster Laboratories of Lancaster, Pennsylvania for the following analyses:

- Gasoline-range hydrocarbons by Washington State Department of Ecology (WDOE) Method NWTPH-Gx;
- Diesel- and heavy oil-range hydrocarbons by WDOE Method NWTPH-D extended; and
- Benzene, toluene, ethylbenzene, total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by United States Environmental Protection Agency (USEPA) Method 8260B.

2.0 ANALYTICAL RESULTS

Total Petroleum Hydrocarbons (TPH) as Gasoline-range hydrocarbons (TPH-G) were detected in monitoring well MW-2 at a concentration of 16,000 micrograms per liter (µg/L) which exceeds the 800 µg/L Model Toxics Control Act (MTCA) Method A Cleanup Level (CUL) for TPH-G.

TPH as diesel-range hydrocarbons (TPH-D) were detected in monitoring well MW-1 at a concentration of 650 µg/L which exceeds the 500 µg/L MTCA Method A CUL for TPH-D. Heavy oil-range hydrocarbons were not detected at concentrations above the 500 µg/L MTCA Method A CUL for heavy oil in any of the monitoring wells sampled. Groundwater samples for analysis of diesel- and heavy oil-range hydrocarbons could not be collected from monitoring well MW-2 due to insufficient water.

Benzene, ethylbenzene, and total xylenes were detected in exceedance of their respective MTCA Method A CULs in monitoring well MW-2, at concentrations of 4,100 µg/L, 1,500 µg/L, and 2,000 µg/L respectively. Toluene was not detected above the MTCA Method A CUL of 1,000 µg/L in any of the monitoring wells sampled during this event. MTBE was not reported at concentrations exceeding its laboratory reporting limit in any of the monitoring wells sampled during this event.

3.0 SUMMARY

Groundwater concentrations appear to be consistent with analytical data collected during the previous sampling event performed at this site in August 2008. Concentrations of diesel-range hydrocarbons decreased slightly in monitoring wells MW-1 and MW-3. The concentrations of gasoline-range hydrocarbons in monitoring well MW-2, while still elevated, decreased significantly from the previous sampling round. Additional groundwater sampling data will be required before trends in analyte concentrations can be confirmed. The next groundwater sampling event at this site is scheduled for August 2009.

Please contact the below undersign if you have any questions or comments about the information provided herein 425-482-3321 or at catterallp@saic.com.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Peter Catterall
Project Manager

Enclosures:

Attachment A: Gettler-Ryan Inc. - *Groundwater Monitoring & Sampling Report*, Event of April 24, 2009, Former Tidewater Service Station No. 30-3189, 7301 MLK Jr. Way South, Seattle, Washington

cc: WDOE, Northwest Regional Office, Toxics Cleanup Program
Mr. Larry Hard, Seattle Housing Authority
Project File

Accession #: 16102.20090821.001

Attachment A:
Gettler-Ryan Inc. – Groundwater Monitoring and Sampling Report
Event of April 24, 2009, Former Tidewater Service Station No. 30-3189
7301 MLK Jr. Way South, Seattle, Washington

GETTLER-RYAN INC.

TRANSMITTAL

June 22, 2009
G-R #385862

TO: Mr. Peter Catterall
SAIC
18912 North Creek Parkway, Ste. 101
Bothell, Washington 98011

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron Facility
#303189
(Former Tidewater Service Stn.)
7301 MLK Jr. Way South
Seattle, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
4	May 21, 2009	Groundwater Monitoring and Sampling Report **Event of April 24, 2009**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced report for **your use and distribution to the following:**

Ms. Olivia Skance, Chevron Environmental Management Company, 6111 Bollinger Canyon Road, Ste. 3636, San Ramon, CA 94583
Mr. Larry Hard, Seattle Housing Authority, P.O. Box 19028, Seattle, Washington 98109-1028
Washington State Department of Ecology, Northwest Region, Toxics Cleanup Program, 3190 160th Avenue SE, Bellevue, WA 98008

☑ *Current Site Check List included.*

Enclosure

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • **Petaluma**, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #303189** Date: 4-24-09
Address:	**7301 Martin Luther King Jr. Way South**
City/St.:	**Seattle,WA**
Status of Site:	VACANT LOT

DRUMS: Please list below ALL DRUMS @ site: i.e., drum description, condition, labeling, contents, location of drum:

#	Description	Condition	Labeling	Contents	Location
	NO				
	DRUMS				

WELLS: Please check the condition of ALL WELLS @ site: i.e., well box condition, well plug, well lock, etc.:

Well ID	Well Box	Bolts	Well Plug	Well Lock	Other
MW-1	OK	OK	Replaced	OK	
MW-2	↓	↓	OK	↓	
MW-3	↓	↓	OK	↓	

Additional Comments/Observations:

GETTLER-RYAN INC.

May 21, 2009
Job #386795

Ms. Olivia Skance
Chevron Environmental Management Company
P.O. Box 6012, Room 3636
San Ramon, CA 94583

RE: Event of April 24, 2009
Groundwater Monitoring & Sampling Report
Chevron Facility (Former Tidewater) #303189
7301 Martin Luther King Jr. Way S.
Seattle, Washington

Dear Mr. Skance:

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 Figures 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. Purge water was treated by filtration through granular activated carbon and was subsequently discharged. 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

Douglas J. Lee
Senior Geologist, L.G. No. 2660

State of Washington
2660
Licensed Geologist
Douglas J. Lee

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

SOUTH OTHELLO STREET

MARTIN LUTHER KING JR. WAY SOUTH

Utility Vault

Former Building

MW-2
91.71

Former USTS

Sidewalk

93.00

Parking Lot

Former Station Building

Former Canopy / Pump Island

95.00

Former Building

MW-1
97.30

Former Restaurant

97.00

MW-3
97.87

Former Building

EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level
- 99.99 — Groundwater elevation contour, dashed where inferred

Approximate groundwater flow direction at a gradient of 0.08 Ft./Ft.

N

0 20

Scale in Feet

Source: Figure modified from drawing provided by SAIC, Site Map, Figure 1, Dated: 01/11/08..

FIGURE 1

POTENTIOMETRIC MAP
Chevron Facility (Former Tidewater) #303189
7301 Martin Luther King Jr. Way South
Seattle, Washington

REVISED DATE

DATE
April 24, 2009

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

PROJECT NUMBER
385862

REVIEWED BY

FILE NAME: P:\Enviro\Chevron\303189\009-303189.dwg | Layout Tab: Pot2

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Facility (Former Tidewater) #303189
7301 Martin Luther King Jr. Way S.
Seattle, Washington

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-DRO (µg/L)	TPH-HRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	T. LEAD (µg/L)
MW-1													
08/31/07[1]		--	--	--	930	190	<50	<0.5	<0.5	<0.5	<1.5	--	0.052
04/24/09	**PER**	**99.66**	**2.36**	**97.30**	**650**	**<76**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
MW-2													
08/31/07[1]		--	--	--	2,100	1,200	26,000	3,200	190	1,400	3,300	--	--
04/24/09	**PER**	**99.05**	**7.34**	**91.71**	**--[2]**	**--[2]**	**16,000**	**4,100**	**99**	**1,500**	**2,000**	**<3**	**--**
MW-3													
08/31/07[1]		--	--	--	120	<100	<50	<0.5	<0.5	<0.5	<1.5		0.055
04/24/09	**PER**	**100.00**	**2.13**	**97.87**	**58**	**<75**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
B-9													
05/01/02[1]		--	--	--	0.660	0.310	32	530	<100	1,600	4,300	--	--
B-10													
05/01/02[1]		--	--	--	5.10	<0.0630	26	240	110	240	330	--	--
TRIP BLANK													
QA													
04/24/09		--	--	--	--	--	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**

	TPH-DRO	TPH-HRO	TPH-GRO	B	T	E	X	MTBE	T. LEAD
Standard Laboratory Reporting Limits:	--	--	50	0.5	0.5	0.5	0.5	1	--
MTCA Method A Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000	0.5	15
Current Method:	NWTPH-Dx + Extended		NWTPH-Gx and EPA 8021B/8260B						EPA 7421

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Facility (Former Tidewater) #303189
7301 Martin Luther King Jr. Way S.
Seattle, Washington

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to April 24, 2009, were compiled for wells MW-1, MW-2, and MW-3 by Scientific International Corporation prior. Results for wells B-9 and B-10 were provided by GeoEngineers.

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
HRO = Oil Range Organics

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
(µg/L) = Micrograms per liter
PER = Peristaltic Pump

< = The analyte was not detected at or above the reported value.
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank
MTCA = Model Toxics Control Act Cleanup Regulations
[WAC 173-340-720(2)(a)(I), as amended 02/01].

* TOC elevations are expressed in feet relative to an arbitrary datum.

ANALYTICAL METHOD:

Prior to April 24, 2009, Benzene, Toluene, Ethylbenzene, Xylene Analysis by USEPA 8021
Gasoline-range hydrocarbons (TPH-GRO) Method NWTPH-Gx.
Diesel- and lube oil-range hydrocarbons (TPH-DRO) by Method NWTPH-Dx.
TPH-DRO and TPH-HRO analyzed with silica gel cleanup
BTEX and MTBE Analysis by Method 8260B

[1] Data provided by SAIC.
[2] Not sampled due to insufficient water.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

Standard Operating Procedure, Low-Flow Purging and Sampling

This procedure is designed to assist the user in taking representative groundwater samples from groundwater monitoring wells. Samples will be collected using low-flow (minimal drawdown) purging and sampling methods as discussed in U.S. EPA, Ground Water Issue, Publication Number EPA/540/S-95/504, April 1996 by Puls, R.W. and M.J. Barcelona - "Low-Flow (Minimal Drawdown) Ground-water Sampling Procedures."

The field sampler's objective is to purge and sample the well so that the water that is discharged from the pump, and subsequently collected, is representative of the formation water from the aquifer's identified zone of interest.

The wells to be sampled are equipped with QED Well Wizard™ bladder (squeeze-type) pumps or Peristaltic Pumps Each bladder pump or the suction inlet tubing of the peristaltic pump is positioned with its inlet located within the screened interval of the well. The down well equipment includes a bladder pump or Teflon-lined PE (polyethylene) tubing.

Initial Pump Flow Test Procedures

If possible, the optimum flow rate for each well will be established during well development or redevelopment, or in advance of the actual sampling event. The monitoring well must be gauged for Static Water Level (SWL) prior to the installation of the pump and before pumping of any water from the well. The measurement will be documented on a Low Flow Ground Water Sample Collection Record, or field data sheet.

After pump installation, and confirmation that the SWL has returned to its original level (as determined prior to pump installation), the bladder pump or peristaltic pump should be started at a discharge rate between 100 ml to 300 ml per minute without any in-line flow cell connected. The water level in the well casing must be monitored continuously for any change from the original measurement. If significant drawdown is observed, the pump's flow rate should be incrementally reduced until the SWL drawdown ceases and stabilizes. Total drawdown from the initial (static) water level should not exceed 25% of the distance between pump inlet location and the top of the well screen. (For example, if a well has a 10-foot screen zone and the pump inlet is located mid-screen; the maximum drawdown should be 1.25 feet.) In any case, the water level in the well should not be lowered below the top of the screen/intake zone of the well.

Once the specific well's optimum discharge rate, without an in-line flow cell connected, has been determined and documented, the in-line flow cell system to be used is connected to the well discharge and the control settings required to achieve the well's optimum discharge rate are determined with the in-line flow cell connected. (Due to the system's back-pressure, the discharge rate will be decreased by 10-20%). All control settings are to be documented on the gauging and sampling sheet as specific to that particular well's ID and will be utilized for its subsequent purging and sampling events.

Purge and Sampling Events

Prior to the initiation of purging a well, the SWL will be measured and documented. The pump will be started utilizing its documented control settings and its discharge rate will be confirmed by volumetric discharge measurement with the in-line flow cell connected. If necessary, any minor modifications to the control settings to achieve the well's optimum discharge rate will be documented on the gauging sheet. When the optimum pump flow rate has been established, the SWL draw down has stabilized within the required range and at least one pump system volume (bladder volume + discharge tubing volume) has been purged, begin taking field measurements for pH, temperature (T), conductivity (Ec), oxygen reduction potential (ORP) and dissolved oxygen (DO) using a "QED" Model MP-20 in-line flow cell, or other multi-parameter meter. All water chemistry field measurements will be documented on the field data sheet. Measurements should be taken every three to five minutes until stabilization has been achieved. Stabilization is achieved after all parameters have stabilized for three consecutive readings. In lieu of measuring all five parameters, a minimum subset would include pH, conductivity and dissolved oxygen. Three consecutive measurements indicating stability should be within:

Temperature	± 10%
pH	± 0.1 units
Conductance	± 03

When water quality parameters have stabilized, and there has been no change in the stabilized SWL (ie. No continuous draw down), sample collection may begin.

Equipment List

The following equipment is needed to conduct low flow purging and sampling:

- Bladder pump installed within the well's screened interval
- Pump controller and air source set to operate at the specific well's documented optimum discharge rate
- In-line flow cell and meter(s) with connection fittings and tubing to measure water quality
- Water level probe or installed dedicated water level measurement system
- Sample containers appropriate for the analytical requirements
- Low Flow Ground Water Sample Collection Record, or field data sheets
- 300-500 milliliter graduated cylinder or measuring cup
- 5 gallon bucket(s) for collecting purge water
- Wristwatch with second hand or stopwatch
- Sufficient cleaning and decontamination supplies if portable water level probe is utilized
- Peristaltic pump & tubing, in place of bladder pump, if applicable
- Multi-parameter meter, in place of in-line flow cell, if applicable

Procedure QED Bladder Pumps

1. Calibrate all field instruments at the start of each day's deployment per the instrument manufacturer's instructions. Record calibration data on the "Field Instruments Calibration Documentation Form."
2. Drive to the first well scheduled to be sampled (typically the least contaminated). Make notes in the field logbook, describing the well condition and activity in the vicinity of the well. Decontaminate the portable water gauging probe by washing with phosphate-free detergent, rinsing with potable water.
3. Measure the depth to water from the surveyed reference mark on the wellhead and record the measurement on the gauging and sampling sheet. Lock the water level meter in place so that the level can be monitored during purging and sampling. When placing the probe in the well, take precautions to not disturb or agitate the water.
4. Connect the compressed air source's airline to the pump controller's "AIR IN" connection (If utilizing a gas-engine operated compressor, locate the compressor at least 25 feet, down wind from the wellhead).
5. Connect the pump controller "AIR OUT" air-line to the bladder pump's air supply fitting at the wellhead.
6. Connect the pump discharge line to the in-line flow cell's "IN" fitting.
7. Connect the flow cell's "OUT" line and secure to drain the purge water into the purge water collection container.
8. Start the air supply to the pump. Set the pump controller settings to the documented settings for the specific well. Confirm the flow rate is equal to the well's established optimum flow rate. Modify as necessary (documenting any required modifications).
9. Monitor the water level and confirm that the SWL draw down has stabilized within the well's allowable limits.
10. After a single pump-system's volume (bladder volume + discharge tubing volume) has been adequately purged, read and record water quality field measurements every three to five minutes until all parameters have stabilized within their allowable ranges for at least three consecutive measurements. When stabilization has been achieved, sample collection may begin.
11. Disconnect the flow cell, and it's tubing, from the pump discharge line before collecting samples. Decrease the pump rate to 100 milliliters per minute or less by lowering the controller's air pressure setting prior to collecting samples for volatiles. Utilize the QED Model 400 Controller's 'MANUAL SAMPLE' button to ensure minimized sample exposure to the ambient air. Refer to

the task instructions for the correct order and procedures for filling sample containers. Place the samples in a cooler with enough ice to keep them at 4 degrees Centigrade.

12. Once samples for volatiles have been collected, re-establish pump flow rate to the original purge flow rate by inputting the documented controller settings for the well without the in-line flow cell connected and collect remaining samples.
13. When all sample containers have been filled, make a final measurement of the well's SWL and record the measurement on the gauging and sampling sheet. If the well has a "QED" dedicated bottom sounder, measure the well's total depth and record the measurement, as well.
14. Measure and record total purge volume collected. Consolidate generated purge water.
15. Remove and decontaminate the portable water level probe with phosphate-free detergent, rinsing with potable water.
16. Disconnect the controller air supply to the pump.
17. Secure the pump's discharge line/discharge adapter in the wellhead.
18. Secure the wellhead cover and secure with its lock. Move equipment to next well to be sampled.
19. At the end of each day, post calibrate all field instruments and record the measurements on the "Field Calibration Documentation Form".
20. Clean and decontaminate the in-line flow cell with phosphate-free detergent, rinsing with potable water.

Procedure Peristaltic Pump

1. Record all depth to water readings on field data sheets
2. Calibrate all field instruments according to manufacturer's directions.
3. Setup pump and install silicone tubing in the roller head.
4. Place suction tubing at desired intake level in well, (mid screen) and attach to the intake side of the pump roller head.
5. Attach tubing at discharge side of pump head and place in collection container.
6. Start pump and adjust flow rate to achieve flow without depressing water level more than necessary (approx. 0.30').
7. Record parameter readings after parameters have stabilized (3 consecutive readings that fall within the acceptance criteria).
8. Decrease the flow rate of the pump to achieve approximately 100ml/min. when collecting samples.
9. Change all tubing between wells and repeat procedure.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #303189 Job Number: 385862
Site Address: 7301 Martin Luther King Jr. Way S Event Date: 4-24-09 (inclusive)
City: Seattle,WA Sampler: ML

Well ID MW-1 Date Monitored: 4-24-09
Well Diameter .75 in.
Total Depth 11.52 ft.
Depth to Water 2.36 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

9.16 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	X
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1500 Weather Conditions: Sunny
Sample Time/Date: 1525 / 4-24-09 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 200 ml/min. Sediment Description: None
Did well de-water? NO If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 2.40

Time (2400 hr.)	Volume (gal.) L	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1510	2	6.51	799	16.1			2.40
1513	2.6	6.55	803	16.1			2.41
1516	3.2	6.57	805	16.2			2.40

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS:

Add/Replaced Lock: ____ Add/Replaced Plug: X Add/Replaced Bolt: ____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #303189 | Job Number: 385862
Site Address: 7301 Martin Luther King Jr. Way S | Event Date: 4-24-09 (inclusive)
City: Seattle,WA | Sampler: ML

Well ID: MW-2
Well Diameter: .75 in.
Total Depth: 9.42 ft.
Depth to Water: 7.34 ft.
2.08 xVF — = —

Date Monitored: 4-24-09

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump X
QED Bladder Pump
Other:

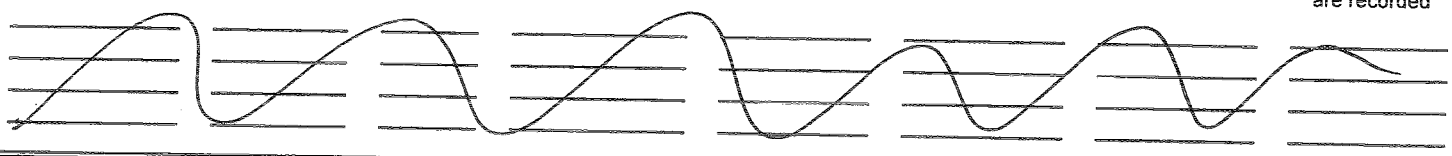
Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
Peristaltic Pump X
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1545
Sample Time/Date: 1615 / 4-24-09
Approx. Flow Rate: 200 mL gpm.
Did well de-water? Yes If yes, Time: 1547 Volume: 400 mL DTW @ Sampling: 7.56

Weather Conditions: Sunny
Water Color: Cloudy Odor: (Y) N
Sediment Description: Light

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded



LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	~~x1 liter amber~~	~~YES~~	~~HCL~~	~~LANCASTER~~	~~NWTPH-Dx w/sg~~

COMMENTS: Well Dewatered, Waited for well to recover and Sampled. Only able to collect 6 VOAs because of ~~Recovery~~ insufficient water

Add/Replaced Lock: — Add/Replaced Plug: — Add/Replaced Bolt: —

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #303189 Job Number: 385862
Site Address: 7301 Martin Luther King Jr. Way S Event Date: 4-24-09 (inclusive)
City: Seattle,WA Sampler: ML

Well ID MW-3 Date Monitored: 4-24-09
Well Diameter .75 in.
Total Depth 9.49 ft.
Depth to Water 2.13 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

7.36 xVF — = — x3 case volume = Estimated Purge Volume: — gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump X
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Discrete Bailer
Peristaltic Pump X
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1415 Weather Conditions: Sunny
Sample Time/Date: 1440 / 4-24-09 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: 200 ml/min. Sediment Description: medium
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 2.18

Time (2400 hr.)	Volume ~~Gal.~~ L	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1425	2	6.63	510	17.7			2.16
1428	2.6	6.68	514	17.8			2.17
1431	3.2	6.64	511	17.8			2.18

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/BTEX+MTBE(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sg

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories — Where quality is a science.

AMENDED

Acct. #: 11260 — For Lancaster Laboratories use only — Sample #: 5665716-9 — SCR#:

Grp# 1142104

Facility #: SS#303189-OML G-R#385862

Site Address: 7301 Martin Luther King Jr. Way South, SEATTLE, WA

Chevron PM: OS — Lead Consultant: SAICPC

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 — Fax #: 925-551-7899

Sampler: Mike Lombard

Service Order #: ____ ☐ Non SAR: ____

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8021 ☐ 8260 ☒ Naphth ☐	8260 full scan	Oxygenates	TPH Gx	TPH Dx (☐ Extended Rng. ☐ Silica Gel Cleanup)	Lead Total ☐ Diss. ☐ Method ____	VPH/EPH	NWTPH HCID ☐ quantification	Preservation Codes
QA	04-24-09		X			X		2	X			X					
MW-1		1525	X			X		8	X			X	X				
MW-2		1615	X			X		6	X			X					
MW-3	↓	1410	X			X		8	X			X	X				

Analyses Requested

Preservative Codes

H = HCl — T = Thiosulfate
N = HNO_3 — B = NaOH
S = H_2SO_4 — O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Please amend the COC the collection date of 04-24-09

Chad Herron 5-19-09

Turnaround Time Requested (TAT) (please circle)

STD. TAT — 72 hour — 48 hour
24 hour — 4 day — 5 day

Data Package Options (please circle if required) — EDF/EDD

QC Summary — Type I - Full
Type VI (Raw Data) — Disk / EDD
WIP (RWQCB) — Standard Format
Disk — Other

Relinquished by:	Date	Time	Received by:	Date	Time
	4-27-09	1730			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other			Received by:	Date	Time
Temperature Upon Receipt ____ C°			Custody Seals Intact? Yes No		

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 11260 For Lancaster Laboratories use only Sample #: 565516-19 SCR#:

Grp# 1142104

Facility #: SS#303189-OML G-R#385862
Site Address: 7301 Martin Luther King Jr. Way South, SEATTLE, WA
Chevron PM: OS Lead Consultant: SAICPC
Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568
Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
Sampler: Mike Lombard
Service Order #: ☐ Non SAR:

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water (Potable ☐ NPDES ☐)	Oil ☐ Air ☐	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐	8260 full scan	Oxygenates ___	TPH G	TPH D	Extended Rng. ☐ Silica Gel Cleanup ☐	Lead Total ☐ Diss. ☐ Method ___	VPH/EPH	NWTPH HCID ☐ quantification ☐
QA			X			X		2	X			X					
MW-1		1525	X			X		8	X			X	X				
MW-2		1615	X			X		6	X			X					
MW-3		1440	X			X		8	X			X	X				

Preservative Codes: H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, O = Other

☐ J value reporting needed
☐ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm MTBE + Naphthalene
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy s on highest hit
☐ Run ____ oxy s on all hits

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)
STD. TAT | 72 hour | 48 hour | 24 hour | 4 day | 5 day

Data Package Options (please circle if required) **EDF/EDD**
QC Summary | Type I - Full
Type VI (Raw Data) | Disk / EDD
WIP (RWQCB) | Standard Format
Disk | ____ Other.

Relinquished by:	Date	Time	Received by:	Date	Time
	4/24/19	1730			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other ____			Received by: Katie Hartlage	4/25/19	10:00

Temperature Upon Receipt 4.7-5.3 C° Custody Seals Intact? Yes No

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

June 19, 2009

SAMPLE GROUP

The sample group for this submittal is 1142104. Samples arrived at the laboratory on Saturday, April 25, 2009. The PO# for this group is 0015045667 and the release number is SKANCE.

Client Description	Lancaster Labs Number
QA Water Sample	5655716
MW-1 Grab Water Sample	5655717
MW-2 Grab Water Sample	5655718
MW-3 Grab Water Sample	5655719

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Chronicle.

ELECTRONIC COPY TO SAIC c/o Gettler-Ryan Attn: Cheryl Hansen

Lancaster Laboratories

Analysis Report

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Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5655716

Group No. 1142104
WA

QA Water Sample
Facility# 303189 Job# 385862
7301 Martin Luther King Jr Way S - Seattle, WA

Collected: 04/24/2009

Account Number: 11260

Submitted: 04/25/2009 10:00
Reported: 06/19/2009 at 15:10
Discard: 07/20/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MLKQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
ECY 97-602 NWTPH-Gx	**GC Volatiles**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	Z091192AA	04/29/2009 11:29	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091192AA	04/29/2009 11:29	Ginelle L Feister	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09117A20A	04/27/2009 17:52	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09117A20A	04/27/2009 17:52	Fanella S Zamcho	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5655717

Group No. 1142104
WA

MW-1 Grab Water Sample
Facility# 303189 Job# 385862
7301 Martin Luther King Jr Way S - Seattle, WA

Collected: 04/24/2009 15:25 by ML

Account Number: 11260

Submitted: 04/25/2009 10:00
Reported: 06/19/2009 at 15:10
Discard: 07/20/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MLKM1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
ECY 97-602 NWTPH-Gx	**GC Volatiles**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
ECY 97-602 NWTPH-Dx modified	**GC Extractable TPH w/Si Gel**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	650	33	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	76	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	Z091192AA	04/29/2009 11:54	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091192AA	04/29/2009 11:54	Ginelle L Feister	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09117A20A	04/28/2009 00:25	Fanella S Zamcho	1
01146	GC VOA Water Prep	SW-846 5030B	1	09117A20A	04/28/2009 00:25	Fanella S Zamcho	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	091260016A	05/08/2009 08:43	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	091260016A	05/07/2009 02:00	Roman Kuropatkin	1

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Analysis Report

Lancaster Laboratories Sample No. WW 5655718

Group No. 1142104
WA

MW-2 Grab Water Sample
Facility# 303189 Job# 385862
7301 Martin Luther King Jr Way S - Seattle, WA

Collected: 04/24/2009 16:15 by ML

Account Number: 11260

Submitted: 04/25/2009 10:00
Reported: 06/19/2009 at 15:10
Discard: 07/20/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MLKM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06054	Benzene	71-43-2	4,100	25	50
06054	Ethylbenzene	100-41-4	1,500	25	50
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	3	5
06054	Toluene	108-88-3	99	3	5
06054	Xylene (Total)	1330-20-7	2,000	3	5
ECY 97-602 NWTPH-Gx	**GC Volatiles**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	16,000	500	10

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	Z091192AA	04/29/2009 12:19	Ginelle L Feister	5
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	Z091192AA	04/29/2009 12:44	Ginelle L Feister	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091192AA	04/29/2009 12:19	Ginelle L Feister	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Z091192AA	04/29/2009 12:44	Ginelle L Feister	50
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09117A20A	04/28/2009 00:46	Fanella S Zamcho	10
01146	GC VOA Water Prep	SW-846 5030B	1	09117A20A	04/28/2009 00:46	Fanella S Zamcho	10

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. WW 5655719

Group No. 1142104
WA

MW-3 Grab Water Sample
Facility# 303189 Job# 385862
7301 Martin Luther King Jr Way S - Seattle, WA

Collected: 04/24/2009 14:40 by ML

Account Number: 11260

Submitted: 04/25/2009 10:00
Reported: 06/19/2009 at 15:10
Discard: 07/20/2009

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

MLKM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
SW-846 8260B	**GC/MS Volatiles**		**ug/l**	**ug/l**	
06054	Benzene	71-43-2	N.D.	0.5	1
06054	Ethylbenzene	100-41-4	N.D.	0.5	1
06054	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
06054	Toluene	108-88-3	N.D.	0.5	1
06054	Xylene (Total)	1330-20-7	N.D.	0.5	1
ECY 97-602 NWTPH-Gx	**GC Volatiles**		**ug/l**	**ug/l**	
08273	NWTPH-Gx water C7-C12	n.a.	N.D.	50	1
ECY 97-602 NWTPH-Dx modified	**GC Extractable TPH w/Si Gel**		**ug/l**	**ug/l**	
02211	DRO C12-C24 w/Si Gel	n.a.	58	32	1
02211	HRO C24-C40 w/Si Gel	n.a.	N.D.	75	1

General Sample Comments

State of Washington Lab Certification No. C259

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
06054	BTEX+MTBE by 8260B	SW-846 8260B	1	Z091192AA	04/29/2009 13:09	Ginelle L Feister	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Z091192AA	04/29/2009 13:09	Ginelle L Feister	1
08273	NWTPH-Gx water C7-C12	ECY 97-602 NWTPH-Gx	1	09126A07A	05/07/2009 02:19	Katrina T Longenecker	1
01146	GC VOA Water Prep	SW-846 5030B	1	09126A07A	05/07/2009 02:19	Katrina T Longenecker	1
02211	NWTPH-Dx water w/Si Gel	ECY 97-602 NWTPH-Dx modified	1	091260016A	05/08/2009 08:43	Diane V Do	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	2	091260016A	05/07/2009 02:00	Roman Kuropatkin	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 06/19/09 at 03:10 PM

Group Number: 1142104

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 Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Z091192AA	Sample number(s): 5655716-5655719							
Benzene	N.D.	0.5	ug/l	99		80-116		
Ethylbenzene	N.D.	0.5	ug/l	98		80-113		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	88		78-117		
Toluene	N.D.	0.5	ug/l	100		80-115		
Xylene (Total)	N.D.	0.5	ug/l	93		81-114		
Batch number: 09117A20A	Sample number(s): 5655716-5655718							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 09126A07A	Sample number(s): 5655719							
NWTPH-Gx water C7-C12	N.D.	50.	ug/l	100	100	75-135	0	30
Batch number: 091260016A	Sample number(s): 5655717,5655719							
DRO C12-C24 w/Si Gel	N.D.	30.	ug/l	75	75	61-106	0	20
HRO C24-C40 w/Si Gel	N.D.	70.	ug/l					

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Z091192AA	Sample number(s): 5655716-5655719 UNSPK: P655557								
Benzene	108	106	80-126	2	30				
Ethylbenzene	107	106	77-125	1	30				
Methyl Tertiary Butyl Ether	94	93	72-126	1	30				
Toluene	110	107	80-125	2	30				
Xylene (Total)	101	99	79-125	1	30				
Batch number: 09126A07A	Sample number(s): 5655719 UNSPK: P658038								
NWTPH-Gx water C7-C12	109		46-140						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX+MTBE by 8260B
Batch number: Z091192AA

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

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1142104
Reported: 06/19/09 at 03:10 PM

Surrogate Quality Control

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5655716	87	87	95	87
5655717	87	87	95	87
5655718	85	86	97	88
5655719	87	88	94	86
Blank	86	87	94	85
LCS	85	88	94	89
MS	86	88	94	89
MSD	86	88	94	90
Limits:	80-116	77-113	80-113	78-113

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 09117A20A

	Trifluorotoluene-F
5655716	93
5655717	95
5655718	121
Blank	94
LCS	114
LCSD	114
Limits:	63-135

Analysis Name: NWTPH-Gx water C7-C12
Batch number: 09126A07A

	Trifluorotoluene-F
5655719	94
Blank	95
LCS	103
LCSD	103
MS	102
Limits:	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 091260016A

	Orthoterphenyl
5655717	111
5655719	92
Blank	108
LCS	120
LCSD	118
Limits:	50-150

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

Lancaster Laboratories
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
TNTC	Too Numerous To Count	**MPN**	Most Probable Number
IU	International Units	**CP Units**	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	**NTU**	nephelometric turbidity units
C	degrees Celsius	**F**	degrees Fahrenheit
Cal	(diet) calories	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	milliliter(s)	**ul**	microliter(s)
m3	cubic meter(s)	**fib >5 um/ml**	fibers greater than 5 microns in length per ml

< less than – The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

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.

U.S. EPA data qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quatitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
J	Estimated value
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike amount not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	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.

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.