☐ Further Action Required
☑ Report Satisfactory

ENSR's CHECKLIST FOR QUALITY REVIEW OF GROUNDWATER MONITORING REPORTS BY GETTLER-RYAN

ENSR | AECOM

Report title: Groundwater Monitoring and Sampling Report_____ Report Date: 12/22/08_____ Date of Review: 12/30/08_____

Reviewed by: Danny Phipps_____ ENSR Project No.: 01231-411_____ Chevron Site No.: 352300_____

Analytical QC Items to Check:	Yes	No	N/A	Comments (initials if different from reviewer listed above):
Are the site activities of Gettler-Ryan personnel (as documented on the Site Checklist and Chain of Custody) consistent with what was requested by ENSR on the Site Information Sheet?	☑	☐	☐	Well MW-2 and MW-5 were not analyzed for lead due to insufficient water
Are the analyses performed by the laboratory consistent with the analyses requested on the Chain of Custody?	☑	☐	☐	Well MW-6 was not analyzed for dissolved lead due to a laboratory error
Were the samples delivered to the laboratory analyzed within the required holding times, and received within required temperature limits?	☑	☐	☐	
Do the data in the analytical tables agree with the laboratory report?	☑	☐	☐	
If there are re-analyses or flagged data in the analytical report, are these properly identified in the tables?	☑	☐	☐	
Are the analyte concentrations consistent with historical data trends?	☑	☐	☐	List if No:
If figures show any laboratory analytical data, do those data agree with the tables?	☐	☐	☑	
Does/do the electronic data file(s) agree with the hard copy laboratory report? Check at least 5% of the data to confirm that these are all reports for the same site and sampling event.	☑	☐	☐	
Groundwater QC Items to Check:				
Are the groundwater depths (DTW) and elevations (GWE) in Table 1 generally consistent with previous data for the site?	☑	☐	☐	
Do the DTW documented on the field data sheet(s) agree with those listed in Table 1?	☑	☐	☐	
Do the GWE in the appropriate figure agree with those listed in Table 1?	☑	☐	☐	
Were the groundwater elevations in Table 1 correctly calculated (relative to the benchmark)?	☑	☐	☐	
If LNAPL is present on groundwater, have the GWE been correctly adjusted to account for the weight of the LNAPL?	☐	☐	☑	

CHECKLIST FOR QUALITY REVIEW OF GROUNDWATER MONITORING REPORTS SUBMITTED BY GETTLER-RYAN FOR CHEVRON EMC

ENSR | AECOM

Report Text QC Items to Check:	Yes	No	N/A	
Does site information in the subject line of the transmittal and cover letter match site information on the table(s), figure(s), and laboratory analytical report submitted with the cover letter?	☑	☐	☐	
At a minimum, does the report contain a transmittal letter, cover letter, Chevron-site checklist, Figure 1 (Groundwater Elevation Map), tables with all analytical data, groundwater sampling SOP, field data sheets, COC, and laboratory report?	☑	☐	☐	List missing:
If any additional tables, figures, or documents were included in the report, other than those discussed above, are they properly identified?	☐	☐	☑	List if No:
Is all of the factual information (i.e., event date, discussion of separate phase hydrocarbons, discussion of the data, table and figure numbers, and list of attachments) in the cover letter correct?	☑	☐	☐	
Check Field Data Sheet for anomalous field data. Are all anomalies discussed in text?	☑	☐	☐	List if No:
Is the report readable, with no obvious errors of grammar/spelling/organization?	☑	☐	☐	
Was the report cover letter signed and stamped by a Gettler-Ryan registered geologist or professional engineer?	☑	☐	☐	

Additional comments:

Uploading and Distribution Status (initials/date after each entry if different from reviewer and review date, along with any additional data required)

Report location in ENSR project files (file path name): J:\Projects\Chevron - Unocal\01231-411 Tekoa, WA\2008\GWM\Q4

Report uploaded to STRATA activity events file (date of upload): 12/30/08

EIM data status (likely responses: not able to access/reviewed/approved): Not currently in Locus

Report distribution list (name and affiliation):

GETTLER-RYAN INC.

TRANSMITTAL

December 23, 2008
G-R #385853

TO: Ms. Ashley Lunde
ENSR
9521 Willows Road NE
Redmond, Washington 98052-3422

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

RE: Chevron Facility #352300
(Former Standard Oil Bulk Plant #1001152)
State Route 274
Tekoa, Washington

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	December 22, 2008	Groundwater Monitoring and Sampling Report **Event of November 10, 2008**

COMMENTS:

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

Mr. Brett Hunter, Chevron EMC, 6111 Bollinger Canyon Rd., Room 3628, San Ramon, CA 94583

☐ Current Site Check List included.

Enclosure
trans/352300-BH

GETTLER-RYAN INC.

CHEVRON - SITE CHECK LIST

Facility#:	**Chevron #352300**	Date: 11-10-08
Address:	**State Route 274**	
City/St.:	**Tekoa,WA**	
Status of Site:	VACANT LOT EAST OF TEKOA	

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	OK	OK	
MW-2	↓	↓	↓	↓	
MW-3	↓	↓	↓	↓	
MW-4	↓	↓	↓	↓	
MW-5	↓	↓	↓	↓	
MW-6	↓	↓	↓	↓	
MW-7	↓	↓	↓	↓	

Additional Comments/Observations:

GETTLER-RYAN INC.

December 22, 2008
Job #385853

Mr. Brett Hunter
Chevron Environmental Management Company
6111 Bollinger Canyon Road, Room 3628
San Ramon, CA 94583

RE: Event of November 10, 2008
Groundwater Monitoring & Sampling Report
Chevron Facility #352300
(Former Standard Oil Bulk Plant #1001152)
State Route 274
Tekoa, 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 well. 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. Purge water was treated by filtering the water 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.

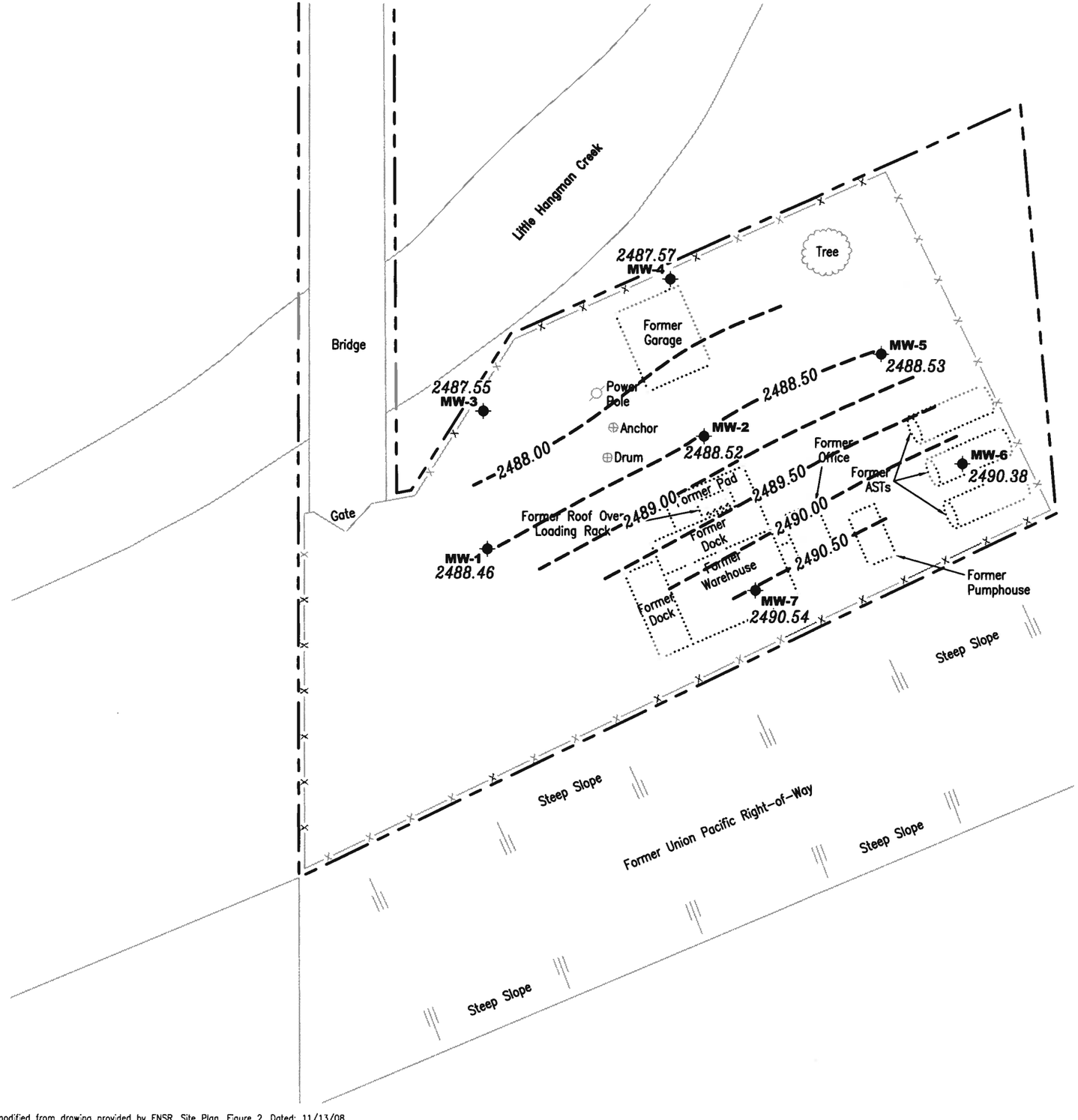
Sincerely,

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
Table 2: Groundwater Analytical Results - PAHs
Table 3: Groundwater Analytical Results - VOCs
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



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 0.02 to 0.04 Ft./Ft.

N

0 40

Scale in Feet

Source: Figure modified from drawing provided by ENSR, Site Plan, Figure 2, Dated: 11/13/08.

FIGURE 1

POTENTIOMETRIC MAP
Chevron Facility #352300
(Former Standard Oil Bulk Plant #1001152)
State Route 274
Tekoa, Washington

DATE November 10, 2008 REVISED DATE

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

PROJECT NUMBER 385853 REVIEWED BY

FILE NAME: P:\Enviro\Chevron\352300\008-352300.dwg | Layout Tab: Plot4

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #352300

(Former Standard Oil Bulk Plant #1001152)

State Route 274

Tekoa, Washington

WELL ID/ DATE		TOC* (ft.)	DTW (ft.)	GWE (ft.)	TPH-D (µg/L)	TPH-HRO (µg/L)	TPH-G (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	D. LEAD (µg/L)	T. LEAD (µg/L)
MW-1														
11/10/08	PER	2494.59	6.13	2488.46	170	<73	140[1]	0.6[1]	<0.5	<0.5	<1.0	<0.5	<0.050	2.8
MW-2														
11/10/08	PER	2495.26	6.74	2488.52	2,500	420	2,400	0.9[1]	<0.5	2[1]	4.8[1]	<0.5	--[2]	--[2]
MW-3														
11/10/08	PER	2493.95	6.40	2487.55	400	100[1]	170[1]	<0.5	<0.7	<0.8	<1.6	<0.5	<0.050	54.2
MW-4														
11/10/08	PER	2494.10	6.53	2487.57	360	77[1]	230[1]	1[1]	<0.5	<0.5	<1.0	<0.5	<0.050	57.7
MW-5														
11/10/08	PER	2495.16	6.63	2488.53	1,700	1,600	240[1]	0.6[1]	<0.5	<0.5	<1.0	<0.5	--[2]	--[2]
MW-6														
11/10/08	PER	2496.04	5.66	2490.38	570	140[1]	<50	<0.5	<0.5	<0.5	<1.0	<0.5	--[2]	649
MW-7														
11/10/08	PER	2495.66	5.12	2490.54	2,500	400	4,400	2[1]	2[1]	25	49	<0.5	0.063[1]	95.2
TRIP BLANK														
QA														
11/10/08		--	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--

Constituent:	TPH-D	TPH-O	TPH-G	B	T	E	X	MTBE	D. LEAD	T. LEAD
Standard Laboratory Reporting Limits:	50	100	50	0.5	0.5	0.5	0.5	0.5	0.050	0.050
MTCA Method A Cleanup Levels:	500	500	800/1,000	5	1,000	700	1,000	20	--	15
Current Method:	NWTPH-Dx Extended		NWTPH-GX	EPA Method 8260					EPA 6020	EPA 6020

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #352300
(Former Standard Oil Bulk Plant #1001152)
State Route 274
Tekoa, Washington

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean Sea Level
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-HRO = Total Petroleum Hydrocarbons as Oil
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
D. LEAD = Dissolved Lead
T. LEAD = Total Lead
(µg/L) = Micrograms per liter
-- = Not Measured/Not Analyzed
PER = Peristaltic Pump
QA = Quality Assurance/Trip Blank
MTCA = Model Toxics Control Act Cleanup Regulations
[WAC 173-340-720(2)(a)(I), as amended 02/01].

ANALYTICAL METHODS:

TPH-D and TPH-HRO w/silica gel by ECY 97-602 NWTPH-Dx modified
TPH-G by ECY 97-602 NWTPH-Gx modified
BTEX and MTBE by EPA Method 8260.
Total Lead and Dissolved Lead by SW-846-6020

* TOC elevations were provided on August 14, 2008 by Statewide Land Surveying Inc. Vertical Datum is NAVD88.
1 Laboratory report indicates estimated value.
2 Not sampled due to insufficient water.

Table 2

Groundwater Analytical Results - PAHs

Chevron Service Station #352300

(Former Standard Oil Bulk Plant #1001152)

State Route 274

Tekoa, Washington

WELL ID / DATE	NAPHTHALENE (µg/L)	ACENAPHTHYLENE (µg/L)	ACENAPHTHENE (µg/L)	FLUORENE (µg/L)	PHENANTHRENE (µg/L)	ANTHRACENE (µg/L)	FLUORANTHENE (µg/L)	PYRENE (µg/L)	BENZO (a) ANTHRACENE (µg/L)	CHRYSENE (µg/L)	BENZO (b) FLUORANTHENE (µg/L)	BENZO (k) FLUORANTHENE (µg/L)	BENZO (a) PYRENE (µg/L)	INDENO (1,2,3-cd) PYRENE (µg/L)	DIBENZ (a,h) ANTHRACENE (µg/L)	BENZO (g,h,i) PERYLENE (µg/L)
MW-1 11/10/08[2]	<0.12[3]	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-2 11/10/08[2]	12	<0.011	0.041[1]	0.058	0.018[1]	0.049[1]	0.020[1]	0.016[1]	<0.011	0.013[1]	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-3 11/10/08[2]	<0.17[3]	<0.011	0.013[1]	<0.011	0.014[1]	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-4 11/10/08[2]	0.089	<0.011	<0.011	<0.011	0.017[1]	0.016[1]	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
MW-5 11/10/08[2]	0.29	0.31	0.044[1]	0.064	0.98	0.29	1.5	1.2	0.63	0.92	2.0	0.62	1.2	0.67	0.20	0.64
MW-6 11/10/08[2]	0.12	0.055	<0.011	0.020[1]	0.15	0.029[1]	0.21	0.20	0.044[1]	0.079	0.13	0.057	0.12	0.076	0.020[1]	0.090

Table 2

Groundwater Analytical Results - PAHs

Chevron Service Station #352300

(Former Standard Oil Bulk Plant #1001152)

State Route 274

Tekoa, Washington

WELL ID / DATE	NAPHTHALENE (µg/L)	ACENAPHTHYLENE (µg/L)	ACENAPHTHENE (µg/L)	FLUORENE (µg/L)	PHENANTHRENE (µg/L)	ANTHRACENE (µg/L)	FLUORANTHENE (µg/L)	PYRENE (µg/L)	BENZO (a) ANTHRACENE (µg/L)	CHRYSENE (µg/L)	BENZO (b) FLUORANTHENE (µg/L)	BENZO (k) FLUORANTHENE (µg/L)	BENZO (a) PYRENE (µg/L)	INDENO (1,2,3-cd) PYRENE (µg/L)	DIBENZ (a,h) ANTHRACENE (µg/L)	BENZO (g,h,i) PERYLENE (µg/L)
MW-7																
11/10/08	6.7	<0.040[4]	0.18	0.33	0.057	0.041[1]	0.010[1]	0.014[1]	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

Table 2

Groundwater Analytical Results - PAHs

Chevron Service Station #352300

(Former Standard Oil Bulk Plant #1001152)

State Route 274

Tekoa, Washington

EXPLANATIONS

(µg/L) = Micrograms per liter

PAHs = Polynuclear Aromatic Hydrocarbons

ANALYTICAL METHODS:

PAH by EPA Method 8270C

[1] Laboratory report indicates estimated value.

[2] Laboratory report indicates due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.

[3] Laboratory report indicates due to the presence of an interferent near the retention time of naphthalene, the reporting limit was raised. This was due to the fact that the interferent had a significant abundance of ions at or near the mass of naphthalene.

[4] Laboratory report indicates due to the presence of an interferent near the retention time of acenaphthylene, the reporting limit was raised. This was due to the fact that the interferent had a significant abundance of ions at or near the mass of acenaphthylene.

Table 3

Groundwater Monitoring Data and Analytical Results - VOCs

Chevron Service Station #352300

(Former Standard Oil Bulk Plant #1001152)

State Route 274

Tekoa, Washington

WELL ID/ DATE	1,1-Dichloroethene (µg/L)	trans-1,2-Dichloroethene (µg/L)	cis-1,2-Dichloroethene (µg/L)	Chloroform (µg/L)	1,1,1-Trichloroethane (µg/L)	Trichloroethene (µg/L)	Bromodichloromethane (µg/L)	Tetrachloroethene (µg/L)	Isopropylbenzene (µg/L)	n-Propylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	tert-Butylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	sec-Butylbenzene (µg/L)	p-Isopropyltoluene (µg/L)	n-Butylbenzene (µg/L)	Naphthalene (µg/L)
MW-1 11/10/08[1]	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-2 11/10/08	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	17	22	39	<1	130	7	10	2[2]	16
MW-3 11/10/08[3]	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	<1	<1	<1	<1	<1	1[2]	<1	<1	<1
MW-4 11/10/08	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-5 11/10/08	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6 11/10/08	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-7 11/10/08[4]	<0.8	<0.8	<0.8	<0.8	<0.8	<1	<1	<0.8	29	38	59	1[2]	150	11	13	5	12

Table 3

Groundwater Monitoring Data and Analytical Results - VOCs

Chevron Service Station #352300
(Former Standard Oil Bulk Plant #1001152)
State Route 274
Tekoa, Washington

EXPLANATIONS

(µg/L) = Micrograms per liter
VOC = Volatile Organic Compounds

♦ **All other VOCs by EPA Method 8260B were less than the reporting limit unless noted.**

[1] Laboratory report indicates Carbon Disulfide was detected at 1 µg/L (estimated value).
[2] Laboratory report indicates estimated value.
[3] Laboratory report indicates Carbon Disulfide was detected at 2 µg/L (estimated value).
[4] Laboratory report indicates 1,2 - Dichloroethane was detected at 4 µg/L and Acetone was detected at 23 µg/L.

ANALYTICAL METHODS:

VOCs by EPA Method 8260 A

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 for 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.

MicroPurge® Sampling Method

This procedure is designed to assist the user in taking representative groundwater samples from the monitoring wells at the (selected client facility) located in (city of town name). The groundwater 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 manufactured by QED Environmental Systems, Inc. Each bladder pump is positioned with its inlet located within the screened interval of the well. The down well equipment, includes, bladder pumps, Teflon-lined PE tubing and well seals.

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 Groundwater Monitoring Program Gauging and Sampling Sheet".

After pump installation, and confirmation that the SWL has returned to its original level (as determined prior to pump installation), the bladder 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 flow rate, without an in-line flow cell connected, has been determined and documented, connect the in-line flow cell system to be used to the well discharge and determine the control settings required to achieve the well's determined optimum flow rate with the in-line flow cell connected. (Due to the system's back-pressure, the flow 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 flow 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 flow 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), turbidity, oxygen reduction potential (ORP), and dissolved oxygen (DO) using a "QED" Model MP-20 in-line flow cell. All water chemistry field measurements will be documented on the gauging 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 temperature, pH, and conductance. Three consecutive measurements indicating stability should be within:

Temperature	± 3% of reading (minimum of ± 0.2 C)
pH	± 0.2 units, minimum
Conductance	± 03-05% of reading

Additional parameters that may be required.

Dissolved Oxygen	± 0.2 mg/L
Redox (ORP)	± 20 mv

When the water quality parameters have stabilized, and there has been no change in the stabilized SWL (i.e. 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 flow 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
- Field measurement documentation forms
- 300-500 milliliter graduated cylinder or measuring cup
- 5 gallon bucket(s) for containerizing purge water
- Wristwatch with second hand or stopwatch
- Sufficient cleaning and decontamination supplies if portable water level probe is utilized

Procedure

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.
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.

Other Purging and Sampling Methods

If purging is to occur, using pre-cleaned pumps (stack, suction, Grundfos) or disposable bailers, each well is purged a minimum of three well casing volumes of water. The field measurements, temperature, pH and electrical conductivity are taken a minimum of three times during the purging. Purging continues until these parameters stabilize.

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.

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#: Chevron #352300 Job Number: 385853
Site Address: State Route 274 Event Date: 11-10-08 (inclusive)
City: Tekoa,WA Sampler: ML

Well ID MW-1 Date Monitored: 11-10-08
Well Diameter 2 in.
Total Depth 9.14 ft.
Depth to Water 6.13 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.

3.01 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): 1000 Weather Conditions: Cloudy
Sample Time/Date: 1030 / 11-10-08 Water Color: Clear Odor: Y / (N)
Approx. Flow Rate: 150 ml/min. Sediment Description: None
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.06

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
1010	1.5	6.74	431	10.5			7.35
1013	2	6.76	435	10.5			7.85
1016	2.4	6.71	437	10.6			8.06

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**
Site Address: **State Route 274** Event Date: 11-10-08 (inclusive)
City: **Tekoa,WA** Sampler: ML

Well ID: MW-2 Date Monitored: 11-10-08
Well Diameter: 2 in.
Total Depth: 8.46 ft.
Depth to Water: 6.74 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

1.72 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): 1140 Weather Conditions: Cloudy
Sample Time/Date: 1545 / 11-10-08 Water Color: Clear Odor: (Y) N
Approx. Flow Rate: 150 ml/ gpm. Sediment Description:
Did well de-water? Yes If yes, Time: 1152 Volume: 1.8 L DTW @ Sampling: 6.91

Time (2400 hr.)	Volume L	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1150	1.5	6.89	602	9.2			8.01

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	1 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	1 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS: Only able to collect 6 VOA's, 1 1L amber for NWTPHD and 1 1L amber for PAH's due to dewatering. Well dewatered, and I returned before leaving site to sample.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #352300 Job Number: 385853
Site Address: State Route 274 Event Date: 11-10-08 (inclusive)
City: Tekoa,WA Sampler: ML

Well ID MW-3 Date Monitored: 11-10-08
Well Diameter 2 in.
Total Depth 9.67 ft.
Depth to Water 6.40 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.

3.27 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): 1050 Weather Conditions: Cloudy
Sample Time/Date: 1120 11-10-08 Water Color: Clear Odor: Y / N
Approx. Flow Rate: 150 ml/gpm. Sediment Description: Light
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 7.68

Time (2400 hr.)	Volume (L)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)	Gauge DTW as parameters are recorded
1100	1.5	7.06	545	8.8			7.21
1103	2	7.02	547	8.9			7.59
1106	2.4	7.02	547	9.0			7.68

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #352300 Job Number: 385853
Site Address: State Route 274 Event Date: 11-10-08 (inclusive)
City: Tekoa,WA Sampler: MC

Well ID MW-4 Date Monitored: 11-10-08
Well Diameter 2 in.
Total Depth 10.32 ft.
Depth to Water 6.53 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.

3.79 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): 1300 Weather Conditions: Cloudy
Sample Time/Date: 1330 / 11-10-08 Water Color: Clear Odor: (Y) / N
Approx. Flow Rate: 150 ml/ gpm. Sediment Description:
Did well de-water? No If yes, Time: ____ Volume: ____ gal. DTW @ Sampling: 8.56

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
1310	1.5	7.25	805	9.1			7.64
1313	2	7.21	804	9.1			8.03
1316	2.4	7.22	808	9.1			8.56

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #352300 Job Number: 385853
Site Address: State Route 274 Event Date: 11-10-08 (inclusive)
City: Tekoa,WA Sampler: MZ

Well ID MW-5 Date Monitored: 11-10-08
Well Diameter 2 in.
Total Depth 8.81 ft.
Depth to Water 6.63 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

2.18 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): 1215 Weather Conditions: Cloudy
Sample Time/Date: 1605 / 11-10-08 Water Color: Clear Odor: Y / N
Approx. Flow Rate: 150 ml/ gpm. Sediment Description: None
Did well de-water? Yes If yes, Time: 1230 Volume: 2.3 L DTW @ Sampling: 6.89

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
1225	1.5	6.49	469	9.0			8.07
1228	2	6.52	471	9.0			8.42

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	1 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	— x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	— x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS: Well dewatered, upon returning to sample at end of day I was only able to collect 6 VOAs, 2 1L ambers for TPH-D, and 1 1L Amber for PAH's.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**

Site Address: **State Route 274** Event Date: 11-10-08 (inclusive)

City: **Tekoa,WA** Sampler: ML

Well ID **MW-6** Date Monitored: 11-10-08

Well Diameter 2 in.

Total Depth 9.79 ft.

Depth to Water 5.66 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.

4.13 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): 1350 Weather Conditions: Cloudy

Sample Time/Date: 1420 / 11-10-08 Water Color: Cloudy Odor: Y / N

Approx. Flow Rate: 150 ml/ gpm. Sediment Description: Heavy

Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 7.56

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
1400	1.5	6.76	602	10.2			6.71
1403	2	6.74	612	10.2			7.20
1406	2.4	6.74	611	10.3			7.56

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #352300** Job Number: **385853**

Site Address: **State Route 274** Event Date: 11-10-08 (inclusive)

City: **Tekoa,WA** Sampler: ML

Well ID **MW-7** Date Monitored: 11-10-08

Well Diameter 2 in.

Total Depth 10.18 ft.

Depth to Water 5.12 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

5.06 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): 1450 Weather Conditions: Cloudy

Sample Time/Date: 1520 / 11-10-08 Water Color: Cloudy Odor: Y / N

Approx. Flow Rate: 150 ml/ppm. Sediment Description: medium

Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 7.14

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
1500	1.5	6.69	596	10.4			6.20
1503	2	6.74	596	10.5			6.79
1506	2.4	6.72	598	10.5			7.14

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	LANCASTER	NWTPH-Gx/FULL LIST(8260)
	2 x 1 liter ambers	YES	HCL	LANCASTER	NWTPH-Dx w/sgc
	2 x 1 liter ambers	YES	Na2S2O3	LANCASTER	PAH's (8270)
	1 x 500ml poly	YES	HNO3	LANCASTER	TOTAL LEAD (ICP/MS 6020)
	1 x 500ml poly	YES	NP	LANCASTER	DISSOLVED LEAD (ICP/MS 6020)

COMMENTS:

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

Chevron Northwest Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. #: 12181 Sample #: 5505785-97 SCR#:

Group# 1119637

Facility #: SS#352300-OML G-R#385853
Site Address: State Route 274, TEKOA, WA
Chevron PM: BH Lead Consultant: ENSRAL
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	Oil	Air	Total Number of Containers	Analyses Requested / Preservation Codes: BTEX + 8021 ☐ 8260 ☐ Naphth ☐	8260 full list	Oxygenates	TPH G	TPH D ☐ Extended Req. ☐ Silica Gel Cleanup	Lead Total ☐ Diss.	VPH/EPH	NWTPH-HCID ☐ quantification	PAHs (8270 SIM)	TPH (8015) (GRO, DRO, ORO)
QA	11-10-08		X			X			2	X			X						
MW-1		1030	X			X			12		X		X	X	X			X	X
MW-2		1545	X			X			8		X		X	X				X	
MW-3		1120	X			X			12		X		X	X	X			X	X
MW-4		1330	X			X			12		X		X	X	X			X	X
MW-5		1605	X			X			9		X		X	X				X	
MW-6		1420	X			X			12		X		X	X	X			X	X
MW-7	↓	1520	X			X			12		X		X	X	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 ____ oxys on highest hit
☐ Run ____ oxys on all hits

Comments / Remarks:
MW-6 not run for dissolved Pb due to preservation. Jump 11/14/08
Lab to filter dissolved lead samples.
Collected only 1 L Amber Each for TPH-D and PAHs for MW-7 due to leaker
Collected only (1) 1L Amber for PAHs for MW-5 due to leaker

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

		Date	Time		Date	Time
Relinquished by:		11/12/08	15:00	Received by:		
Relinquished by:				Received by:		
Relinquished by:				Received by:		
Relinquished by Commercial Carrier: UPS FedEx Other				Received by:	11/12/08	0900
Temperature Upon Receipt 8.7-0 C°				Custody Seals Intact? Yes No		

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 1119637. Samples arrived at the laboratory on Wednesday, November 12, 2008. The PO# for this group is 0015034915 and the release number is HUNTER.

Client Description	Lancaster Labs Number
QA Water Sample	5525785
MW-1 Grab Water Sample	5525786
MW-1 Filtered Grab Water Sample	5525787
MW-2 Grab Water Sample	5525788
MW-3 Grab Water Sample	5525789
MW-3 Filtered Grab Water Sample	5525790
MW-4 Grab Water Sample	5525791
MW-4 Filtered Grab Water Sample	5525792
MW-5 Grab Water Sample	5525793
MW-6 Grab Water Sample	5525794
MW-7 Grab Water Sample	5525796
MW-7 Filtered Grab Water Sample	5525797

ELECTRONIC COPY TO	Gettler Ryan	Attn: Cheryl Hansen
ELECTRONIC COPY TO	AECOM	Attn: Ashley Lunde

Lancaster Laboratories

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Analysis Report

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

Respectfully Submitted,

Robert Strocko Jr.
Manager

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525785 WW Group No. 1119637

QA Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
08273	TPH by NWTPH-Gx waters						
01645	TPH by NWTPH-Gx waters	n.a.	N.D.	50	250	ug/l	1
06053	BTEX by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	1	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	1	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	1	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.5	1	ug/l	1

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#	Analysis Date and Time	Analyst	Dilution Factor
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 13:43	Katrina T Longenecker	1
06053	BTEX by 8260B	SW-846 8260B	1	11/19/2008 13:30	Ginelle L Feister	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 13:43	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 13:30	Ginelle L Feister	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525786 WW Group No. 1119637

MW-1 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 10:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM1

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	2.8		0.050	1.0	ug/l	1
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	170		31	100	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	N.D.		73	260	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	140	J	50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	N.D.		0.12	0.12	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.		0.011	0.054	ug/l	1
08366	Acenaphthene	83-32-9	N.D.		0.011	0.054	ug/l	1
08368	Fluorene	86-73-7	N.D.		0.011	0.054	ug/l	1
08369	Phenanthrene	85-01-8	N.D.		0.011	0.054	ug/l	1
08370	Anthracene	120-12-7	N.D.		0.011	0.054	ug/l	1
08372	Fluoranthene	206-44-0	N.D.		0.011	0.054	ug/l	1
08373	Pyrene	129-00-0	N.D.		0.011	0.054	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.054	ug/l	1
08375	Chrysene	218-01-9	N.D.		0.011	0.054	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.054	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.054	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.054	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.054	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.054	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.054	ug/l	1

Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.

Due to the presence of an interferent near the retention time of naphthalene, the reporting limit was raised. This was due to the fact that the interferent had a significant abundance of ions at or near the mass of naphthalene.

05382 EPA SW846/8260 (water)

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525786 WW Group No. 1119637

MW-1 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 10:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM1

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05384	Dichlorodifluoromethane	75-71-8	N.D.		2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1	5	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1	5	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2	5	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.		1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.		1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.		1	5	ug/l	1
05401	Benzene	71-43-2	0.6	J	0.5	4	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		0.5	4	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.		1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.		1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.		1	5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.5	4	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.		0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.		1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.		1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.		0.5	4	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.5	4	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.		0.5	4	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.5	4	ug/l	1
05418	Styrene	100-42-5	N.D.		1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.		1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.		1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.		1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525786 WW Group No. 1119637

MW-1 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 10:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM1

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05424	n-Propylbenzene	103-65-1	N.D.		1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.		1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	5	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.		1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.		1	5	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	5	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.		1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.		1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.		1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.		1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.		1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.		1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.		2	5	ug/l	1
05439	Naphthalene	91-20-3	N.D.		1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	5	ug/l	1
08202	EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	4	ug/l	1
06302	Acetone	67-64-1	N.D.		6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	1	J	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.		3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.		3	10	ug/l	1

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

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525786 WW Group No. 1119637

MW-1 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 10:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM1

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:12	Choon Y Tian	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/21/2008 17:04	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 16:36	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 11:21	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 02:05	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 02:05	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 16:36	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 02:05	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525787 WW Group No. 1119637

MW-1 Filtered Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 10:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	N.D.	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:15	Choon Y Tian	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525788 WW Group No. 1119637

MW-2 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:45 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM2

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	2,500		29	97	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	420		68	240	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	2,400		50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	12		0.11	0.53	ug/l	10
08365	Acenaphthylene	208-96-8	N.D.		0.011	0.053	ug/l	1
08366	Acenaphthene	83-32-9	0.041	J	0.011	0.053	ug/l	1
08368	Fluorene	86-73-7	0.058		0.011	0.053	ug/l	1
08369	Phenanthrene	85-01-8	0.018	J	0.011	0.053	ug/l	1
08370	Anthracene	120-12-7	0.049	J	0.011	0.053	ug/l	1
08372	Fluoranthene	206-44-0	0.020	J	0.011	0.053	ug/l	1
08373	Pyrene	129-00-0	0.016	J	0.011	0.053	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.053	ug/l	1
08375	Chrysene	218-01-9	0.013	J	0.011	0.053	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.053	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.053	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.053	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.053	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.053	ug/l	1
	Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.							
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1	5	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1	5	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525788 WW Group No. 1119637

MW-2 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:45 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM2

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.		1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.		1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.		1	5	ug/l	1
05401	Benzene	71-43-2	0.9	J	0.5	4	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		0.5	4	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.		1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.		1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.		1	5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.5	4	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.		0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.		1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.		1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.		0.5	4	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	5	ug/l	1
05415	Ethylbenzene	100-41-4	2	J	0.5	4	ug/l	1
05416	m+p-Xylene	1330-20-7	4		0.5	4	ug/l	1
05417	o-Xylene	95-47-6	0.8	J	0.5	4	ug/l	1
05418	Styrene	100-42-5	N.D.		1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.		1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	17		1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.		1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.		1	5	ug/l	1
05424	n-Propylbenzene	103-65-1	22		1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.		1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	39		1	5	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.		1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.		1	5	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	130		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525788 WW Group No. 1119637

MW-2 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:45 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05430	sec-Butylbenzene	135-98-8	7	1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	10	1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	2 J	1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2	5	ug/l	1
05439	Naphthalene	91-20-3	16	1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	ug/l	1
06302	Acetone	67-64-1	N.D.	6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3	10	ug/l	1

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#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/21/2008 17:40	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 16:58	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 11:52	Timothy J Trees	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525788 WW Group No. 1119637

MW-2 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:45 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM2

08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/18/2008 08:27	Timothy J Trees	10
05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 02:28	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 02:28	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 16:58	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 02:28	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525789 WW Group No. 1119637

MW-3 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 11:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM3

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	54.2		0.050	1.0	ug/l	1
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	400		33	110	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	100	J	78	280	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	170	J	50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	N.D.		0.17	0.17	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.		0.011	0.053	ug/l	1
08366	Acenaphthene	83-32-9	0.013	J	0.011	0.053	ug/l	1
08368	Fluorene	86-73-7	N.D.		0.011	0.053	ug/l	1
08369	Phenanthrene	85-01-8	0.014	J	0.011	0.053	ug/l	1
08370	Anthracene	120-12-7	N.D.		0.011	0.053	ug/l	1
08372	Fluoranthene	206-44-0	N.D.		0.011	0.053	ug/l	1
08373	Pyrene	129-00-0	N.D.		0.011	0.053	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.053	ug/l	1
08375	Chrysene	218-01-9	N.D.		0.011	0.053	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.053	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.053	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.053	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.053	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.053	ug/l	1

Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.

Due to the presence of an interferent near the retention time of naphthalene, the reporting limit was raised. This was due to the fact that the interferent had a significant abundance of ions at or near the mass of naphthalene.

05382 EPA SW846/8260 (water)

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525789 WW Group No. 1119637

MW-3 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 11:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05384	Dichlorodifluoromethane	75-71-8	N.D.	2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.	1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.	1	5	ug/l	1
05387	Bromomethane	74-83-9	N.D.	1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.	1	5	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.	2	5	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1	5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	1	5	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1	5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	1	5	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.8	5	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.8	5	ug/l	1
05418	Styrene	100-42-5	N.D.	1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.	1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525789 WW Group No. 1119637

MW-3 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 11:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM3

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05424	n-Propylbenzene	103-65-1	N.D.		1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.		1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	5	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.		1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.		1	5	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.		1	5	ug/l	1
05430	sec-Butylbenzene	135-98-8	1	J	1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.		1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.		1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.		1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.		1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.		1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.		2	5	ug/l	1
05439	Naphthalene	91-20-3	N.D.		1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	5	ug/l	1
08202	EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	5	ug/l	1
06302	Acetone	67-64-1	N.D.		6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	2	J	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.		3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.		3	10	ug/l	1

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

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525789 WW Group No. 1119637

MW-3 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 11:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM3

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:18	Choon Y Tian	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/21/2008 18:01	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 17:20	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 12:23	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 02:51	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 02:51	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 17:20	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 02:51	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525790 WW Group No. 1119637

MW-3 Filtered Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 11:20 by ML

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Account Number: 12181

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	N.D.	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:21	Choon Y Tian	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525791 WW Group No. 1119637

MW-4 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 13:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM4

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	57.7		0.050	1.0	ug/l	1
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	360		30	99	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	77	J	69	250	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	230	J	50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	0.089		0.011	0.053	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.		0.011	0.053	ug/l	1
08366	Acenaphthene	83-32-9	N.D.		0.011	0.053	ug/l	1
08368	Fluorene	86-73-7	N.D.		0.011	0.053	ug/l	1
08369	Phenanthrene	85-01-8	0.017	J	0.011	0.053	ug/l	1
08370	Anthracene	120-12-7	0.016	J	0.011	0.053	ug/l	1
08372	Fluoranthene	206-44-0	N.D.		0.011	0.053	ug/l	1
08373	Pyrene	129-00-0	N.D.		0.011	0.053	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.011	0.053	ug/l	1
08375	Chrysene	218-01-9	N.D.		0.011	0.053	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.011	0.053	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.011	0.053	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.011	0.053	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.011	0.053	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.011	0.053	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.011	0.053	ug/l	1
	Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.							
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1	5	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525791 WW Group No. 1119637

MW-4 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 13:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM4

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05389	Trichlorofluoromethane	75-69-4	N.D.		2	5	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.		1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.		1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.		1	5	ug/l	1
05401	Benzene	71-43-2	1	J	0.5	4	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.		0.5	4	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.		1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.		1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.		1	5	ug/l	1
05407	Toluene	108-88-3	N.D.		0.5	4	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.		0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.		1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.		1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.		0.5	4	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.		0.5	4	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.		0.5	4	ug/l	1
05417	o-Xylene	95-47-6	N.D.		0.5	4	ug/l	1
05418	Styrene	100-42-5	N.D.		1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.		1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.		1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.		1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.		1	5	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.		1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.		1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.		1	5	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.		1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525791 WW Group No. 1119637

MW-4 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 13:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	5	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2	5	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	ug/l	1
06302	Acetone	67-64-1	N.D.	6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3	10	ug/l	1

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:23	Choon Y Tian	1
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/21/2008 18:22	Heather E Williams	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525791 WW Group No. 1119637

MW-4 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 13:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM4

08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 17:41	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 12:54	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 10:31	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 10:31	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 17:41	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 10:31	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Lancaster Laboratories Sample No. 5525792 WW Group No. 1119637

MW-4 Filtered Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 13:30 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	N.D.	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:26	Choon Y Tian	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525793 WW Group No. 1119637

MW-5 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 16:05 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM5

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	1,700		31	100	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	1,600		73	260	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	240	J	50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	0.29		0.012	0.059	ug/l	1
08365	Acenaphthylene	208-96-8	0.31		0.012	0.059	ug/l	1
08366	Acenaphthene	83-32-9	0.044	J	0.012	0.059	ug/l	1
08368	Fluorene	86-73-7	0.064		0.012	0.059	ug/l	1
08369	Phenanthrene	85-01-8	0.98		0.012	0.059	ug/l	1
08370	Anthracene	120-12-7	0.29		0.012	0.059	ug/l	1
08372	Fluoranthene	206-44-0	1.5		0.012	0.059	ug/l	1
08373	Pyrene	129-00-0	1.2		0.012	0.059	ug/l	1
08374	Benzo(a)anthracene	56-55-3	0.63		0.012	0.059	ug/l	1
08375	Chrysene	218-01-9	0.92		0.012	0.059	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	2.0		0.012	0.059	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	0.62		0.012	0.059	ug/l	1
08378	Benzo(a)pyrene	50-32-8	1.2		0.012	0.059	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	0.67		0.012	0.059	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	0.20		0.012	0.059	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	0.64		0.012	0.059	ug/l	1
	Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.							
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1	5	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1	5	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525793 WW Group No. 1119637

MW-5 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 16:05 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1	5	ug/l	1
05401	Benzene	71-43-2	0.6 J	0.5	4	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	4	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1	5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	4	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	4	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	4	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	4	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	4	ug/l	1
05418	Styrene	100-42-5	N.D.	1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.	1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1	5	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	5	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	1	5	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525793 WW Group No. 1119637

MW-5 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 16:05 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05430	sec-Butylbenzene	135-98-8	N.D.	1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2	5	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	ug/l	1
06302	Acetone	67-64-1	N.D.	6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3	10	ug/l	1

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#	Analysis Date and Time	Analyst	Dilution Factor
02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/22/2008 16:03	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 18:03	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 13:26	Timothy J Trees	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525793 WW Group No. 1119637

MW-5 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 16:05 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM5

05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 10:54	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 10:54	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 18:03	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 10:54	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525794 WW Group No. 1119637

MW-6 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 14:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM6

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	649		0.50	10.0	ug/l	10
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	570		36	120	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	140	J	84	300	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	N.D.		50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	0.12		0.011	0.053	ug/l	1
08365	Acenaphthylene	208-96-8	0.055		0.011	0.053	ug/l	1
08366	Acenaphthene	83-32-9	N.D.		0.011	0.053	ug/l	1
08368	Fluorene	86-73-7	0.020	J	0.011	0.053	ug/l	1
08369	Phenanthrene	85-01-8	0.15		0.011	0.053	ug/l	1
08370	Anthracene	120-12-7	0.029	J	0.011	0.053	ug/l	1
08372	Fluoranthene	206-44-0	0.21		0.011	0.053	ug/l	1
08373	Pyrene	129-00-0	0.20		0.011	0.053	ug/l	1
08374	Benzo(a)anthracene	56-55-3	0.044	J	0.011	0.053	ug/l	1
08375	Chrysene	218-01-9	0.079		0.011	0.053	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	0.13		0.011	0.053	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	0.057		0.011	0.053	ug/l	1
08378	Benzo(a)pyrene	50-32-8	0.12		0.011	0.053	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	0.076		0.011	0.053	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	0.020	J	0.011	0.053	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	0.090		0.011	0.053	ug/l	1
	Due to insufficient sample, the reporting limits for the GC/MS semivolatile compounds were raised.							
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1	5	ug/l	1
05387	Bromomethane	74-83-9	N.D.		1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525794 WW Group No. 1119637

MW-6 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 14:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05389	Trichlorofluoromethane	75-69-4	N.D.	2	5	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.	0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.	2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.	0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.	1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.	1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.	0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.	0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.	1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.	0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.	1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.	1	5	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	4	ug/l	1
05402	1,2-Dichloroethane	107-06-2	N.D.	0.5	4	ug/l	1
05403	Trichloroethene	79-01-6	N.D.	1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.	1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.	1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.	1	5	ug/l	1
05407	Toluene	108-88-3	N.D.	0.5	4	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.	0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.	0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.	1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.	1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.	0.5	4	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.	0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	1	5	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.5	4	ug/l	1
05416	m+p-Xylene	1330-20-7	N.D.	0.5	4	ug/l	1
05417	o-Xylene	95-47-6	N.D.	0.5	4	ug/l	1
05418	Styrene	100-42-5	N.D.	1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.	1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	N.D.	1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.	1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.	1	5	ug/l	1
05424	n-Propylbenzene	103-65-1	N.D.	1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.	1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	N.D.	1	5	ug/l	1
05427	4-Chlorotoluene	106-43-4	N.D.	1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	N.D.	1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525794 WW Group No. 1119637

MW-6 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 14:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05429	1,2,4-Trimethylbenzene	95-63-6	N.D.	1	5	ug/l	1
05430	sec-Butylbenzene	135-98-8	N.D.	1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	N.D.	1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.	1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.	1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	N.D.	1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.	1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.	1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.	2	5	ug/l	1
05439	Naphthalene	91-20-3	N.D.	1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.	1	5	ug/l	1
08202	EPA SW 846/8260 - Water						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	4	ug/l	1
06302	Acetone	67-64-1	N.D.	6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.	1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.	3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.	1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.	1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.	3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.	3	10	ug/l	1

State of Washington Lab Certification No. C259
Due to a laboratory error, this sample was not analyzed for dissolved lead.

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/14/2008 14:39	David K Beck	10

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525794 WW Group No. 1119637

MW-6 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 14:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM6

02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/21/2008 18:42	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 18:25	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 13:57	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 11:17	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 11:17	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 18:25	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 11:17	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 08:45	Damary Valentin	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5525796 WW Group No. 1119637

MW-7 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM7

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	95.2		0.050	1.0	ug/l	1
02211	NWTPH-Dx water w/Si Gel							
10376	DRO C12-C24 w/Si Gel	n.a.	2,500		29	98	ug/l	1
10377	HRO C24-C40 w/Si Gel	n.a.	400		69	250	ug/l	1
08273	TPH by NWTPH-Gx waters							
01645	TPH by NWTPH-Gx waters	n.a.	4,400		50	250	ug/l	1
08357	PAHs in waters by SIM							
08362	Naphthalene	91-20-3	6.7		0.010	0.050	ug/l	1
08365	Acenaphthylene	208-96-8	N.D.		0.040	0.050	ug/l	1
08366	Acenaphthene	83-32-9	0.18		0.010	0.050	ug/l	1
08368	Fluorene	86-73-7	0.33		0.010	0.050	ug/l	1
08369	Phenanthrene	85-01-8	0.057		0.010	0.050	ug/l	1
08370	Anthracene	120-12-7	0.041	J	0.010	0.050	ug/l	1
08372	Fluoranthene	206-44-0	0.010	J	0.010	0.050	ug/l	1
08373	Pyrene	129-00-0	0.014	J	0.010	0.050	ug/l	1
08374	Benzo(a)anthracene	56-55-3	N.D.		0.010	0.050	ug/l	1
08375	Chrysene	218-01-9	N.D.		0.010	0.050	ug/l	1
08376	Benzo(b)fluoranthene	205-99-2	N.D.		0.010	0.050	ug/l	1
08377	Benzo(k)fluoranthene	207-08-9	N.D.		0.010	0.050	ug/l	1
08378	Benzo(a)pyrene	50-32-8	N.D.		0.010	0.050	ug/l	1
08379	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.		0.010	0.050	ug/l	1
08380	Dibenz(a,h)anthracene	53-70-3	N.D.		0.010	0.050	ug/l	1
08381	Benzo(g,h,i)perylene	191-24-2	N.D.		0.010	0.050	ug/l	1
	Due to the presence of an interferent near the retention time of acenaphthylene, the reporting limit was raised. This was due to the fact that the interferent had a significant abundance of ions at or near the mass of acenaphthylene.							
05382	EPA SW846/8260 (water)							
05384	Dichlorodifluoromethane	75-71-8	N.D.		2	5	ug/l	1
05385	Chloromethane	74-87-3	N.D.		1	5	ug/l	1
05386	Vinyl Chloride	75-01-4	N.D.		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525796 WW Group No. 1119637

MW-7 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM7

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05387	Bromomethane	74-83-9	N.D.		1	5	ug/l	1
05388	Chloroethane	75-00-3	N.D.		1	5	ug/l	1
05389	Trichlorofluoromethane	75-69-4	N.D.		2	5	ug/l	1
05390	1,1-Dichloroethene	75-35-4	N.D.		0.8	5	ug/l	1
05391	Methylene Chloride	75-09-2	N.D.		2	5	ug/l	1
05392	trans-1,2-Dichloroethene	156-60-5	N.D.		0.8	5	ug/l	1
05393	1,1-Dichloroethane	75-34-3	N.D.		1	5	ug/l	1
05394	2,2-Dichloropropane	594-20-7	N.D.		1	5	ug/l	1
05395	cis-1,2-Dichloroethene	156-59-2	N.D.		0.8	5	ug/l	1
05396	Chloroform	67-66-3	N.D.		0.8	5	ug/l	1
05397	Bromochloromethane	74-97-5	N.D.		1	5	ug/l	1
05398	1,1,1-Trichloroethane	71-55-6	N.D.		0.8	5	ug/l	1
05399	Carbon Tetrachloride	56-23-5	N.D.		1	5	ug/l	1
05400	1,1-Dichloropropene	563-58-6	N.D.		1	5	ug/l	1
05401	Benzene	71-43-2	2	J	0.5	4	ug/l	1
05402	1,2-Dichloroethane	107-06-2	4		0.5	4	ug/l	1
05403	Trichloroethene	79-01-6	N.D.		1	5	ug/l	1
05404	1,2-Dichloropropane	78-87-5	N.D.		1	5	ug/l	1
05405	Dibromomethane	74-95-3	N.D.		1	5	ug/l	1
05406	Bromodichloromethane	75-27-4	N.D.		1	5	ug/l	1
05407	Toluene	108-88-3	2	J	0.5	4	ug/l	1
05408	1,1,2-Trichloroethane	79-00-5	N.D.		0.8	5	ug/l	1
05409	Tetrachloroethene	127-18-4	N.D.		0.8	5	ug/l	1
05410	1,3-Dichloropropane	142-28-9	N.D.		1	5	ug/l	1
05411	Dibromochloromethane	124-48-1	N.D.		1	5	ug/l	1
05412	1,2-Dibromoethane	106-93-4	N.D.		0.5	4	ug/l	1
05413	Chlorobenzene	108-90-7	N.D.		0.8	5	ug/l	1
05414	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		1	5	ug/l	1
05415	Ethylbenzene	100-41-4	25		0.5	4	ug/l	1
05416	m+p-Xylene	1330-20-7	40		0.5	4	ug/l	1
05417	o-Xylene	95-47-6	9		0.5	4	ug/l	1
05418	Styrene	100-42-5	N.D.		1	5	ug/l	1
05419	Bromoform	75-25-2	N.D.		1	5	ug/l	1
05420	Isopropylbenzene	98-82-8	29		1	5	ug/l	1
05421	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		1	5	ug/l	1
05422	Bromobenzene	108-86-1	N.D.		1	5	ug/l	1
05423	1,2,3-Trichloropropane	96-18-4	N.D.		1	5	ug/l	1
05424	n-Propylbenzene	103-65-1	38		1	5	ug/l	1
05425	2-Chlorotoluene	95-49-8	N.D.		1	5	ug/l	1
05426	1,3,5-Trimethylbenzene	108-67-8	59		1	5	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525796 WW Group No. 1119637

MW-7 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM7

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
05427	4-Chlorotoluene	106-43-4	N.D.		1	5	ug/l	1
05428	tert-Butylbenzene	98-06-6	1	J	1	5	ug/l	1
05429	1,2,4-Trimethylbenzene	95-63-6	150		1	5	ug/l	1
05430	sec-Butylbenzene	135-98-8	11		1	5	ug/l	1
05431	p-Isopropyltoluene	99-87-6	13		1	5	ug/l	1
05432	1,3-Dichlorobenzene	541-73-1	N.D.		1	5	ug/l	1
05433	1,4-Dichlorobenzene	106-46-7	N.D.		1	5	ug/l	1
05434	n-Butylbenzene	104-51-8	5		1	5	ug/l	1
05435	1,2-Dichlorobenzene	95-50-1	N.D.		1	5	ug/l	1
05436	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		2	5	ug/l	1
05437	1,2,4-Trichlorobenzene	120-82-1	N.D.		1	5	ug/l	1
05438	Hexachlorobutadiene	87-68-3	N.D.		2	5	ug/l	1
05439	Naphthalene	91-20-3	12		1	5	ug/l	1
05440	1,2,3-Trichlorobenzene	87-61-6	N.D.		1	5	ug/l	1
08202	EPA SW 846/8260 - Water							
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.		0.5	4	ug/l	1
06302	Acetone	67-64-1	23		6	20	ug/l	1
06303	Carbon Disulfide	75-15-0	N.D.		1	5	ug/l	1
06305	2-Butanone	78-93-3	N.D.		3	10	ug/l	1
06306	trans-1,3-Dichloropropene	10061-02-6	N.D.		1	5	ug/l	1
06307	cis-1,3-Dichloropropene	10061-01-5	N.D.		1	5	ug/l	1
06308	4-Methyl-2-pentanone	108-10-1	N.D.		3	10	ug/l	1
06309	2-Hexanone	591-78-6	N.D.		3	10	ug/l	1

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:29	Choon Y Tian	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. 5525796 WW Group No. 1119637

MW-7 Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:20 by ML

Account Number: 12181

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

TEKM7

02211	TPH by NWTPH-Dx(water) w/SiGel	ECY 97-602 NWTPH-Dx modified	1	11/21/2008 19:03	Heather E Williams	1
08273	TPH by NWTPH-Gx waters	ECY 97-602 NWTPH-Gx modified	1	11/18/2008 18:47	Katrina T Longenecker	1
08357	PAHs in waters by SIM	SW-846 8270C SIM	1	11/14/2008 14:28	Timothy J Trees	1
05382	EPA SW846/8260 (water)	SW-846 8260B	1	11/19/2008 11:41	Matthew S Woods	1
08202	EPA SW 846/8260 - Water	SW-846 8260B	1	11/19/2008 11:41	Matthew S Woods	1
00813	BNA Water Extraction	SW-846 3510C	1	11/13/2008 13:00	Eric M Walker	1
01146	GC VOA Water Prep	SW-846 5030B	1	11/18/2008 18:47	Katrina T Longenecker	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/19/2008 11:41	Matthew S Woods	1
02135	Extraction - DRO Water Special	ECY 97-602 NWTPH-Dx 06/97	1	11/21/2008 01:15	Roman Kuropatkin	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Lancaster Laboratories Sample No. 5525797 WW Group No. 1119637

MW-7 Filtered Grab Water Sample
Facility# 352300 Job# 385853
State Route 274 - Tekoa, WA

Collected:11/10/2008 15:20 by ML

Submitted: 11/12/2008 09:00
Reported: 11/24/2008 at 12:32
Discard: 12/25/2008

Account Number: 12181

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
06035	Lead	7439-92-1	0.063 J	0.050	1.0	ug/l	1

State of Washington Lab Certification No. C259
This sample was filtered in the lab for dissolved metals.

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#	Analysis Date and Time	Analyst	Dilution Factor
06035	Lead	SW-846 6020	1	11/15/2008 12:32	Choon Y Tian	1
06050	ICP/MS SW-846 Water	SW-846 3010A modified	1	11/14/2008 09:53	Denise K Conners	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron
Reported: 11/24/08 at 12:32 PM

Group Number: 1119637

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**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 083186050003A	Sample number(s): 5525786-5525787,5525789-5525792,5525796-5525797								
Lead	0.073 J	0.050	1.0	ug/l	99		90-115		
Batch number: 08318WAB026	Sample number(s): 5525786,5525788-5525789,5525791,5525793-5525794,5525796								
Naphthalene	N.D.	0.010	0.050	ug/l	87	82	72-109	6	30
Acenaphthylene	N.D.	0.010	0.050	ug/l	86	83	70-110	4	30
Acenaphthene	N.D.	0.010	0.050	ug/l	87	83	74-109	4	30
Fluorene	N.D.	0.010	0.050	ug/l	91	87	75-114	5	30
Phenanthrene	N.D.	0.010	0.050	ug/l	94	91	76-111	4	30
Anthracene	N.D.	0.010	0.050	ug/l	87	83	66-111	5	30
Fluoranthene	N.D.	0.010	0.050	ug/l	88	86	75-116	3	30
Pyrene	N.D.	0.010	0.050	ug/l	91	85	69-118	7	30
Benzo(a)anthracene	N.D.	0.010	0.050	ug/l	91	86	72-114	5	30
Chrysene	N.D.	0.010	0.050	ug/l	95	89	76-116	6	30
Benzo(b)fluoranthene	N.D.	0.010	0.050	ug/l	96	91	69-123	5	30
Benzo(k)fluoranthene	N.D.	0.010	0.050	ug/l	94	90	72-122	4	30
Benzo(a)pyrene	N.D.	0.010	0.050	ug/l	89	84	64-115	6	30
Indeno(1,2,3-cd)pyrene	N.D.	0.010	0.050	ug/l	99	94	69-124	5	30
Dibenz(a,h)anthracene	N.D.	0.010	0.050	ug/l	100	95	71-125	5	30
Benzo(g,h,i)perylene	N.D.	0.010	0.050	ug/l	99	94	68-125	5	30
Batch number: 083196050001A	Sample number(s): 5525794								
Lead	N.D.	0.050	1.0	ug/l	107		90-115		
Batch number: 08322C20A	Sample number(s): 5525785-5525786,5525788-5525789,5525791,5525793-5525794,5525796								
TPH by NWTPH-Gx waters	N.D.	50.	250	ug/l	100	100	75-135	0	30
Batch number: 083250024A	Sample number(s): 5525786,5525788-5525789,5525791,5525793-5525794,5525796								
DRO C12-C24 w/Si Gel	N.D.	30.	100	ug/l	75	76	61-106	2	20
HRO C24-C40 w/Si Gel	N.D.	70.	250	ug/l					
Batch number: W083241AA	Sample number(s): 5525786,5525788-5525789,5525791,5525793-5525794,5525796								
Methyl Tertiary Butyl Ether	N.D.	0.5	4	ug/l	92		73-119		
Dichlorodifluoromethane	N.D.	2.	5	ug/l	96		45-158		
Chloromethane	N.D.	1.	5	ug/l	96		47-133		
Vinyl Chloride	N.D.	1.	5	ug/l	86		62-128		
Bromomethane	N.D.	1.	5	ug/l	98		50-128		
Chloroethane	N.D.	1.	5	ug/l	97		56-128		
Trichlorofluoromethane	N.D.	2.	5	ug/l	101		60-137		
1,1-Dichloroethene	N.D.	0.8	5	ug/l	92		76-122		
Methylene Chloride	N.D.	2.	5	ug/l	85		85-120		
trans-1,2-Dichloroethene	N.D.	0.8	5	ug/l	90		83-117		
1,1-Dichloroethane	N.D.	1.	5	ug/l	93		83-127		
2,2-Dichloropropane	N.D.	1.	5	ug/l	94		74-130		
cis-1,2-Dichloroethene	N.D.	0.8	5	ug/l	91		84-117		
Chloroform	N.D.	0.8	5	ug/l	94		77-125		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(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.

Quality Control Summary

Client Name: Chevron
Group Number: 1119637
Reported: 11/24/08 at 12:32 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Bromochloromethane	N.D.	1.	5	ug/l	94		83-121		
1,1,1-Trichloroethane	N.D.	0.8	5	ug/l	95		83-127		
Carbon Tetrachloride	N.D.	1.	5	ug/l	91		77-130		
1,1-Dichloropropene	N.D.	1.	5	ug/l	93		84-116		
Benzene	N.D.	0.5	4	ug/l	92		78-119		
1,2-Dichloroethane	N.D.	0.5	4	ug/l	102		69-135		
Trichloroethene	N.D.	1.	5	ug/l	92		87-117		
1,2-Dichloropropane	N.D.	1.	5	ug/l	93		80-117		
Dibromomethane	N.D.	1.	5	ug/l	93		87-117		
Bromodichloromethane	N.D.	1.	5	ug/l	90		83-121		
Toluene	N.D.	0.5	4	ug/l	89		85-115		
1,1,2-Trichloroethane	N.D.	0.8	5	ug/l	88		86-113		
Tetrachloroethene	N.D.	0.8	5	ug/l	85		76-118		
1,3-Dichloropropane	N.D.	1.	5	ug/l	91		84-119		
Dibromochloromethane	N.D.	1.	5	ug/l	81		78-119		
1,2-Dibromoethane	N.D.	0.5	4	ug/l	86		81-114		
Chlorobenzene	N.D.	0.8	5	ug/l	87		85-115		
1,1,1,2-Tetrachloroethane	N.D.	1.	5	ug/l	85		83-114		
Ethylbenzene	N.D.	0.5	4	ug/l	88		82-119		
m+p-Xylene	N.D.	0.5	4	ug/l	88		83-113		
o-Xylene	N.D.	0.5	4	ug/l	86		83-113		
Styrene	N.D.	1.	5	ug/l	86		82-111		
Bromoform	N.D.	1.	5	ug/l	74		69-118		
Isopropylbenzene	N.D.	1.	5	ug/l	87		80-113		
1,1,2,2-Tetrachloroethane	N.D.	1.	5	ug/l	89		72-119		
Bromobenzene	N.D.	1.	5	ug/l	88		82-110		
1,2,3-Trichloropropane	N.D.	1.	5	ug/l	95		78-117		
n-Propylbenzene	N.D.	1.	5	ug/l	93		78-119		
2-Chlorotoluene	N.D.	1.	5	ug/l	88		78-115		
1,3,5-Trimethylbenzene	N.D.	1.	5	ug/l	89		78-116		
4-Chlorotoluene	N.D.	1.	5	ug/l	90		80-112		
tert-Butylbenzene	N.D.	1.	5	ug/l	88		74-114		
1,2,4-Trimethylbenzene	N.D.	1.	5	ug/l	90		78-117		
sec-Butylbenzene	N.D.	1.	5	ug/l	89		72-120		
p-Isopropyltoluene	N.D.	1.	5	ug/l	89		72-118		
1,3-Dichlorobenzene	N.D.	1.	5	ug/l	88		81-114		
1,4-Dichlorobenzene	N.D.	1.	5	ug/l	88		84-116		
n-Butylbenzene	N.D.	1.	5	ug/l	89		75-120		
1,2-Dichlorobenzene	N.D.	1.	5	ug/l	88		81-112		
1,2-Dibromo-3-chloropropane	N.D.	2.	5	ug/l	84		65-121		
1,2,4-Trichlorobenzene	N.D.	1.	5	ug/l	79		65-114		
Hexachlorobutadiene	N.D.	2.	5	ug/l	74		62-119		
Naphthalene	N.D.	1.	5	ug/l	80		61-116		
1,2,3-Trichlorobenzene	N.D.	1.	5	ug/l	80		67-114		
Acetone	N.D.	6.	20	ug/l	137		40-200		
Carbon Disulfide	N.D.	1.	5	ug/l	87		69-119		
2-Butanone	N.D.	3.	10	ug/l	106		63-157		
trans-1,3-Dichloropropene	N.D.	1.	5	ug/l	86		79-114		
cis-1,3-Dichloropropene	N.D.	1.	5	ug/l	89		78-114		
4-Methyl-2-pentanone	N.D.	3.	10	ug/l	96		63-126		
2-Hexanone	N.D.	3.	10	ug/l	96		61-140		
Batch number: Z083242AA	Sample number(s): 5525785								
Benzene	N.D.	0.5	1	ug/l	95		78-119		
Toluene	N.D.	0.5	1	ug/l	105		85-115		

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: Chevron Group Number: 1119637
Reported: 11/24/08 at 12:32 PM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Ethylbenzene	N.D.	0.5	1	ug/l	103		82-119		
Xylene (Total)	N.D.	0.5	1	ug/l	104		83-113		

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: 083186050003A	Sample number(s): 5525786-5525787,5525789-5525792,5525796-5525797 UNSPK: P526821 BKG: P526821								
Lead	97	97	75-125	0	20	2.7	2.8	2 (1)	20
Batch number: 083196050001A	Sample number(s): 5525794 UNSPK: 5525794 BKG: 5525794								
Lead	-22 (2)	-237 (2)	75-125	5	20	649	642	1	20
Batch number: 08322C20A	Sample number(s): 5525785-5525786,5525788-5525789,5525791,5525793-5525794,5525796 UNSPK: P525480								
TPH by NWTPH-Gx waters	109		63-154						
Batch number: W083241AA	Sample number(s): 5525786,5525788-5525789,5525791,5525793-5525794,5525796 UNSPK: 5525788								
Methyl Tertiary Butyl Ether	88	92	69-127	4	30				
Dichlorodifluoromethane	107	114	52-192	6	30				
Chloromethane	103	104	58-157	0	30				
Vinyl Chloride	91	95	68-147	5	30				
Bromomethane	97	99	54-140	2	30				
Chloroethane	100	101	60-140	1	30				
Trichlorofluoromethane	109	111	68-163	1	30				
1,1-Dichloroethene	96	103	87-145	6	30				
Methylene Chloride	80	86	79-133	8	30				
trans-1,2-Dichloroethene	93	97	82-133	5	30				
1,1-Dichloroethane	95	100	85-135	5	30				
2,2-Dichloropropane	96	101	79-146	5	30				
cis-1,2-Dichloroethene	91	95	83-126	4	30				
Chloroform	93	98	83-139	5	30				
Bromochloromethane	93	95	82-129	2	30				
1,1,1-Trichloroethane	97	101	81-142	5	30				
Carbon Tetrachloride	95	100	82-149	5	30				
1,1-Dichloropropene	96	100	86-134	4	30				
Benzene	91	95	83-128	5	30				
1,2-Dichloroethane	98	103	70-143	5	30				
Trichloroethene	92	98	83-136	6	30				
1,2-Dichloropropane	90	96	83-129	6	30				
Dibromomethane	87	92	82-128	6	30				
Bromodichloromethane	88	92	80-137	5	30				
Toluene	89	93	83-127	5	30				
1,1,2-Trichloroethane	95	95	77-125	0	30				
Tetrachloroethene	87	90	78-133	4	30				
1,3-Dichloropropane	85	90	82-121	5	30				

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: Chevron
Reported: 11/24/08 at 12:32 PM

Group Number: 1119637

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
Dibromochloromethane	78*	83	80-128	7	30				
1,2-Dibromoethane	82	87	78-120	6	30				
Chlorobenzene	87	90	83-120	3	30				
1,1,1,2-Tetrachloroethane	84	88	83-119	5	30				
Ethylbenzene	90	94	82-129	4	30				
m+p-Xylene	89	92	82-130	4	30				
o-Xylene	87	91	82-130	5	30				
Styrene	84	87	69-131	4	30				
Bromoform	70	73	64-119	3	30				
Isopropylbenzene	100	101	81-130	0	30				
1,1,2,2-Tetrachloroethane	87	90	73-121	4	30				
Bromobenzene	84	89	83-121	5	30				
1,2,3-Trichloropropane	85	89	73-125	4	30				
n-Propylbenzene	104	105	74-138	1	30				
2-Chlorotoluene	89	92	78-121	4	30				
1,3,5-Trimethylbenzene	108	104	75-132	1	30				
4-Chlorotoluene	88	91	81-123	3	30				
tert-Butylbenzene	92	96	76-128	4	30				
1,2,4-Trimethylbenzene	128 (2)	109 (2)	80-125	2	30				
sec-Butylbenzene	94	95	73-137	1	30				
p-Isopropyltoluene	92	94	74-135	1	30				
1,3-Dichlorobenzene	86	90	79-123	4	30				
1,4-Dichlorobenzene	84	89	81-122	5	30				
n-Butylbenzene	88	89	70-141	0	30				
1,2-Dichlorobenzene	85	89	82-117	5	30				
1,2-Dibromo-3-chloropropane	96	102	60-131	6	30				
1,2,4-Trichlorobenzene	79	83	60-121	5	30				
Hexachlorobutadiene	63	60	51-135	5	30				
Naphthalene	86	96	57-125	6	30				
1,2,3-Trichlorobenzene	75	82	65-127	8	30				
Acetone	85	92	54-150	7	30				
Carbon Disulfide	92	97	69-146	6	30				
2-Butanone	77	82	57-137	7	30				
trans-1,3-Dichloropropene	82	88	77-123	7	30				
cis-1,3-Dichloropropene	84	90	72-124	6	30				
4-Methyl-2-pentanone	88	94	61-131	7	30				
2-Hexanone	82	89	60-135	8	30				

Batch number: Z083242AA Sample number(s): 5525785 UNSPK: P524243

Benzene	105	101	83-128	3	30
Toluene	114	114	83-127	0	30
Ethylbenzene	113	110	82-129	2	30
Xylene (Total)	112	109	82-130	3	30

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: PAHs in waters by SIM

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: Chevron
Reported: 11/24/08 at 12:32 PM

Group Number: 1119637

Surrogate Quality Control

Batch number: 08318WAB026

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
5525786	96	92	91
5525788	88	80	77
5525789	97	94	92
5525791	93	93	86
5525793	99	98	97
5525794	103	95	78
5525796	103	93	100
Blank	92	95	105
LCS	93	96	106
LCSD	86	91	99
Limits:	64-147	68-132	69-140

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 08322C20A

	Trifluorotoluene-F
5525785	71
5525786	69
5525788	67
5525789	85
5525791	70
5525793	69
5525794	68
5525796	87
Blank	67
LCS	94
LCSD	91
MS	112
Limits:	63-135

Analysis Name: NWTPH-Dx water w/Si Gel
Batch number: 083250024A

	Orthoterphenyl
5525786	96
5525788	120
5525789	90
5525791	104
5525793	138
5525794	105
5525796	112
Blank	104
LCS	108
LCSD	111
Limits:	50-150

Analysis Name: EPA SW846/8260 (water)
Batch number: W083241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5525786	88	87	87	88
5525788	88	87	87	88

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

Quality Control Summary

Client Name: Chevron
Reported: 11/24/08 at 12:32 PM

Group Number: 1119637

Surrogate Quality Control

5525789	87	87	87	88
5525791	89	87	87	87
5525793	88	87	86	86
5525794	89	86	87	88
5525796	88	85	92	89
Blank	87	86	87	86
LCS	89	89	89	91
MS	89	88	89	90
MSD	89	88	89	91
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX by 8260B
Batch number: Z083242AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5525785	101	97	106	95
Blank	102	97	104	94
LCS	98	95	104	98
MS	100	96	105	98
MSD	95	95	107	95
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(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.

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