



18912 North Creek Parkway, Suite 101, Bothell, Washington 98011
(425) 482-3321 Fax (425) 485-5566

November 10, 2007

Mr. Brett Hunter
Chevron Environmental Management Company
6001 Bollinger Canyon Road, Room K2252
San Ramon, California 94583

**Re: Third Quarter 2007 Groundwater Monitoring Report
Former Standard Oil Service Station No. 305192
9816 271st Street NW, Stanwood, Washington**

RECEIVED

NOV 19 2007

DEPT. OF ECOLOGY
TCP-NWRO

Mr. Hunter:

Science Applications International Corporation (SAIC) has prepared this Groundwater Monitoring Report for the above referenced site in Stanwood, Washington. The third quarter 2007 groundwater monitoring event was conducted by Gettler-Ryan, Inc. on July 15, 2007. A copy of Gettler-Ryan's *Groundwater Monitoring and Sampling Report* has been included as Attachment A.

Field Activities

Prior to sample collection, depth to groundwater measurements were collected from each of the four monitoring wells present at this site. At the time of this monitoring event, groundwater elevation (based on an arbitrary benchmark elevation of 100.00 feet) ranged from 95.74 feet in monitoring well MW-1 to 97.00 feet in monitoring well MW-3. Groundwater flow at the time of this event was toward the west-northwest at a gradient of approximately 0.01 feet per foot (ft/ft). Groundwater elevations had decreased an average of 1.04 feet from the previous groundwater monitoring event conducted in April 2007, with the exception of monitoring well MW-4 which appears to have increased in elevation by 0.29 feet.

At the time groundwater elevation data was collected, each monitoring well was checked for the presence of separate-phase hydrocarbon (SPH). None of the four monitoring wells present at the site contained a measurable thickness of SPH.

Groundwater samples were collected from all four monitoring wells present at this site and submitted to Lancaster Laboratories for analysis of gasoline-range hydrocarbons by

Washington State Department of Ecology (WDOE) Method NWTPH-G; for diesel and oil range hydrocarbons by WDOE Method NWTPH-Dx and for benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B.

Groundwater Analytical Results

Total Petroleum Hydrocarbons – (TPH) as gasoline-range hydrocarbons (TPH-G) were not detected at concentrations exceeding the 500 micrograms per liter ($\mu\text{g/L}$) laboratory Method Detection Limit (MDL), in any of the four wells sampled during this event.

TPH as diesel-range hydrocarbon (TPH-D) was detected in three of the four monitoring wells (MW-2, MW-3 and MW-4) sampled, at concentrations of 850 $\mu\text{g/L}$, 250 $\mu\text{g/L}$ and 7,800 $\mu\text{g/L}$, respectively. TPH-D was not detected in well MW-1 at a concentration exceeding the 81 $\mu\text{g/L}$ MDL. **NOTE: The concentrations of TPH-D presented in the GRI report for wells MW-2 and MW-4 were inadvertently transposed due to sample bottle mislabeling. The sample values presented in this summary have been corrected for this error.**

TPH as oil-range hydrocarbon (TPH-O) was detected in two of the four wells (MW-2 and MW-3) sampled, at concentrations of 320 $\mu\text{g/L}$ and 150 $\mu\text{g/L}$, respectively. TPH-O was not detected in wells MW-1 or MW-2 at concentrations exceeding the 81 $\mu\text{g/L}$ MDL. **NOTE: The concentrations of TPH-O presented in the GRI report for wells MW-2 and MW-4 were inadvertently transposed due to sample bottle mislabeling. The sample values presented in this summary have been corrected for this error.**

BTEX - Benzene was detected in one of the four wells sampled at a concentration exceeding the 0.5 $\mu\text{g/L}$ MDL for this compound. Benzene was detected in well MW-2 at a concentration of 13 $\mu\text{g/L}$. None of the other three wells sampled contained benzene at concentrations exceeding its MDL, and none of the four wells present at this site contained toluene, ethylbenzene, total xylenes or MTBE at concentrations exceeding their respective MDLs.

Discussion

Based on a review of the data collected during this groundwater sampling event, constituent concentrations in all of the wells present were consistent with historical concentrations. As noted above, the TPH-D and O concentrations presented in the GRI report were inadvertently transposed.

The continuing presence of TPH as diesel and oil at the subject site may be a result of the motor oil and other petroleum liquids which remain present in two small UST's located beneath the alleyway adjacent to the southern property boundary. The presence of a high-pressure natural gas line running over the top of these two tanks has complicated their removal.

*Third Quarter 2007 Groundwater Monitoring Report
Former Standard Oil Service Station No. 305192*

Summary

Groundwater elevations recorded during this monitoring event were within the historic elevation range observed at the site, and no measurable thickness of SPH was present in any of the four monitoring wells present. TPH-D and O in groundwater were detected in three of the four monitoring wells sampled during this event at concentration at or above their respective MDLs, and in wells MW-2 and MW-4 at concentrations exceeding the MTCA Method A cleanup levels. Benzene, at a concentration of 13 µg/L (which exceeds the 5 µg/L MTCA Method A cleanup level for this compound) was detected in well MW-2. The next quarterly groundwater monitoring round is scheduled for October 2007.

If you have any questions regarding the contents of this letter, please contact Peter Catterall at 425-482-3321 or at catterallp@saic.com.

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION



Peter Catterall
Senior Project Manager

Attachments: Attachment A – Gettler-Ryan, Inc. Reports

cc: Mr. Joe Hickey, WDOE Northwest Region, Toxics Cleanup Program,
3190 160th Avenue SE, Bellevue, WA 98008-5452

Mr. Eldon (Wayne) Raplee, 14115 70th Ave. NW, Stanwood, WA 98292

DCS: CO1-SAI-305192-01-13677

Limitation of use: SAIC's investigation was restricted to collection and analyses of a limited number of environmental samples, visual observations and field data, in addition to summarizing available information from previous site documents. Note that not all pertinent documents were available at the time of the investigation. SAIC cannot guarantee the accuracy or interpretation from previous site investigations. Because the current investigation consisted of collecting and evaluating a limited supply of information, SAIC may not have identified all potential items of concern and, therefore, SAIC warrants only that the project activities under this contract have been performed within the parameters and scope communicated by Chevron Environmental Management Company and reflected in the contract. This report is intended to be used in its entirety; taking or using excerpts from this report is not permitted and any party doing so does at its own risk.



GETTLER - RYAN Inc.

TRANSMITTAL

August 17, 2007
G-R #387100

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

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

RE: **Former Chevron Service Station
#305192
9816 271st Street Northwest
Stanwood, Washington**

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DATED | DESCRIPTION |
|--------|-----------------|--|
| 4 | August 15, 2007 | Groundwater Monitoring and Sampling Report Event of July 15, 2007 |

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 Environmental Management Company, P.O. Box 6012, Room K2252,
San Ramon, CA 94583

Mr. Joe Hickey, WDOE, Northwest Region, Toxics Cleanup Program, 3190 160th Avenue, SE, Bellevue, WA
98008-5452

Mr. Wayne Raplee, 14115 70th Avenue NW, Stanwood, WA 98292

Current Site Check List included.

Enclosure

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DEPT. OF ECOLOGY
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trans/305192-BH



GETTLER-RYAN INC.

August 15, 2007
Job #387100

Mr. Brett Hunter
Chevron Environmental Management Company
P.O. Box 6012, Room K2252
San Ramon, CA 94583

RE: Event of July 15, 2007
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

Dear Mr. Hunter:

This report documents the 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 wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. 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

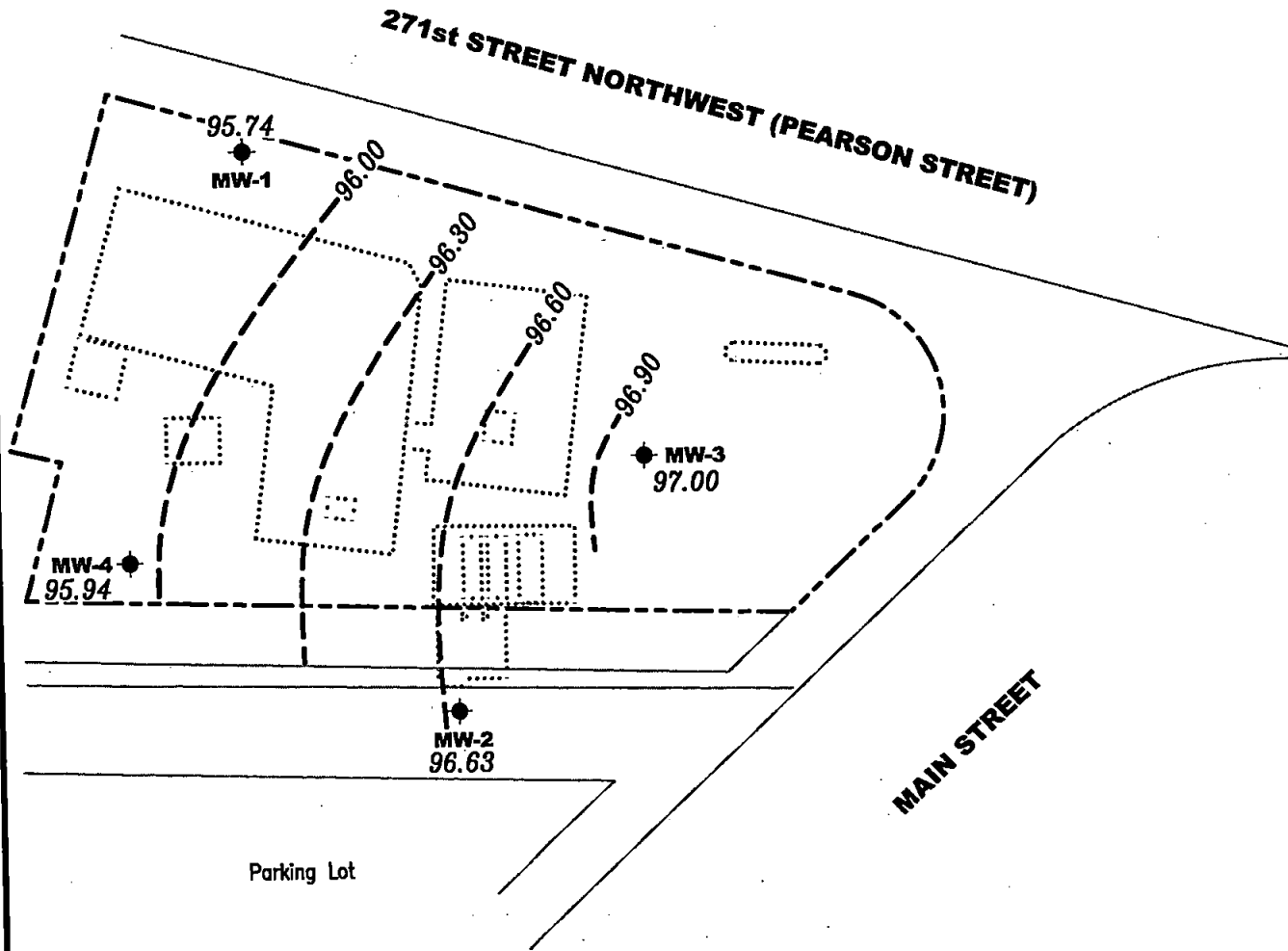


Douglas J. Lee

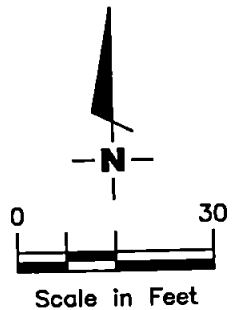
Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results
Table 3: Field Measurements
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

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 0.01 Ft./Ft.



Source: Figure modified from drawing provided by SAIC, Dated: 02/06/2006.

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

POTENTIOMETRIC MAP
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

FIGURE
1

PROJECT NUMBER
387100

REVIEWED BY

DATE
July 15, 2007

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (ft.) | TPH-D (ppb) | TPH-O (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | D-LEAD (ppb) |
|-----------------------|---------------|--------------|--------------|--------------------|---------------------|----------------|------------|------------|------------|------------|---------------|-----------------|
| MW-1 | | | | | | | | | | | | |
| 04/10/06 | 98.32 | 1.81 | 96.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/03/06 | 98.32 | -- | -- | 310 ¹ | 120 ¹ | <240 | <2.5 | <2.5 | 4.7 | 11 | <13 | <0.87 |
| 08/02/06 | PER 98.32 | 2.96 | 95.36 | 260 ¹ | 330 ¹ | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 10/10/06 | PER 98.32 | 2.55 | 95.77 | 150 ¹ | <100 ¹ | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 01/15/07 | PER 98.32 | 1.64 | 96.68 | <160 ¹ | <200 ¹ | <240 | <2.5 | <2.5 | <2.5 | <7.5 | <13 | -- |
| 04/25/07 | PER 98.32 | 1.58 | 96.74 | 190 ¹ | 130 ¹ | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 07/15/07 | PER 98.32 | 2.58 | 95.74 | <81 ¹ | <100 ¹ | <500 | <5.0 | <5.0 | <5.0 | <15 | <25 | -- |
| MW-2 | | | | | | | | | | | | |
| 04/10/06 | 99.58 | 2.29 | 97.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/03/06 | 99.58 | -- | -- | 1,400 ¹ | 560 ¹ | <240 | 13 | <2.5 | <2.5 | <7.5 | <13 | <0.87 |
| 08/02/06 | PER 99.58 | 2.98 | 96.60 | 2,000 ¹ | 1,800 ¹ | 220 | 20 | <0.5 | <0.5 | 1.6 | <2.5 | -- |
| 10/10/06 | PER 99.58 | 3.64 | 95.94 | 1,400 ¹ | 790 ¹ | <240 | 16 | <2.5 | <2.5 | <7.5 | <13 | -- |
| 01/15/07 | PER 99.58 | 2.08 | 97.50 | 810 ¹ | 270 ¹ | <240 | 9.3 | <2.5 | <2.5 | <7.5 | <13 | -- |
| 04/25/07 | PER 99.58 | 2.16 | 97.42 | 830 ¹ | 480 ¹ | 250 | 13 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 07/15/07 | PER 99.58 | 2.95 | 96.63 | 7,800 ¹ | <1,000 ¹ | <500 | 13 | <5.0 | <5.0 | <15 | <25 | -- |
| MW-3 | | | | | | | | | | | | |
| 04/10/06 | 99.16 | 0.40 | 98.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/03/06 | 99.16 | -- | -- | 580 ¹ | 240 ¹ | <240 | <2.5 | <2.5 | <2.5 | <7.5 | <13 | <0.87 |
| 08/02/06 | PER 99.16 | 2.61 | 96.55 | 350 ¹ | 380 ¹ | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 10/10/06 | PER 99.16 | 2.75 | 96.41 | 310 ¹ | 140 ¹ | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 01/15/07 | PER 99.16 | 0.50 | 98.66 | 250 ¹ | <100 ¹ | <240 | <2.5 | <2.5 | <2.5 | <7.5 | <13 | -- |
| 04/25/07 | PER 99.16 | 0.84 | 98.32 | 260 ¹ | 110 ¹ | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 07/15/07 | PER 99.16 | 2.16 | 97.00 | 250 ¹ | 150 ¹ | <500 | <5.0 | <5.0 | <5.0 | <15 | <25 | -- |
| MW-4 | | | | | | | | | | | | |
| 04/10/06 | 100.00 | 2.08 | 97.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 05/03/06 | 100.00 | -- | -- | 7,900 ¹ | <1,000 ¹ | <240 | <2.5 | <2.5 | <2.5 | <7.5 | <13 | <0.87 |
| 08/02/06 | PER 100.00 | 3.57 | 96.43 | 7,300 ¹ | <1,000 ¹ | 73 | <0.5 | <0.5 | <0.5 | 2.8 | <2.5 | -- |
| 10/10/06 ² | PER 100.00 | 4.28 | 95.72 | 7,900 ¹ | 2,200 ¹ | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 01/15/07 ² | PER 100.00 | 2.98 | 97.02 | 8,300 ¹ | 3,000 ¹ | <240 | <2.5 | <2.5 | <2.5 | <7.5 | <13 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

| WELL ID/ DATE | TOC* (ft.) | DTW (ft.) | GWE (ft.) | TPH-D (ppb) | TPH-O (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | D. LEAD (ppb) |
|---------------------------|---------------|--------------|--------------|--------------------|--------------------|----------------|------------|------------|------------|------------|---------------|------------------|
| MW-4(cont) | | | | | | | | | | | | |
| 04/25/07 ² PER | 100.00 | 4.35 | 95.65 | 9,300 ¹ | 2,000 ¹ | 89 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 07/15/07 PER | 100.00 | 4.06 | 95.94 | 850 ¹ | 320 ¹ | <500 | <5.0 | <5.0 | <5.0 | <15 | <25 | -- |
| TRIP BLANK | | | | | | | | | | | | |
| QA | | | | | | | | | | | | |
| 05/03/06 | -- | -- | -- | -- | -- | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 08/02/06 | -- | -- | -- | -- | -- | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 10/10/06 | -- | -- | -- | -- | -- | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 01/15/07 | -- | -- | -- | -- | -- | <48 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 04/25/07 | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |
| 07/15/07 | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | <2.5 | -- |

| | TPH-D | TPH-O | TPH-G | B | T | E | X | MTBE | D. LEAD |
|--|--------------------|-------|-----------|-----------------------|-------|-----|-------|------|----------|
| Standard Laboratory Reporting Limits: | 250 | 250 | 48 | 0.5 | 0.5 | 0.5 | 1.5 | 2.5 | 0.001 |
| MTC A Method A Cleanup Levels: | 500 | 500 | 800/1,000 | 5 | 1,000 | 700 | 1,000 | 20 | -- |
| Current Method: | NWTPH-D + Extended | | | NWTPH-G and EPA 8021B | | | | | EPA 7421 |

Table 1
Groundwater Monitoring Data and Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

EXPLANATIONS:

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-O = 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

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

PER = Peristaltic Pump used for Purging

QA = Quality Assurance/Trip Blank

MTCA = Model Toxics Control Act Cleanup Regulations
[WAC 173-340-720(2)(a)(I), as amended 02/01].

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

¹ TPH-D and TPH-O with silica gel cleanup.

² Incorrect TOC used to calculate GWE in past reports (99.16). Correct TOC is shown.

Table 2
Groundwater Analytical Results
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

| WELL ID | DATE | ETHANOL (ppb) | TBA (ppb) | MTBE (ppb) | DIPE (ppb) | ETBE (ppb) | TAME (ppb) | FULL SCAN EPA 8260 (ppb) |
|---------|----------|------------------|--------------|---------------|---------------|---------------|---------------|--------------------------------|
| MW-4 | 05/03/06 | <500 | <50 | <5 | <5 | <5 | <5 | <5 - <60 |

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
(ppb) = Parts per billion

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Field Measurements
Former Chevron Service Station #305192
9816 271st Street Northwest
Stanwood, Washington

| WELL ID | DATE | Time (2400 hr.) | pH | Conductivity ($\mu\text{mhos/cm}$) | Temperature ($^{\circ}\text{C}/\text{F}^{\circ}$) | Turbidity (NTU) |
|----------|----------|-----------------|----------|--------------------------------------|---|-----------------|
| MW-1 | 08/02/06 | 1055 | 6.72 | 401 | 15.4/-- | 93 |
| | | 1140 | 6.79 | 412 | 12.0/-- | -- |
| | 01/15/07 | 1144 | 6.72 | 408 | 11.8/-- | -- |
| | | 1149 | 6.68 | 403 | 11.7/-- | -- |
| | | 1259 | 6.39 | 752 | 13.5/-- | -- |
| | | 1542 | 6.31 | 589 | 17.8/-- | -- |
| MW-2 | 08/02/06 | 1017 | 6.49 | 430 | 15.2/-- | 371 |
| | | 1025 | 6.47 | 421 | 15.1/-- | 78 |
| | 01/15/07 | 1106 | 6.82 | 404 | 11.8/-- | -- |
| | | 1111 | 6.76 | 398 | 11.7/-- | -- |
| | | 1116 | 6.75 | 393 | 11.6/-- | -- |
| | 04/25/07 | 1158 | 6.60 | 856 | 12.8/-- | -- |
| | | 1442 | 6.56 | 572 | 17.5/-- | -- |
| | | MW-3 | 08/02/06 | 957 | 6.56 | 412 |
| 1041 | 6.70 | | | 407 | 11.9/-- | -- |
| 01/15/07 | 1046 | | 6.65 | 401 | 11.8/-- | -- |
| | 1051 | | 6.62 | 397 | 11.7/-- | -- |
| | 1227 | | 6.52 | 1266 | 12.3/-- | -- |
| 07/15/07 | 1512 | | 6.58 | 687 | 17.7/-- | -- |
| MW-4 | 08/02/06 | 920 | 6.76 | 433 | 15.6/-- | 176 |
| | | 926 | 6.73 | 429 | 15.5/-- | 72 |
| | 01/15/07 | 958 | 6.77 | 402 | 11.9/-- | -- |
| | | 1002 | 6.70 | 394 | 11.8/-- | -- |
| | | 1007 | 6.63 | 391 | 11.7/-- | -- |
| | 04/25/07 | 1337 | 7.38 | 620 | 12.8/-- | -- |
| | 07/15/07 | 1617 | 6.20 | 593 | 14.9/-- | -- |

EXPLANATIONS:

pH = Potential Hydrogen Ions
($\mu\text{mhos/cm}$) = Micromhos per cubic centimeter
($^{\circ}\text{C}/\text{F}^{\circ}$) = Degrees Celsius/ Fahrenheit
(NTU) = Nephelometric Turbidity Unit
-- = Not Measured

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.



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192 Job Number: 387100
 Site Address: 9816 271st Street NW Event Date: 7-15-07 (inclusive)
 City: Stanwood, WA Sampler: BWN

Well ID: MW - 1
 Well Diameter: 1.5 in.
 Total Depth: 19.4 ft.
 Depth to Water: 2.58 ft.

Date Monitored: 7-15-07 Well Condition: OK

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

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: Peristaltic

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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): 1530 Weather Conditions: Sunny
 Sample Time/Date: 1552-17-10-07 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (umhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|------------|-------------------------|-------------------|-------------|----------|
| <u>1542</u> | <u>1.5</u> | <u>6.3</u> | <u>589</u> | <u>17.8</u> | | |
| | | | | | | |
| | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---------------|---------------------|------------|---------------|------------------|---------------------------------|
| <u>MW - 1</u> | <u>3</u> x voa vial | <u>YES</u> | <u>HCL</u> | <u>LANCASTER</u> | <u>NWTPH-Gx/BTEX/MTBE(8021)</u> |
| <u>↓</u> | <u>2</u> x ambers | <u>YES</u> | <u>HCL</u> | <u>LANCASTER</u> | <u>NWTPH-Dx w/sgc</u> |
| | | | | | |
| | | | | | |

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192 Job Number: 387100
 Site Address: 9816 271st Street Nw Event Date: 7-15-07 (inclusive)
 City: Stanwood, WA Sampler: BWN

Well ID: MW-2 Date Monitored: 7-15-07 Well Condition: Plugged lock
 Well Diameter: 1.5 in.
 Total Depth: 14.21 ft.
 Depth to Water: 2.95 ft.

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

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: Peristaltic

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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): 1431 Weather Conditions: Sunny
 Sample Time/Date: 1450 / 7-15-07 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (u mhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|--------------------------|-------------------|-------------|----------|
| <u>1442</u> | <u>1.5</u> | <u>6.56</u> | <u>572</u> | <u>17.5</u> | | |
| | | | | | | |
| | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------|---------|---------------|------------|--------------------------|
| <u>MW-2</u> | <u>3</u> x voa vial | YES | HCL | LANCASTER | NWTPH-Gx/BTEX/MTBE(8021) |
| <u>↓</u> | <u>2</u> x ambers | YES | HCL | LANCASTER | NWTPH-Dx w/sgc |
| | | | | | |
| | | | | | |

COMMENTS: _____

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192 Job Number: 387100
 Site Address: 9816 271st Street NW Event Date: 7-15-07 (inclusive)
 City: Stanwood, WA Sampler: BWN

Well ID: MW-3 Date Monitored: 7-15-07 Well Condition: see site checks

Well Diameter: 2 in.
 Total Depth: 13.65 ft.
 Depth to Water: 2.16 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 |

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: peristaltic

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: peristaltic

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): 1459 Weather Conditions: sunny
 Sample Time/Date: 1521 / 7-15-07 Water Color: clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (umhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-------------------------|-------------------|-------------|----------|
| <u>1512</u> | <u>1.5</u> | <u>6.52</u> | <u>687</u> | <u>17.7</u> | | |
| | | | | | | |
| | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------|------------|---------------|------------------|---------------------------------|
| <u>MW-3</u> | <u>3</u> x voa vial | <u>YES</u> | <u>HCL</u> | <u>LANCASTER</u> | <u>NWTPH-Gx/BTEX/MTBE(8021)</u> |
| | <u>2</u> x ambers | <u>YES</u> | <u>HCL</u> | <u>LANCASTER</u> | <u>NWTPH-Dx w/sgc</u> |
| | | | | | |
| | | | | | |

COMMENTS: Lid broken sent picture to Deanna 7-15

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



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #305192 Job Number: 387100
 Site Address: 9816 271st Street Nw Event Date: 7-15-07 (inclusive)
 City: Stanwood, WA Sampler: BWN

Well ID: MW - 4 Date Monitored: 7-15-07 Well Condition: OK

Well Diameter: 6.5 in.
 Total Depth: 13.78 ft.
 Depth to Water: 4.06 ft.

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

xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump _____
 Suction Pump _____
 Grundfos _____
 Other: Peristaltic

Sampling Equipment:
 Disposable Bailer _____
 Pressure Bailer _____
 Discrete Bailer _____
 Other: Peristaltic

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

Start Time (purge): 1604 Weather Conditions: Sunny
 Sample Time/Date: 1627 7-15-07 Water Color: Clear Odor: no
 Purging Flow Rate: _____ gpm. Sediment Description: _____
 Did well de-water? no If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (umhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|-------------------------|-------------------|-------------|----------|
| <u>1617</u> | <u>1.5</u> | <u>6.20</u> | <u>593</u> | <u>14.9</u> | | |
| | | | | | | |
| | | | | | | |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---------------|---------------------|---------|---------------|------------|--------------------------|
| <u>MW - 4</u> | <u>3</u> x voa vial | YES | HCL | LANCASTER | NWTPH-Gx/BTEX/MTBE(8021) |
| <u>MW - 4</u> | <u>2</u> x ambers | YES | HCL | LANCASTER | NWTPH-Dx w/sgc |
| | | | | | |
| | | | | | |

COMMENTS: _____

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Chevron Northwest Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11260 Sample #: 5104784-88

SCR#: _____

G#1047175

Facility #: SS#305192-OML G-R#387100
 Site Address: 9816 271st Street NW, STANWOOD, WA
 Chevron PM: BH Lead Consultant: SAICPC
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: _____
 Service Order #: _____ Non SAR:

| Matrix | | Analyses Requested | | | | | | | | | | | | | | |
|--------------------------|--------------------------|----------------------------|-------|-----|-----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | | Preservation Codes | | | | | | | | | | | | | | |
| Potable | NPDES | Total Number of Containers | | | | | | | | | | | | | | |
| <input type="checkbox"/> | <input type="checkbox"/> | Soil | Water | Oil | Air | BTEX + MTBE | 8021 | 8260 | 8260 full scan | Oxygenates | TPH G | TPH D | Lead Total | VPHEPH | NWTPH HClD | quantification |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

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

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

| Sample Identification | Date Collected | Time Collected | Grab | Composite |
|-----------------------|----------------|----------------|-------------------------------------|-----------|
| <u>QA</u> | <u>7-15-07</u> | | <input checked="" type="checkbox"/> | |
| <u>MW-1</u> | | <u>1552</u> | <input checked="" type="checkbox"/> | |
| <u>MW-2</u> | | <u>1450</u> | <input checked="" type="checkbox"/> | |
| <u>MW-3</u> | | <u>1521</u> | <input checked="" type="checkbox"/> | |
| <u>MW-4</u> | | <u>1627</u> | <input checked="" type="checkbox"/> | |

Comments / Remarks

| | | | | | | |
|---|---|---|---------------------------------|----------------------|-------------------|---|
| Turnaround Time Requested (TAT) (please circle) <input checked="" type="radio"/> STD. TAT 24 hour 72 hour 48 hour 4 day 5 day | Relinquished by: <u>Ben Newton</u> | Date: <u>7-16-07</u> | Time: <u>1010</u> | Received by: _____ | Date: _____ | Time: _____ |
| | Relinquished by: _____ | Date: _____ | Time: _____ | Received by: _____ | Date: _____ | Time: _____ |
| Data Package Options (please circle if required) EDF/EDD QC Summary Type I - Full Type VI (Raw Data) Disk / EDD WIP (RWQCB) Standard Format Disk Other: _____ | Relinquished by: _____ | Date: _____ | Time: _____ | Received by: _____ | Date: _____ | Time: _____ |
| | Relinquished by Commercial Carrier: UPS <input checked="" type="radio"/> FedEx Other: _____ | Temperature Upon Receipt: <u>40-52</u> °C | Received by: <u>[Signature]</u> | Date: <u>7/16/07</u> | Time: <u>0920</u> | Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |



Analysis Report

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

ANALYTICAL RESULTS

Prepared for:

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

925-842-8582

Prepared by:

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

RECEIVED

JUL 26 2007

GETTLER-RYAN INC.
GENERAL CONTRACTORS

SAMPLE GROUP

The sample group for this submittal is 1047175. Samples arrived at the laboratory on Tuesday, July 17, 2007. The PO# for this group is 0015014990 and the release number is HUNTER.

Client Description

QA Water Sample
MW-1 Grab Water Sample
MW-2 Grab Water Sample
MW-3 Grab Water Sample
MW-4 Grab Water Sample

Lancaster Labs Number

5104784
5104785
5104786
5104787
5104788

ELECTRONIC SAIC c/o Gettler-Ryan
COPY TO

Attn: Cheryl Hansen



Analysis Report

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Questions? Contact your Client Services Representative
Lynn M Frederiksen at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Susan M. Goshert".

Susan M. Goshert
Group Leader

Lancaster Laboratories Sample No. **WW 5104784**

QA Water Sample
Facility# 305192 Job# 387100
9816 271st Street NW - Stanwood, WA
Collected: 07/15/2007

Account Number: 11260

Submitted: 07/17/2007 09:25
Reported: 07/26/2007 at 11:19
Discard: 08/26/2007

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

271QA

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

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 |
|---------|------------------------|------------------------------|--------|------------------------|-----------------|-----------------|
| 02159 | BTEX, MTBE | SW-846 8021B | 1 | 07/18/2007 13:07 | Martha L Seidel | 1 |
| 08274 | TPH by NWTPH-Gx waters | ECY 97-602 NWTPH-Gx modified | 1 | 07/18/2007 13:07 | Martha L Seidel | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/18/2007 13:07 | Martha L Seidel | 1 |



Analysis Report

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Lancaster Laboratories Sample No. WW 5104785

MW-1 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st Street NW - Stanwood, WA
 Collected: 07/15/2007 15:52 by BN

Account Number: 11260

Submitted: 07/17/2007 09:25
 Reported: 07/26/2007 at 11:19
 Discard: 08/26/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271S1

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--|------------|--------------------|------------------------------------|-------|-----------------|
| 02159 | BTEX, MTBE | | | | | |
| 02161 | Benzene | 71-43-2 | N.D. | 5.0 | ug/l | 10 |
| 02164 | Toluene | 108-88-3 | N.D. | 5.0 | ug/l | 10 |
| 02166 | Ethylbenzene | 100-41-4 | N.D. | 5.0 | ug/l | 10 |
| 02171 | Total Xylenes | 1330-20-7 | N.D. | 15. | ug/l | 10 |
| 02172 | Methyl tert-Butyl Ether | 1634-04-4 | N.D. | 25. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | N.D. | 81. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | N.D. | 100. | ug/l | 1 |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 500. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |

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 |
|---------|--------------------------------|------------------------------|--------|------------------------|--------------------|-----------------|
| 02159 | BTEX, MTBE | SW-846 8021B | 1 | 07/18/2007 14:59 | Martha L Seidel | 10 |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | ECY 97-602 NWTPH-Dx modified | 1 | 07/23/2007 22:09 | Heather E Williams | 1 |
| 08274 | TPH by NWTPH-Gx waters | ECY 97-602 NWTPH-Gx modified | 1 | 07/18/2007 14:59 | Martha L Seidel | 10 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/18/2007 14:59 | Martha L Seidel | 10 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH-Dx 06/97 | 1 | 07/20/2007 09:15 | Olivia I Santiago | 1 |



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 5104785

MW-1 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st Street NW - Stanwood, WA
Collected: 07/15/2007 15:52 by BN

Submitted: 07/17/2007 09:25
Reported: 07/26/2007 at 11:19
Discard: 08/26/2007

271S1

Account Number: 11260

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583



Analysis Report

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

Lancaster Laboratories Sample No. WW 5104786

MW-2 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st Street NW - Stanwood, WA
 Collected: 07/15/2007 14:50 by BN

Account Number: 11260

Submitted: 07/17/2007 09:25
 Reported: 07/26/2007 at 11:19
 Discard: 08/26/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271S2

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--|------------|--------------------|------------------------------------|-------|-----------------|
| 02159 | BTEX, MTBE | | | | | |
| 02161 | Benzene | 71-43-2 | 13. | 5.0 | ug/l | 10 |
| 02164 | Toluene | 108-88-3 | N.D. | 5.0 | ug/l | 10 |
| 02166 | Ethylbenzene | 100-41-4 | N.D. | 5.0 | ug/l | 10 |
| 02171 | Total Xylenes | 1330-20-7 | N.D. | 15. | ug/l | 10 |
| 02172 | Methyl tert-Butyl Ether | 1634-04-4 | N.D. | 25. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | 7,800. | 840. | ug/l | 10 |
| 02096 | Heavy Range Organics | n.a. | N.D. | 1,000. | ug/l | 10 |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 500. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |

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 |
|---------|--------------------------------|------------------------------|--------|------------------------|--------------------|-----------------|
| 02159 | BTEX, MTBE | SW-846 8021B | 1 | 07/18/2007 15:22 | Martha L Seidel | 10 |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | ECY 97-602 NWTPH-Dx modified | 1 | 07/23/2007 15:39 | Heather E Williams | 10 |
| 08274 | TPH by NWTPH-Gx waters | ECY 97-602 NWTPH-Gx modified | 1 | 07/18/2007 15:22 | Martha L Seidel | 10 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/18/2007 15:22 | Martha L Seidel | 10 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH-Dx 06/97 | 1 | 07/20/2007 09:15 | Olivia I Santiago | 1 |



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 5104786

MW-2 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st Street NW - Stanwood, WA
Collected: 07/15/2007 14:50 by BN

Submitted: 07/17/2007 09:25
Reported: 07/26/2007 at 11:19
Discard: 08/26/2007

271S2

Account Number: 11260

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Lancaster Laboratories Sample No. WW 5104787

MW-3 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st Street NW - Stanwood, WA
 Collected: 07/15/2007 15:21 by BN

Account Number: 11260

Submitted: 07/17/2007 09:25
 Reported: 07/26/2007 at 11:19
 Discard: 08/26/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271S3

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--|------------|--------------------|------------------------------------|-------|-----------------|
| 02159 | BTEX, MTBE | | | | | |
| 02161 | Benzene | 71-43-2 | N.D. | 5.0 | ug/l | 10 |
| 02164 | Toluene | 108-88-3 | N.D. | 5.0 | ug/l | 10 |
| 02166 | Ethylbenzene | 100-41-4 | N.D. | 5.0 | ug/l | 10 |
| 02171 | Total Xylenes | 1330-20-7 | N.D. | 15. | ug/l | 10 |
| 02172 | Methyl tert-Butyl Ether | 1634-04-4 | N.D. | 25. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | 250. | 84. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | 150. | 100. | ug/l | 1 |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 500. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |

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 | Analysis | | Analyst | Dilution Factor |
|---------|--------------------------------|------------------------------|----------|------------------|--------------------|-----------------|
| | | | Trial# | Date and Time | | |
| 02159 | BTEX, MTBE | SW-846 8021B | 1 | 07/18/2007 15:44 | Martha L Seidel | 10 |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | ECY 97-602 NWTPH-Dx modified | 1 | 07/23/2007 22:29 | Heather E Williams | 1 |
| 08274 | TPH by NWTPH-Gx waters | ECY 97-602 NWTPH-Gx modified | 1 | 07/18/2007 15:44 | Martha L Seidel | 10 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/18/2007 15:44 | Martha L Seidel | 10 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH-Dx 06/97 | 1 | 07/20/2007 09:15 | Olivia I Santiago | 1 |



Analysis Report

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Lancaster Laboratories Sample No. WW 5104787

MW-3 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st Street NW - Stanwood, WA
Collected: 07/15/2007 15:21 by BN

Submitted: 07/17/2007 09:25
Reported: 07/26/2007 at 11:19
Discard: 08/26/2007

271S3

Account Number: 11260

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583



Analysis Report

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Lancaster Laboratories Sample No. WW 5104788

MW-4 Grab Water Sample
 Facility# 305192 Job# 387100
 9816 271st Street NW - Stanwood, WA
 Collected: 07/15/2007 16:27 by BN

Account Number: 11260

Submitted: 07/17/2007 09:25
 Reported: 07/26/2007 at 11:19
 Discard: 08/26/2007

Chevron
 6001 Bollinger Canyon Road
 L4310
 San Ramon CA 94583

271S4

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---------|--|------------|--------------------|------------------------------------|-------|-----------------|
| 02159 | BTEX, MTBE | | | | | |
| 02161 | Benzene | 71-43-2 | N.D. | 5.0 | ug/l | 10 |
| 02164 | Toluene | 108-88-3 | N.D. | 5.0 | ug/l | 10 |
| 02166 | Ethylbenzene | 100-41-4 | N.D. | 5.0 | ug/l | 10 |
| 02171 | Total Xylenes | 1330-20-7 | N.D. | 15. | ug/l | 10 |
| 02172 | Methyl tert-Butyl Ether | 1634-04-4 | N.D. | 25. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | 850. | 82. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | 320. | 100. | ug/l | 1 |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 500. | ug/l | 10 |
| | Due to excessive foaming of the sample, normal reporting limits were not attained. | | | | | |

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 |
|---------|--------------------------------|------------------------------|--------|------------------------|--------------------|-----------------|
| 02159 | BTEX, MTBE | SW-846 8021B | 1 | 07/18/2007 16:06 | Martha L Seidel | 10 |
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | ECY 97-602 NWTPH-Dx modified | 1 | 07/23/2007 22:48 | Heather E Williams | 1 |
| 08274 | TPH by NWTPH-Gx waters | ECY 97-602 NWTPH-Gx modified | 1 | 07/18/2007 16:06 | Martha L Seidel | 10 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 07/18/2007 16:06 | Martha L Seidel | 10 |
| 02135 | Extraction - DRO Water Special | ECY 97-602 NWTPH-Dx 06/97 | 1 | 07/20/2007 09:15 | Olivia I Santiago | 1 |



Analysis Report

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Lancaster Laboratories Sample No. WW 5104788

MW-4 Grab Water Sample
Facility# 305192 Job# 387100
9816 271st Street NW - Stanwood, WA
Collected: 07/15/2007 16:27 by BN

Submitted: 07/17/2007 09:25
Reported: 07/26/2007 at 11:19
Discard: 08/26/2007

271S4

Account Number: 11260

Chevron
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

Quality Control Summary

 Client Name: Chevron
 Reported: 07/26/07 at 11:19 AM

Group Number: 1047175

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

Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--------------------------|-----------------------------------|-----------|--------------|----------|-----------|-----------------|-----|---------|
| Batch number: 07199A53A | Sample number(s): 5104784-5104788 | | | | | | | |
| TPH by NWTPH-Gx waters | N.D. | 50. | ug/l | 105 | 101 | 75-135 | 4 | 30 |
| Benzene | N.D. | 0.5 | ug/l | 97 | 97 | 86-119 | 0 | 30 |
| Toluene | N.D. | 0.5 | ug/l | 102 | 104 | 82-119 | 2 | 30 |
| Ethylbenzene | N.D. | 0.5 | ug/l | 104 | 107 | 81-119 | 2 | 30 |
| Total Xylenes | N.D. | 1.5 | ug/l | 107 | 109 | 82-120 | 2 | 30 |
| Methyl tert-Butyl Ether | N.D. | 2.5 | ug/l | 105 | 106 | 82-124 | 1 | 30 |
| Batch number: 072010000A | Sample number(s): 5104785-5104788 | | | | | | | |
| Diesel Range Organics | N.D. | 80. | ug/l | 80 | | 61-106 | | |
| Heavy Range Organics | N.D. | 100. | ug/l | | | | | |

Sample Matrix Quality Control

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

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|--------------------------|---|----------|---------------|-----|---------|----------|----------|----------|-------------|
| Batch number: 07199A53A | Sample number(s): 5104784-5104788 UNSPK: P104795, P104796 | | | | | | | | |
| TPH by NWTPH-Gx waters | 116 | | 63-154 | | | | | | |
| Benzene | (2) | | 78-131 | | | | | | |
| Toluene | 120 | | 78-129 | | | | | | |
| Ethylbenzene | 121 | | 75-133 | | | | | | |
| Total Xylenes | 122 | | 84-131 | | | | | | |
| Methyl tert-Butyl Ether | 112 | | 70-134 | | | | | | |
| Batch number: 072010000A | Sample number(s): 5104785-5104788 BKG: P106135 | | | | | | | | |
| Diesel Range Organics | | | | | | N.D. | N.D. | 0 (1) | 20 |
| Heavy Range Organics | | | | | | N.D. | 1,600. | 200* (1) | 20 |

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 | Batch number | Trifluorotoluene-P | Trifluorotoluene-F |
|---------------|--------------|--------------------|--------------------|
| BTEX, MTBE | 07199A53A | | |
| | | 89 | 85 |
| | | 91 | 85 |

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 07/26/07 at 11:19 AM

Group Number: 1047175

Surrogate Quality Control

| | | |
|---------|----|----|
| 5104786 | 91 | 84 |
| 5104787 | 90 | 85 |
| 5104788 | 91 | 84 |
| Blank | 88 | 86 |
| LCS | 91 | 77 |
| LCSD | 91 | 77 |
| MS | 96 | 76 |

Limits: 69-129 63-135

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 072010000A
Orthoterphenyl

| | |
|---------|-----|
| 5104785 | 98 |
| 5104786 | 126 |
| 5104787 | 96 |
| 5104788 | 95 |
| Blank | 93 |
| LCS | 107 |

Limits: 50-150

*- Outside of specification

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

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 <u>limit of quantitation</u> , 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 quantitated 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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