FIT 2.3.1 Release # 583079
Seattle Housing
Seattle
UST # 583072

# GETTLER-RYAN INC.

## TRANSMITTAL

February 2, 2004
G-R #386750

TO: Ms. Romy Freier-Coppinger
SAIC
18706 North Creek Parkway, Suite 110
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**
**#209335**
**1225 North 45th Street**
**Seattle, Washington**
Seattle Housing Authority

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DATED | DESCRIPTION |
|---|---|---|
| 1 | January 28, 2004 | Groundwater Monitoring and Sampling Report<br>**Event of March 4, 2003**<br>**Event of June 3, 2003**<br>**Event of October 27, 2003**<br>**And Monthly Site Visits** |

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***February 13, 2004***, at which time the final report will be distributed to the following:

cc: Mr. Brett Hunter, Chevron Products Company, P.O. Box 6004, San Ramon, CA 94583
Mr. John Wietfeld, WDOE Northwest Region, 3190 160th Avenue S.E., Bellevue, WA 98008
Mr. Larry Hard, Seattle Housing Authority, 120 Sixth Avenue North, Seattle, WA 98109-5003

☐ Current Site Check List included.

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Enclosure


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3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317
1364 N. McDowell Blvd., Suite B2 • **Petaluma**, CA 94954 • (707) 789-3255 • Fax (707) 789-3218

RELEASE # 583079

# GETTLER-RYAN INC.

January 28, 2004
Job #386750

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

**RE: Event of March 4, 2003**
**Event of June 3, 2003**
**Event of October 27, 2003**
**And Monthly Site Visits**
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #209335
1225 North 45th Street
Seattle, Washington

Dear Mr. Hunter:

This report documents the monthly site visits and groundwater monitoring and sampling events 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 present in three wells (MW-2, MW-4 and MW-5). Static water level data and groundwater elevations are presented in Table 1. Separate Phase Hydrocarbon Thickness/Removal Data is presented in Table 2. Potentiometric Maps are included as Figures 1, 2 and 3.

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

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

Sincerely,

Deanna L. Harding
Project Coordinator

Hagop Kevork
Professional Engineer

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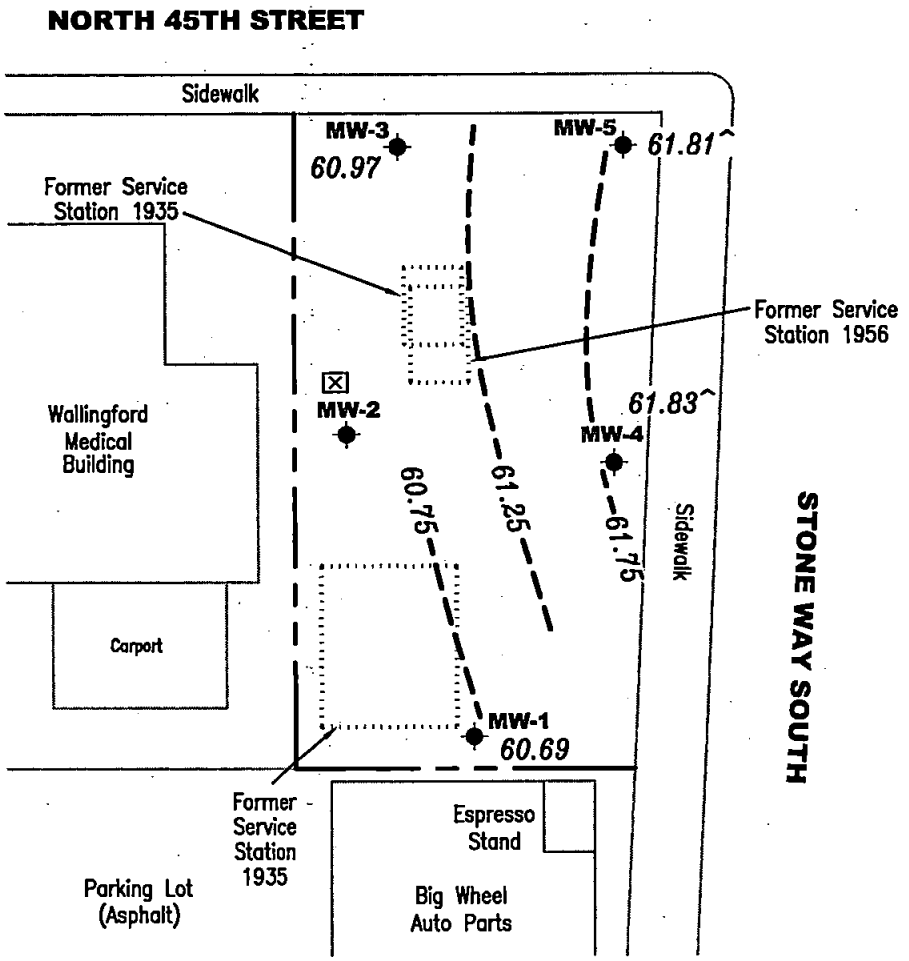
| | |
|---|---|
| Figure 1: | Potentiometric Map - March 4, 2003 |
| Figure 2: | Potentiometric Map - June 3, 2003 |
| Figure 3: | Potentiometric Map - October 27, 2003 |
| Table 1: | Groundwater Monitoring Data and Analytical Results |
| Table 2: | Separate Phase Hydrocarbon Thickness/Removal Data |
| 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 an arbitrary datum
- 99.99 — Groundwater elevation contour, dashed where inferred.
- ^ — Groundwater elevation corrected for the presence of SPH
- ☒ — Inaccessible

Approximate groundwater flow direction at a gradient of 0.02 to 0.03 Ft./Ft.

N

0 30

Scale in Feet

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

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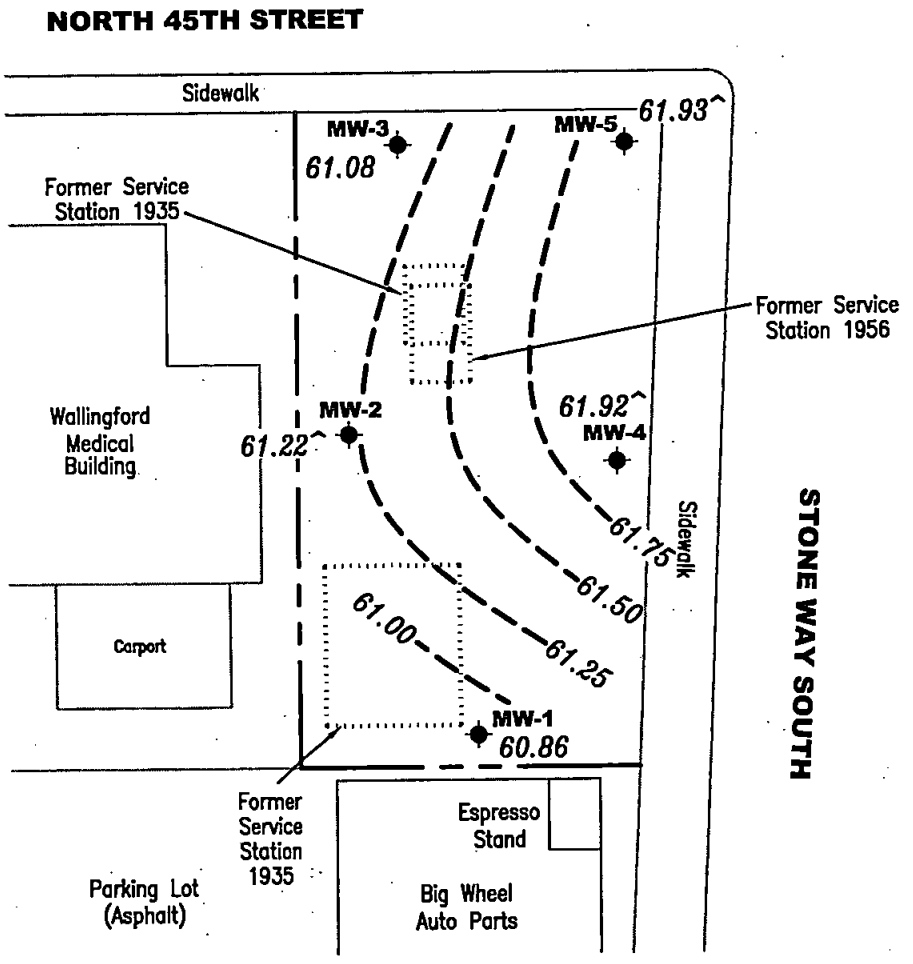
**POTENTIOMETRIC MAP**
Former Chevron Service Station #209335
1225 North 45th Street
Seattle, Washington

FIGURE 1

| PROJECT NUMBER | REVIEWED BY | DATE | REVISED DATE |
|---|---|---|---|
| 386750 | | March 4, 2003 | |

FILE NAME: P:\ENVIRO\CHEVRON\209335\Q03-209335.DWG | Layout Tab: Pot1




## EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to an arbitrary datum
- 99.99 — Groundwater elevation contour, dashed where inferred.
- ^ — Groundwater elevation corrected for the presence of separate-phase hydrocarbons

Approximate groundwater flow direction at a gradient of 0.02 Ft./Ft.

N

0 30

Scale in Feet

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

GETTLER - RYAN INC.
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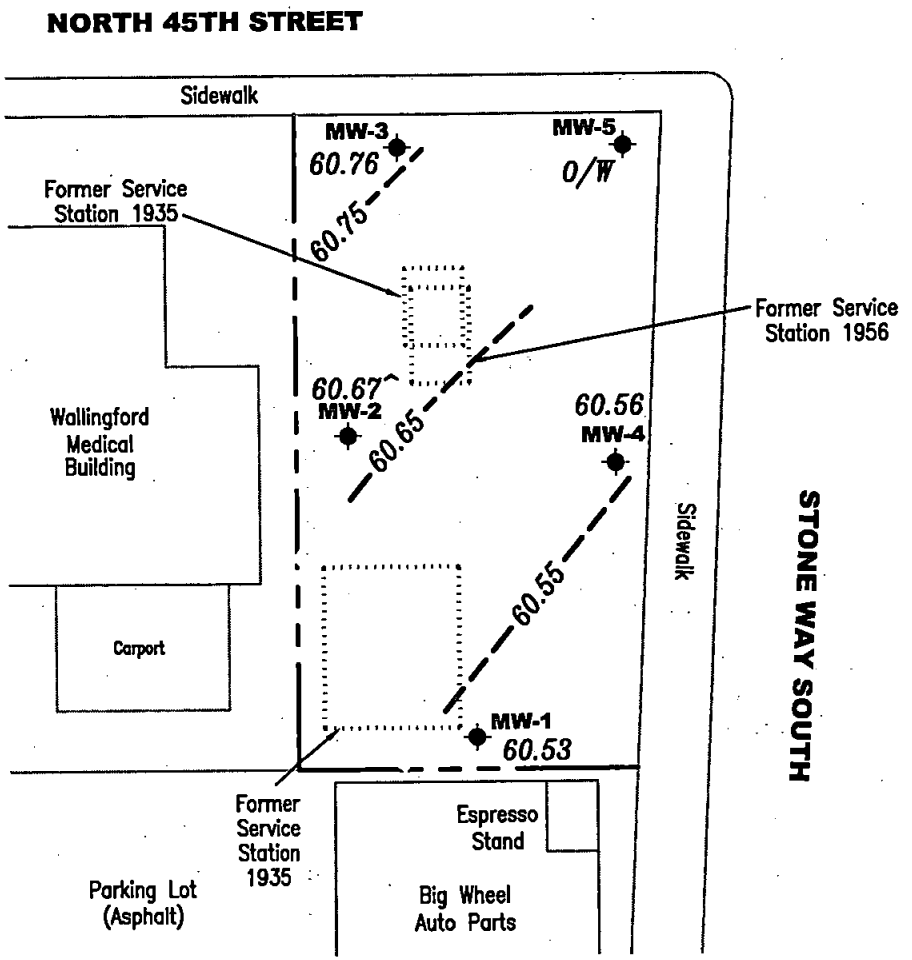
Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**
Former Chevron Service Station #209335
1225 North 45th Street
Seattle, Washington

FIGURE 2

| PROJECT NUMBER | REVIEWED BY | DATE | REVISED DATE |
|---|---|---|---|
| 386750 | | June 3, 2003 | |

FILE NAME: P:\ENVIRO\CHEVRON\209335\Q03-209335.DWG | Layout Tab: Pot2




## EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to an arbitrary site datum
- 99.99 — Groundwater elevation contour, dashed where inferred
- ^ — Groundwater elevation corrected for the presence of separate-phase hydrocarbons
- 0/W — Obstruction in Well

Approximate groundwater flow direction at a gradient of 0.003 Ft./Ft.

N

0 30

Scale in Feet

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

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**POTENTIOMETRIC MAP**
Former Chevron Service Station #209335
1225 North 45th Street
Seattle, Washington

FIGURE 3

| PROJECT NUMBER | REVIEWED BY | DATE | REVISED DATE |
|---|---|---|---|
| 386750 | | October 27, 2003 | |

FILE NAME: P:\ENVIRO\CHEVRON\209335\Q03-209335.DWG | Layout Tab: Pot3

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

| WELL ID/ TOC* (ft.) | | DATE | DTP (ft.) | DTW (ft.) | SPHT (ft.) | GWE (ft.) | TPH-D (ppb) | TPH-O (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | D. Lead (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-1** | | | | | | | | | | | | | | | |
| 97.95 | | 10/11/00[1] | -- | 34.50 | -- | 63.45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/16/00 | -- | 35.91 | 0.00 | 62.04 | ND[2,3] | ND[2,3] | 74.4 | ND | ND | ND | ND | ND | ND[4] |
| | | 03/26/01 | -- | 36.54 | 0.00 | 61.41 | ND[3] | ND[3] | ND | ND | ND | ND | ND | ND | -- |
| | | 06/25/01 | -- | 36.78 | 0.00 | 61.17 | <281[3] | <842[3] | <50.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | | 09/24/01 | -- | 37.14 | 0.00 | 60.81 | <250[3,8] | <500[3,8] | <50.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | | 12/13/01 | -- | 37.25 | 0.00 | 60.70 | <250[3] | <500[3] | <80.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | NP | 03/08/02 | -- | 36.79 | 0.00 | 61.16 | <250[3] | <750[3] | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | | 05/29/02 | -- | 36.44 | 0.00 | 61.51 | SAMPLED SEMI-ANNUALLY | | | -- | -- | -- | -- | -- | -- |
| | NP | 09/16/02 | -- | 36.71 | 0.00 | 61.24 | <250[3] | <250[3] | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | | 12/05/02 | -- | 37.09 | 0.00 | 60.86 | SAMPLED SEMI-ANNUALLY | | | -- | -- | -- | -- | -- | -- |
| | **NP** | **03/04/03** | **--** | **37.26** | **0.00** | **60.69** | **<250[3]** | **<250[3]** | **100** | **<0.50** | **<0.50** | **<0.50** | **<3.0** | **--** | **--** |
| | ✓ | **06/03/03** | **--** | **37.09** | **0.00** | **60.86** | **SAMPLED SEMI-ANNUALLY** | | | **--** | **--** | **--** | **--** | **--** | **--** |
| | ✓ | **10/27/03** | **--** | **37.42** | **0.00** | **60.53** | **NOT SAMPLED DUE TO INSUFFICIENT WATER** | | | | | **--** | **--** | **--** | **--** |
| **MW-2** | | | | | | | | | | | | | | | |
| 98.70 | | 10/11/00[1] | -- | 34.50 | -- | 64.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/16/00 | -- | 36.46 | 0.00 | 62.24 | 1,000[3] | ND[3] | 28,100 | 283 | 2,560 | 693 | 4,020 | ND[2] | 0.00194[4] |
| | | 03/26/01 | -- | 37.12 | 0.00 | 61.58 | 1,180[3,5] | ND[3] | 17,000 | 143 | 1,450 | 378 | 2,180 | [2]ND/ND[6] | -- |
| | | 06/25/01 | -- | 37.37 | 0.00 | 61.33 | 418[3,5] | <750[3] | 11,700 | 92.3 | 547 | 181 | 1,010 | -- | -- |
| | | 09/24/01 | -- | 37.72 | 0.00 | 60.98 | 4,840[3,7,8] | <557[3,8] | 22,100 | 120 | 1,380 | 658 | 4,100 | -- | -- |
| | | 12/13/01 | -- | 37.89 | 0.00 | 60.81 | 5,540[3,5] | <500[3] | 84,000 | 185 | 3,960 | 1,590 | 9,950 | -- | -- |
| | | 03/08/02 | 37.24 | 38.00 | 0.76 | 61.31*** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | -- | -- | -- | -- | -- |
| | | 05/29/02 | 36.81 | 37.54 | 0.73 | 61.74*** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | -- | -- | -- | -- | -- |
| | | 09/16/02 | 37.19 | 37.61 | 0.42 | 61.43*** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | -- | -- | -- | -- | -- |
| | | 10/15/02 | 37.24 | 37.68 | 0.44 | 61.37*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 11/22/02 | 37.12 | 37.63 | 0.51 | 61.48*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/05/02 | 37.51 | 38.10 | 0.59 | 61.07*** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | -- | -- | -- | -- | -- |
| | | **01/28/03** | **36.77** | **37.33** | **0.56** | **61.82*** ** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |
| | | **02/13/03** | **37.44** | **38.02** | **0.58** | **61.14*** ** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |
| | | **03/04/03** | **INACCESSIBLE - VEHICLE PARKED OVER WELL** | | | | | **--** | **--** | **--** | **--** | **--** | **--** | **--** | **--** |

# Table 1

**Groundwater Monitoring Data and Analytical Results**
Former Chevron Service Station # 209335
1225 North 45th Street
Seattle, Washington

| WELL ID/ TOC*(ft.) | | DATE | DTP (ft.) | DTW (ft.) | SPHT (ft.) | GWE (ft.) | TPH-D (ppb) | TPH-O (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | D. Lead (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-2 | | 04/21/03 | 37.21 | 37.78 | 0.57 | 61.38*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont) | | 05/08/03 | 37.43 | 37.94 | 0.51 | 61.17*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 06/03/03 | 37.37 | 37.91 | 0.54 | 61.22*** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- |
| | | 07/06/03 | 36.96 | 37.51 | 0.55 | 61.63*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 08/18/03 | 37.49 | 38.02 | 0.53 | 61.10*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/27/03 | 37.54 | 39.98 | 2.44 | 60.67** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- |
| | | 11/17/03 | 37.10 | 37.58 | 0.48 | 61.50** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/31/03 | 36.18 | 38.19 | 2.01 | 62.12** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-3** | | | | | | | | | | | | | | | |
| 98.76 | | 10/11/00[1] | -- | 34.00 | -- | 64.76 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/16/00 | -- | 36.39 | 0.00 | 62.37 | ND[3] | ND[3] | ND | ND | 0.612 | ND | 1.95 | ND | ND[4] |
| | | 03/26/01 | -- | 37.05 | 0.00 | 61.71 | ND[3] | ND[3] | ND | ND | ND | ND | ND | ND | -- |
| | | 06/25/01 | -- | 37.29 | 0.00 | 61.47 | <250[3] | <750[3] | <50.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | | 09/24/01 | -- | 37.64 | 0.00 | 61.12 | <250[3,8] | <500[3,8] | <50.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | | 12/13/01 | -- | 37.78 | 0.00 | 60.98 | <250[3] | <500[3] | <80.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | NP | 03/08/02 | -- | 37.28 | 0.00 | 61.48 | <250[3] | <750[3] | 320 | <0.50 | 0.64 | 2.1 | 15 | -- | -- |
| | | 05/29/02 | -- | 36.92 | 0.00 | 61.84 | SAMPLED SEMI-ANNUALLY | | | -- | -- | -- | -- | -- | -- |
| | NP | 09/16/02 | -- | 37.21 | 0.00 | 61.55 | <250[3] | <250[3] | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | | 12/05/02 | -- | 37.58 | 0.00 | 61.18 | SAMPLED SEMI-ANNUALLY | | | -- | -- | -- | -- | -- | -- |
| | **NP** | **03/04/03** | **--** | **37.79** | **0.00** | **60.97** | **<250[3]** | **<250[3]** | **<50** | **<0.50** | **<0.50** | **<0.50** | **<1.5** | **--** | **--** |
| | | **06/03/03** | **--** | **37.68** | **0.00** | **61.08** | **SAMPLED SEMI-ANNUALLY** | | | **--** | **--** | **--** | **--** | **--** | **--** |
| | **NP** | **10/27/03** | **--** | **38.00** | **0.00** | **60.76** | **<250[3]** | **<250[3]** | **<50** | **<0.5** | **<0.5** | **<0.5** | **<1.5** | **--** | **--** |
| **MW-4** | | | | | | | | | | | | | | | |
| 98.52 | | 10/11/00[1] | -- | 35.00 | -- | 63.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/16/00 | -- | 36.35 | 0.00 | 62.17 | ND[2,3] | ND[2,3] | 58,200 | 326 | 5,520 | 1,430 | 8,520 | ND[2] | 0.0123[4] |
| | | 03/26/01 | -- | 37.00 | 0.00 | 61.52 | 266[3,5] | ND[3] | 27,200 | 178 | 2,160 | 785 | 4,160 | [2]ND/ND[6] | -- |
| | | 06/25/01 | -- | 37.25 | 0.00 | 61.27 | <250[3] | <750[3] | 12,300 | 69.0 | 654 | 416 | 1,910 | -- | -- |
| | | 09/24/01 | -- | 37.60 | 0.00 | 60.92 | <250[3,8] | <500[3,8] | 4,130 | 30.1 | 154 | 197 | 684 | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335
1225 North 45th Street
Seattle, Washington

| WELL ID/ TOC* (ft.) | | DATE | DTP (ft.) | DTW (ft.) | SPHT (ft.) | GWE (ft.) | TPH-D (ppb) | TPH-O (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | D. Lead (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-4 | | 12/13/01 | -- | 37.72 | 0.00 | 60.80 | <250[3] | <500[3] | 5,490 | 30.3 | 175 | 177 | 679 | -- | -- |
| (cont) | NP | 03/08/02 | -- | 38.36 | 0.00 | 60.16 | <250[3] | <750[3] | 9,000 | <50 | 150 | 170 | 710 | -- | -- |
| | NP | 05/29/02 | -- | 36.86 | 0.00 | 61.66 | <250[3] | <750[3] | 6,700 | 22 | 150 | 190 | 780 | -- | -- |
| | | 08/07/02 | -- | 36.92 | 0.00 | 61.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | NP | 09/16/02 | -- | 37.16 | 0.00 | 61.36 | <250[3] | <250[3] | 7,500 | 46 | 230 | 240 | 630 | -- | -- |
| | NP | 12/05/02 | -- | 37.53 | 0.00 | 60.99 | <250[3] | <250[3] | 14,000 | 73 | 400 | 540 | 1,500 | -- | -- |
| | | **03/04/03** | **36.68** | **36.71** | **0.03** | **61.83*** NOT SAMPLED DUE TO THE PRESENCE OF SPH** | | | | | | -- | -- | -- | -- |
| | | **06/03/03** | **36.59** | **36.63** | **0.04** | **61.92*** NOT SAMPLED DUE TO THE PRESENCE OF SPH** | | | | | | -- | -- | -- | -- |
| | | **07/06/03** | **36.90** | **36.93** | **0.03** | **61.61*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **08/18/03** | **36.76** | **36.80** | **0.04** | **61.75*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | **NP** | **10/27/03** | **--** | **37.96** | **0.00** | **60.56** | **<400[3]** | **<500[3]** | **2,200** | **16** | **55** | **76** | **170** | -- | -- |
| | | **11/17/03** | **36.34** | **36.37** | **0.03** | **62.17**** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **12/31/03** | **--** | **36.88** | **0.00** | **61.64** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **MW-5** | | | | | | | | | | | | | | | |
| 99.42 | | 10/11/00[1] | -- | 34.50 | -- | 64.92 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/16/00 | -- | 37.18 | 0.00 | 62.24 | 5,080[3] | ND[3] | 146,000 | ND[2] | 15,100 | 4,160 | 24,100 | ND[2] | 0.0200[4] |
| | | 03/26/01 | -- | 37.91 | 0.00 | 61.51 | 77,900[3,5] | ND[3] | 149,000 | 256 | 10,600 | 4,000 | 24,200 | [2]ND/ND[6] | -- |
| | | 06/25/01 | -- | 38.14 | 0.00 | 61.28 | 109,000[3] | <18,100[3] | 127,000 | 210 | 9,580 | 3,730 | 21,500 | -- | -- |
| | | 09/24/01 | 38.40 | 38.44 | 0.04 | 61.01*** NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- | -- |
| | | 12/13/01 | 38.55 | 38.59 | 0.04 | 60.86*** NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- | -- |
| | | 03/08/02 | 37.96 | 38.46 | 0.50 | 61.36*** NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- | -- |
| | | 05/29/02 | 37.60 | 38.05 | 0.45 | 61.73*** NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- | -- |
| | | 08/07/02 | 37.73 | 38.12 | 0.39 | 61.61*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 09/16/02 | 38.00 | 38.39 | 0.39 | 61.34*** NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- | -- |
| | | 10/15/02 | 38.09 | 38.47 | 0.38 | 61.25*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 11/22/02 | 37.84 | 38.26 | 0.42 | 61.50*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/05/02 | 38.42 | 38.78 | 0.36 | 60.93*** NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- | -- |
| | | **01/28/03** | **37.88** | **38.24** | **0.36** | **61.47*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **02/13/03** | **38.33** | **38.68** | **0.35** | **61.02*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | **03/04/03** | **37.54** | **37.89** | **0.35** | **61.81*** NOT SAMPLED DUE TO THE PRESENCE OF SPH** | | | | | | -- | -- | -- | -- |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335
1225 North 45th Street
Seattle, Washington

| WELL ID/ TOC*(ft.) | DATE | DTP (ft.) | DTW (ft.) | SPHT (ft.) | GWE (ft.) | TPH-D (ppb) | TPH-O (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | D. Lead (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-5 | 04/21/03 | 37.96 | 38.29 | 0.33 | 61.39*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| (cont) | 05/08/03 | 38.50 | 38.82 | 0.32 | 60.86*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 06/03/03 | 37.42 | 37.76 | 0.34 | 61.93*** | NOT SAMPLED DUE TO THE PRESENCE OF SPH | | | | | -- | -- | -- | -- |
| | 07/06/03 | 37.77 | 38.11 | 0.34 | 61.58*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 08/18/03 | 38.54 | 38.86 | 0.32 | 60.82*** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 10/27/03 | WELL OBSTRUCTED | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/17/03 | 37.87 | 38.17 | 0.30 | 61.49** | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | 12/31/03 | WELL OBSTRUCTED AT 35.92 FEET | | | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| **Trip Blank** | | | | | | | | | | | | | | |
| TB-LB | 12/16/00 | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND | -- |
| | 03/26/01 | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | ND | ND | -- |
| | 06/25/01 | -- | -- | -- | -- | -- | -- | <50.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 09/24/01 | -- | -- | -- | -- | -- | -- | <50.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 12/13/01 | -- | -- | -- | -- | -- | -- | <80.0 | <0.500 | <0.500 | <0.500 | <1.00 | -- | -- |
| | 03/08/02 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | 05/29/02 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | 09/16/02 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | 12/05/02 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | 03/04/03 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.5 | -- | -- |
| | 10/27/03 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <1.5 | -- | -- |

| | TPH-D | TPH-O | TPH-G | B | T | E | X | MTBE | D. Lead |
|---|---|---|---|---|---|---|---|---|---|
| Standard Laboratory Reporting Limits: | 250 | 250 | 50 | 0.5 | 0.5 | 0.5 | 1.5 | -- | 0.00100 |
| MTCA 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 8021 | | | | | | EPA 6020 |

# Table 1

## Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station # 209335

1225 North 45th Street

Seattle, Washington

**EXPLANATIONS:**

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

TOC = Top of Casing
(ft.) = Feet
DTP = Depth to Product
DTW = Depth to Water
GWE = Groundwater Elevation
SPH = Separate Phase Hydrocarbon
SPHT = Separate Phase Hydrocarbon Thickness
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
(ppm) = Parts per million
ND = Not Detected
NP = No Purge
-- = Not Measured/Not Analyzed
MTCA = Model Toxics Control Act Cleanup Regulations [WAC 173-340-720(2)(a)(I), as amended 02/01].

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

** GWE has been corrected for the presence of SPH; correction factor = [(TOC - DTW) + (SPHT x 0.80)]

*** GWE has been corrected for the presence of SPH; correction factor = [(TOC - DTP - SPHT) + (SPHT x 0.80)]; Historical data has been altered to correct error in original reporting of depth to product as depth to water.

1 Data provided by Delta Environmental Consultants, Inc.

2 Detection limit raised. Refer to analytical reports.

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

4 Filtered at the laboratory.

5 Laboratory report indicates results in the diesel organics range are primarily due to overlap from a gasoline range product.

6 MTBE by EPA Method 8260.

7 Laboratory report indicates the sample chromatographic pattern does not resemble the fuel standard used for quantitation.

8 Laboratory report indicates the sample was prepared outside of the method established holding time.

# Table 2

## Separate Phase Hydrocarbon Thickness/Removal Data

Former Chevron Service Station #209335

1225 North 45th Street

Seattle, Washington

| WELL ID | DATE | DTP (ft.) | DTW (ft.) | SPH THICKNESS (ft.) | AMOUNT BAILED (SPH + WATER) (gallons) |
|---|---|---|---|---|---|
| MW-2 | 03/08/02 | 37.24 | 38.00 | 0.76 | 2.00 |
| | 05/29/02 | 36.81 | 37.54 | 0.73 | 2.00 |
| | 09/16/02 | 37.19 | 37.61 | 0.42 | 2.00 |
| | 10/15/02 | 37.24 | 37.68 | 0.44 | 2.00 |
| | 11/22/02 | 37.12 | 37.63 | 0.51 | 2.00 |
| | 12/05/02 | 37.51 | 38.10 | 0.59 | 2.00 |
| | **01/28/03** | **36.77** | **37.33** | **0.56** | **2.00** |
| | **02/13/03** | **37.44** | **38.02** | **0.58** | **2.00** |
| | **03/04/03** | **INACCESSIBLE - VEHICLE PARKED OVER WELL** | | | **--** |
| | **04/21/03** | **37.21** | **37.78** | **0.57** | **2.00** |
| | **05/08/03** | **37.43** | **37.94** | **0.51** | **2.00** |
| | **06/03/03** | **37.37** | **37.91** | **0.54** | **2.00** |
| | **07/06/03** | **36.96** | **37.51** | **0.55** | **2.00** |
| | **08/18/03** | **37.49** | **38.02** | **0.53** | **2.00** |
| | **10/27/03** | **37.54** | **39.98** | **2.44** | **2.00** |
| | **11/17/03** | **37.10** | **37.58** | **0.48** | **2.00** |
| | **12/31/03** | **36.18** | **38.19** | **2.01** | **2.00** |
| MW-4 | **03/04/03** | **36.68** | **36.71** | **0.03** | **0.33** |
| | **06/03/03** | **36.59** | **36.63** | **0.04** | **0.33** |
| | **07/06/03** | **36.90** | **36.93** | **0.03** | **0.33** |
| | **08/18/03** | **36.76** | **36.80** | **0.04** | **0.33** |
| | **10/27/03** | **--** | **37.96** | **0.00** | **0.00** |
| | **11/17/03** | **36.34** | **36.37** | **0.03** | **0.33** |
| | **12/31/03** | **--** | **36.88** | **0.00** | **0.00** |
| MW-5 | 09/24/01 | 38.40 | 38.44 | 0.04 | 0.00 |
| | 12/13/01 | 38.55 | 38.59 | 0.04 | 0.00 |
| | 03/08/02 | 37.96 | 38.46 | 0.50 | 2.00 |
| | 05/29/02 | 37.60 | 38.05 | 0.45 | 2.00 |
| | 08/07/02 | 37.73 | 38.12 | 0.39 | 2.00 |
| | 09/16/02 | 38.00 | 38.39 | 0.39 | 2.00 |
| | 10/15/02 | 38.09 | 38.47 | 0.38 | 2.00 |
| | 11/22/02 | 37.84 | 38.26 | 0.42 | 2.00 |
| | 12/05/02 | 38.42 | 38.78 | 0.36 | 2.00 |
| | **01/28/03** | **37.88** | **38.24** | **0.36** | **2.00** |
| | **02/13/03** | **38.33** | **38.68** | **0.35** | **2.00** |
| | **03/04/03** | **37.54** | **37.89** | **0.35** | **2.00** |
| | **04/21/03** | **37.96** | **38.29** | **0.33** | **2.00** |
| | **05/08/03** | **38.50** | **38.82** | **0.32** | **2.00** |
| | **06/03/03** | **37.42** | **37.76** | **0.34** | **2.00** |
| | **07/06/03** | **37.77** | **38.11** | **0.34** | **2.00** |

# Table 2

## Separate Phase Hydrocarbon Thickness/Removal Data

Former Chevron Service Station #209335

1225 North 45th Street

Seattle, Washington

| WELL ID | DATE | DTP (ft.) | DTW (ft.) | SPH THICKNESS (ft.) | AMOUNT BAILED (SPH + WATER) (gallons) |
|---|---|---|---|---|---|
| MW-5 | 08/18/03 | 38.54 | 38.86 | 0.32 | 2.00 |
| (cont) | 10/27/03 | WELL OBSTRUCTED | | -- | -- |
| | 11/17/03 | 37.87 | 38.17 | 0.30 | 2.00 |
| | 12/31/03 | WELL OBSTRUCTED AT 35.92 FEET | | -- | -- |

# Table 2

## Separate Phase Hydrocarbon Thickness/Removal Data

Former Chevron Service Station #209335

1225 North 45th Street

Seattle, Washington

**EXPLANATIONS:**

DTP = Depth to Product

DTW = Depth to Water

(ft.) = Feet

SPH = Separate Phase Hydrocarbons

Note: Historical data has been altered to correct error in original reporting of depth to product as depth to water.

# STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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

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

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

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

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

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

*FORMER CHEVRON SERVICE STATION #209335*
*Seattle, Washington*

*MONTHLY SITE VISITS OF*
*JANUARY 28, 2003*
*FEBRUARY 13, 2003*
*APRIL 21, 2003*
*MAY 8, 2003*
*JULY 6, 2003*
*AUGUST 18, 2003*
*NOVEMBER 17, 2003*
*DECEMBER 31, 2003*

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 1-28-03
City: Seattle, Washington Sampler: BWN

Well ID MW- 2 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: .56 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 36.77 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: bailed .5PH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 1-28-03
City: Seattle, Washington Sampler: BWN

Well ID MW-5 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: .36 ft. Amount Bailed (product/water): 2 gal.
Total Depth 39.21 ft.
Depth to Water 37.88 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
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| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: bailed 5PH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 2-13-03
City: Seattle, Washington Sampler: BWN

Well ID MW- 2 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: .58 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 37.44 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:

**Sampling Equipment:**
- Disposable Bailer:
- Pressure Bailer:
- Discrete Bailer:
- Other:

Start Time (purge): _____ Weather Conditions: Sunny
Sample Time/Date: / Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (u mhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 2-13-03
City: Seattle, Washington Sampler: BWN

Well ID MW-5 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: .35 ft. Amount Bailed (product/water): 2 gal.
Total Depth 39.21 ft.
Depth to Water 38.33 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: _____

**Sampling Equipment:**
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other: _____

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (u mhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal.

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 4-21-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-2 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .57 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 37.21 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:

**Sampling Equipment:** Disposable Bailer; Pressure Bailer; Discrete Bailer; Other:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor:
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Chevron #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 4-21-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW- 5 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: 33 ft. Amount Bailed (product/water): 2 gal.
Total Depth 39.21 ft.
Depth to Water 37.96 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: _____

**Sampling Equipment:**
- Disposable Bailer: _____
- Pressure Bailer: _____
- Discrete Bailer: _____
- Other: _____

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 5-8-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-2 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .51 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 37.43 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 _____ **Sampling Equipment:** Disposable Bailer _____
Stainless Steel Bailer _____ Pressure Bailer _____
Stack Pump _____ Discrete Bailer _____
Suction Pump _____ Other: _____
Grundfos _____
Other: _____

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (u mhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
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COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 5-8-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-5 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: ~~1.62~~ .32 ft. Amount Bailed (product/water): 2 ~~1.62~~ gal.
Total Depth ~~41.62~~ ft. 39.21
Depth to Water ~~37.43~~ ft. 38.50

| 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:

**Sampling Equipment:**
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (u mhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed w 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 7-6-03 (inclusive)
City: Seattle, WA Sampler: Ben Newton

Well ID MW-2 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .55 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 36.96 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:

**Sampling Equipment:** Disposable Bailer, Pressure Bailer, Discrete Bailer, Other:

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
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LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
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COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 7-6 03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-4 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .03 ft. Amount Bailed (product/water): .33 gal.
Total Depth 41.60 ft.
Depth to Water 36.90 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µmhos/cm) | Temperature (C/F) | D.O. (mg/L) | ORP (mV) |
|---|---|---|---|---|---|---|
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LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
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COMMENTS: Bailed ~.33 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750

Site Address: 1225 N. 45th Street Event Date: 7-6-03 (inclusive)

City: Seattle, WA Sampler: BWN

Well ID MW-5 Well Condition: OK

Well Diameter 2 in. Hydrocarbon Thickness: .34 ft. Amount Bailed (product/water): 2 gal.

Total Depth 39.21 ft.

Depth to Water 37.77 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:

**Sampling Equipment:**
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: / Water Color: _____ Odor: _____

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) |
|---|---|---|---|---|---|---|
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 8-18-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-2 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: .53 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 37.49 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
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**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 8-18-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-4 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .04 ft. Amount Bailed (product/water): .33 gal.
Total Depth 41.60 ft.
Depth to Water 36.76 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ .33 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45th Street Event Date: 8-18-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-5 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: .32 ft. Amount Bailed (product/water): 2 gal.
Total Depth 39.21 ft.
Depth to Water 38.54 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
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**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 11-17-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-2 Date Monitored: 11-17-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 41.62 ft.
Depth to Water 37.58 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:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (2400 hrs)
Depth to Product: 37.10 ft
Depth to Water: 37.58 ft
Hydrocarbon Thickness: .48 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: 2 gal
Product Transferred to: Overpak

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / ____ Water Color: ____ Odor: ____
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) |
|---|---|---|---|---|---|---|
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**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
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| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 11-17-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-4 Date Monitored: 11-17-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 41.60 ft.
Depth to Water 36.37 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:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (2400 hrs)
Depth to Product: 36.34 ft
Depth to Water: 36.37 ft
Hydrocarbon Thickness: .03 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ____ gal
Amt Removed from Well: .33 gal
Product Transferred to: Overpack

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / ____ Water Color: ____ Odor: ____
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) |
|---|---|---|---|---|---|---|
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**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
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| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ .33 gal SPH

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 11-17-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-5 Date Monitored: _____ Well Condition: ok
Well Diameter 2 in.
Total Depth 39.21 ft.
Depth to Water 38.17 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: _____

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

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: 37.87 ft
Depth to Water: 38.17 ft
Hydrocarbon Thickness: .30 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: 3 gal
Product Transferred to: Overpack

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
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**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
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COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 12-31-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-2 Date Monitored: 12/31/03 Well Condition: ok
Well Diameter 2 in.
Total Depth 41.62 ft.
Depth to Water 38.19 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 V
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Other:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: 36.18 ft
Depth to Water: 38.19 ft
Hydrocarbon Thickness: 2.01 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: 2 gal
Product Transferred to: Overpack

Start Time (purge): _____ Weather Conditions: Rain
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
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**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 12-31-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-4 Date Monitored: 12-31-03 Well Condition: OK
Well Diameter 2 in.
Total Depth 41.60 ft.
Depth to Water 36.88 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:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (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
Product Transferred to:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor:
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
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| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Monitoring Only

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 12-31-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW- 5 Date Monitored: 12-31-03 Well Condition: ~~[illegible]~~ Obstructed
Well Diameter 2 in.
Total Depth 35.92 ft.
Depth to Water — 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:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (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
Product Transferred to:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor:
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX |
| MW- | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Well obstructed at 35.92 ft next event fish out obstructio

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# *FORMER CHEVRON SERVICE STATION #209335*
## *Seattle, Washington*

## *MONITORING & SAMPLING*
## *EVENT OF MARCH 4, 2003*

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 3-4-03
City: Seattle, Washington Sampler: BWN

Well ID MW- 1 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 38.35 ft.
Depth to Water 37.26 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:

**Sampling Equipment:** Disposable Bailer ✓ / Pressure Bailer / Discrete Bailer / Other:

Start Time (purge): 900 Weather Conditions: Sunny
Sample Time/Date: 915 / Water Color: Odor:
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
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| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- 1 | 3 x voa vial | YES | HCL | LL | TPH-G/BTEX/MTBE |
| MW-1 | 2 amber L | YES | HCL | LL | TPH(D) w/ SG |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: No Purge

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 3-4-03
City: Seattle, Washington Sampler: BWN

Well ID MW-2 Well Condition: U.T.A.
Well Diameter 2 in. Hydrocarbon Thickness: ft. Amount Bailed (product/water): gal.
Total Depth 41.62 ft.
Depth to Water 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:

**Sampling Equipment:** Disposable Bailer, Pressure Bailer, Discrete Bailer, Other:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor:
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Unable to access, SHA truck parked over well

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 3-4-03
City: Seattle, Washington Sampler: BWN

Well ID MW-3 Well Condition: o.k.
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 41.69 ft.
Depth to Water 37.79 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: ___

**Sampling Equipment:** Disposable Bailer √ / Pressure Bailer ___ / Discrete Bailer ___ / Other: ___

Start Time (purge): 930 Weather Conditions: Sunny
Sample Time/Date: 945 / 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) |
|---|---|---|---|---|---|---|
| | | | | | | |
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-3 | 3 x voa vial | YES | HCL | CL | TPH-G/BTEX/MTBE |
| MW-3 | 2 amber L | YES | HCL | CL | TPH(D) x w/sg. |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: No Purge

Add/Replaced Lock: ___ Add/Replaced Plug: ___ Size: ___

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 3-4-03
City: Seattle, Washington Sampler: BWN

Well ID MW-4 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: .03 ft. Amount Bailed (product/water): .33 gal.
Total Depth 41.60 ft.
Depth to Water 36.68 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:

**Sampling Equipment:**
- Disposable Bailer ✓
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): ____ Weather Conditions: Sunny
Sample Time/Date: 1 Water Color: ____ Odor: ____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ .33 gal sph

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 3-4-03
City: Seattle, Washington Sampler: BWN

Well ID MW-5 Well Condition: O.K.
Well Diameter 2 in. Hydrocarbon Thickness: .35 ft. Amount Bailed (product/water): 2 gal.
Total Depth 39.21 ft.
Depth to Water 37.54 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:

**Sampling Equipment:**
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor:
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
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### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | | TPH-G/BTEX/MTBE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal sph

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

# Chevron Northwest Region Analysis Request/

Lancaster Laboratories
*Where quality is a science.*

For Lancaster Laboratories use only
Acct. #: 11260 Sample #: 401082A-26 SCR#: 844613

Facility #: SS#209335 G-R#386750
Site Address: 1225 N. 45th Street, SEATTLE, WA
Chevron PM: BH Lead Consultant: SAICLB
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: Ben W. Newton
Service Order #: ☐ Non SAR:

**Preservative Codes**
H = HCl T = Thiosulfate
N = $HNO_3$ B = NaOH
S = $H_2SO_4$ O = Other

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

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

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Matrix: Soil | Water | Oil ☐ Air ☐ | Total Number of Containers | Analyses Requested: BTEX + ~~MTBE~~ 8021 ☒ 8260 ☐ Naphth ☐ per G.H. 3/13 | 8260 full scan | Oxygenates | TPH G | TPH D ☒ Extended Rng. ☒ Silica Gel Cleanup | Lead Total ☐ Diss. ☐ Method ____ | VPH/EPH | NWTPH H HCID ☐ quantification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Preservation Codes: H | | | H | H | | | |
| TB-LB | 3-4-03 | - | X | | | X | | 2 | X | | | X | | | | |
| MW-1 | | 915 | X | | | X | | 5 | X | | | X | X | | | |
| MW-3 | | 945 | X | | | X | | 5 | X | | | X | X | | | |

**Comments / Remarks**

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

**Data Package Options** (please circle if required)
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 |
|---|---|---|---|---|---|
| Ben Newton | 3-12-03 | 1200 | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |
| Relinquished by Commercial Carrier: UPS FedEx Other | | | Received by: Kathy Binkley | 3-13-03 | 0915 |
| Temperature Upon Receipt 4°, 2.5°, c 3°, 4.5°, 2.5° | | | Custody Seals Intact? Yes No | | |



Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

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

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Road
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 844613. Samples arrived at the laboratory on Thursday, March 13, 2003. The PO# for this group is 99011184 and the release number is HUNTER.

| Client Description | Lancaster Labs Number |
|---|---|
| TB-LB Water Sample | 4010824 |
| MW-1 Grab Water Sample | 4010825 |
| MW-3 Grab Water Sample | 4010826 |

| | | |
|---|---|---|
| 1 COPY TO | SAIC | Attn: Ms. Deanna Harding |
| ELECTRONIC | Gettler-Ryan | Attn: Cheryl Hansen |
| COPY TO | | |

Lancaster Laboratories

# Analysis Report

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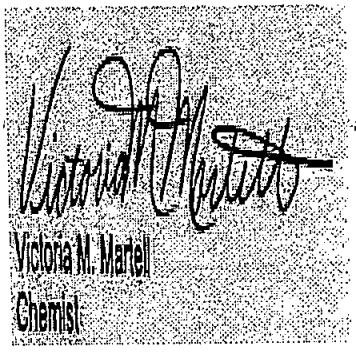
Questions? Contact your Client Services Representative
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,



Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4010824**

Collected:03/04/2003 00:00

Submitted: 03/13/2003 09:15
Reported: 03/25/2003 at 11:14
Discard: 04/25/2003
TB-LB Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street; Seattle, WA

Account Number: 11260

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08213 | BTEX (8021) | | | | | |
| 00776 | Benzene | 71-43-2 | N.D. | 0.50 | ug/l | 1 |
| 00777 | Toluene | 108-88-3 | N.D. | 0.50 | ug/l | 1 |
| 00778 | Ethylbenzene | 100-41-4 | N.D. | 0.50 | ug/l | 1 |
| 00779 | Total Xylenes | 1330-20-7 | N.D. | 1.5 | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 50. | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08213 | BTEX (8021) | SW-846 8021B | 1 | 03/17/2003 07:16 | Linda C Pape | 1 |
| 08274 | TPH by NWTPH-Gx waters | TPH by NWTPH-Gx - 8015B Mod. | 1 | 03/17/2003 07:16 | Linda C Pape | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/17/2003 07:16 | Linda C Pape | n.a. |

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4010825**

Collected:03/04/2003 09:15 by BN

Account Number: 11260

Submitted: 03/13/2003 09:15
Reported: 03/25/2003 at 11:15
Discard: 04/25/2003
MW-1 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street; Seattle, WA

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45TH1

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | N.D. | 250. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | N.D. | 250. | ug/l | 1 |
| | Site-specific QC samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08213 | BTEX (8021) | | | | | |
| 00776 | Benzene | 71-43-2 | N.D. | 0.50 | ug/l | 1 |
| 00777 | Toluene | 108-88-3 | N.D. | 0.50 | ug/l | 1 |
| 00778 | Ethylbenzene | 100-41-4 | N.D. | 0.50 | ug/l | 1 |
| 00779 | Total Xylenes | 1330-20-7 | N.D. # | 3.0 | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| | Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for total xylenes. The presence or concentration of this compound cannot be determined due to the presence of this interferent. | | | | | |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | 100. | 50. | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | NWTPH-Dx, ECY 97-602(modified) | 1 | 03/20/2003 07:18 | Devin M Hetrick | 1 |
| 08213 | BTEX (8021) | SW-846 8021B | 1 | 03/17/2003 19:57 | Melissa D Mann | 1 |
| 08274 | TPH by NWTPH-Gx waters | TPH by NWTPH-Gx - 8015B Mod. | 1 | 03/17/2003 19:57 | Melissa D Mann | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/17/2003 19:57 | Melissa D Mann | n.a. |
| 07003 | Extraction - DRO (Waters) | NWTPH-Dx, ECY 97-602, 6/97 | 1 | 03/14/2003 17:00 | JoElla L Rice | 1 |

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4010825**

Collected:03/04/2003 09:15 by BN

Submitted: 03/13/2003 09:15
Reported: 03/25/2003 at 11:15
Discard: 04/25/2003
MW-1 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street; Seattle, WA

45TH1

Account Number: 11260

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4010826**

Collected: 03/04/2003 09:45 by BN

Account Number: 11260

Submitted: 03/13/2003 09:15
Reported: 03/25/2003 at 11:15
Discard: 04/25/2003
MW-3 Grab Water Sample
Facility# 209335 Job# 386750
1225 N. 45th Street; Seattle, WA

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

45TH3

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | N.D. | 250. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | N.D. | 250. | ug/l | 1 |
| | Site-specific QC samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08213 | BTEX (8021) | | | | | |
| 00776 | Benzene | 71-43-2 | N.D. | 0.50 | ug/l | 1 |
| 00777 | Toluene | 108-88-3 | N.D. | 0.50 | ug/l | 1 |
| 00778 | Ethylbenzene | 100-41-4 | N.D. | 0.50 | ug/l | 1 |
| 00779 | Total Xylenes | 1330-20-7 | N.D. | 1.5 | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 50. | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | NWTPH-Dx, ECY 97-602(modified) | 1 | 03/20/2003 07:43 | Devin M Hetrick | 1 |
| 08213 | BTEX (8021) | SW-846 8021B | 1 | 03/17/2003 20:30 | Melissa D Mann | 1 |
| 08274 | TPH by NWTPH-Gx waters | TPH by NWTPH-Gx - 8015B Mod. | 1 | 03/17/2003 20:30 | Melissa D Mann | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 03/17/2003 20:30 | Melissa D Mann | n.a. |
| 07003 | Extraction - DRO (Waters) | NWTPH-Dx, ECY 97-602, 6/97 | 1 | 03/14/2003 17:00 | JoElla L Rice | 1 |

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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# Analysis Report



## Quality Control Summary

Client Name: ChevronTexaco
Reported: 03/25/03 at 11:15 AM

Group Number: 844613

### Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: 030730014A | Sample number(s): 4010825-4010826 | | | | | | | |
| Diesel Range Organics | N.D. | .08 | mg/l | 91 | 80 | 55-126 | 13 | 20 |
| Heavy Range Organics | N.D. | .1 | mg/l | | | | | |
| Batch number: 03073A55B | Sample number(s): 4010824-4010826 | | | | | | | |
| Benzene | N.D. | .2 | ug/l | 97 | 103 | 80-118 | 5 | 30 |
| Toluene | N.D. | .2 | ug/l | 103 | 107 | 82-119 | 4 | 30 |
| Ethylbenzene | N.D. | .2 | ug/l | 104 | 108 | 81-119 | 4 | 30 |
| Total Xylenes | N.D. | .6 | ug/l | 104 | 109 | 82-120 | 4 | 30 |
| TPH by NWTPH-Gx waters | N.D. | .048 | mg/l | 100 | 103 | 70-130 | 3 | 30 |

### Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 03073A55B | Sample number(s): 4010824-4010826 | | | | | | | | |
| Benzene | 90 | | 67-136 | | | | | | |
| Toluene | 97 | | 78-129 | | | | | | |
| Ethylbenzene | 107 | | 75-133 | | | | | | |
| Total Xylenes | 107 | | 78-130 | | | | | | |
| TPH by NWTPH-Gx waters | 99 | | 70-130 | | | | | | |

### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 030730014A

| | Orthoterphenyl |
|---|---|
| 4010825 | 105 |
| 4010826 | 88 |
| Blank | 97 |
| LCS | 132 |
| LCSD | 119 |
| Limits: | 50-150 |

Analysis Name: TPH by NWTPH-Gx waters
Batch number: 03073A55B

| | Trifluorotoluene-P | Trifluorotoluene-F |
|---|---|---|
| 4010824 | 112 | 98 |
| 4010825 | 112 | 96 |
| 4010826 | 111 | 98 |
| Blank | 113 | 99 |
| LCS | 112 | 102 |
| LCSD | 111 | 102 |
| MS | 105 | 95 |

*- 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

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# Analysis Report



## Quality Control Summary

Client Name: ChevronTexaco
Reported: 03/25/03 at 11:15 AM

Group Number: 844613

### Surrogate Quality Control

| | | |
|---|---|---|
| Limits: | 66-136 | 57-146 |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# Explanation of Symbols and Abbreviations

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

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

**<** 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

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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

*U.S. EPA CLP Data Qualifiers:*

**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 |
| **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 sample 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.

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

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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# *FORMER CHEVRON SERVICE STATION #209335*

## *Seattle, Washington*

## *MONITORING & SAMPLING EVENT OF JUNE 3, 2003*

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 6-3-03
City: Seattle, Washington Sampler: BWN

Well ID MW-1 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.
Total Depth 38.35 ft.
Depth to Water 37.09 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | Lancaster | TPH-G/BTEX |
| MW | Amber 2 | " | " | " | TPH(D) x w/SG |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Monitoring Only

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 6-3-03
City: Seattle, Washington Sampler: BWN

Well ID MW-2 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .54 ft. Amount Bailed (product/water): 2 gal.
Total Depth 41.62 ft.
Depth to Water 37.37 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x 40a vial | YES | HCL | Lancaster | TPH-G/BTEX |
| MW | Amber 1L | ↓ | ↓ | ↓ | TPH(D) x w/SG |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ 2 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 6-3-03
City: Seattle, Washington Sampler: BWN

Well ID MW-3 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: Ø ft. Amount Bailed (product/water): Ø gal.
Total Depth 41.69 ft.
Depth to Water 37.68 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | Lancaster | TPH-G/BTEX |
| MW | Amber x | " | " | " | TPHCDJ x w/SG |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Monitoring Only

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 6-3-03
City: Seattle, Washington Sampler: BWN

Well ID MW-4 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: .04 ft. Amount Bailed (product/water): ~~1004~~ .33 gal.
Total Depth 41.60 ft.
Depth to Water 36.59 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | x voa vial | YES | HCL | Lancaster | TPH-G/BTEX |
| MW | Amber 1 | ↓ | ↓ | ↓ | TPH(D) w/SG |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed ~ .33 gal SPH

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING
## FIELD DATA SHEET

Client/Facility #: Former Chevron #209335 Job Number: 386750
Site Address: 1225 North 45th street Event Date: 6-3-03
City: Seattle, Washington Sampler: BWN

Well ID MW-5 Well Condition: ok
Well Diameter 2 in. Hydrocarbon Thickness: .34 ft. Amount Bailed (product/water): 2 gal.
Total Depth 39.21 ft.
Depth to Water 37.42 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: _____

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

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW- | 40a vial | YES | HCL | Lancaster | TPH-G/BTEX |
| MW | Amber 1L | ↓ | ↓ | ↓ | TPHCDJ x w/SG |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed w 2 gal SPH

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

# *FORMER CHEVRON SERVICE STATION #209335*

## *Seattle, Washington*

## *MONITORING & SAMPLING EVENT OF OCTOBER 27, 2003*

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 10-27-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-1 Date Monitored: 10/27/03 Well Condition: OK
Well Diameter 2 in.
Total Depth 38.40 ft.
Depth to Water 37.42 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:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (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
Product Transferred to:

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / ____ Water Color: ____ Odor: ____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| - | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| - | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Insufficient water to sample

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 10-27-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-2 Date Monitored: 10/27/03 Well Condition: OK
Well Diameter 2 in.
Total Depth 41.62 ft.
Depth to Water 39.98 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:

**Sampling Equipment:**
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: _____ (2400 hrs)
Time Bailed: _____ (2400 hrs)
Depth to Product: 37.54 ft
Depth to Water: 39.98 ft
Hydrocarbon Thickness: 2.44 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ gal
Amt Removed from Well: 2 gal
Product Transferred to: Overpack

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: / Water Color: _____ Odor: _____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| - | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| - | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Bailed w 2 gal SPH

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

39.98
2.44

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 10-27-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-3 Date Monitored: 10/27/03 Well Condition: OK
Well Diameter 2 in.
Total Depth 41.65 ft.
Depth to Water 38.00 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:

**Sampling Equipment:**
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: (2400 hrs)
Time Bailed: (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
Product Transferred to:

Start Time (purge): 900 Weather Conditions: Sunny
Sample Time/Date: 915 / 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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

### LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-3 | 3 x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW-3 | 2 x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: NP

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

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 10-27-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-4 Date Monitored: 10/27/03 Well Condition: OK
Well Diameter 2 in.
Total Depth 41.60 ft.
Depth to Water 37.90 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:

**Sampling Equipment:**
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (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
Product Transferred to: ____

Start Time (purge): 930 Weather Conditions: Sunny
Sample Time/Date: 945 / Water Color: gray Odor: Slight
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| MW-4 | 3 x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| MW-4 | 2 x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: NP

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #209335 Job Number: 386750
Site Address: 1225 N. 45Th Street Event Date: 10-27-03 (inclusive)
City: Seattle, WA Sampler: BWN

Well ID MW-5 Date Monitored: 10/27/03 Well Condition: Possible obstruction
Well Diameter 2 in.
Total Depth 35.92 ft.
Depth to Water DRY 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:

**Sampling Equipment:**
Disposable Bailer
Pressure Bailer
Discrete Bailer
Other:

Time Started: ____ (2400 hrs)
Time Bailed: ____ (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
Product Transferred to: ____

Start Time (purge): ____ Weather Conditions: ____
Sample Time/Date: ____ / Water Color: ____ Odor: ____
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) |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**LABORATORY INFORMATION**

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|---|---|---|---|---|---|
| - | x voa vial | YES | HCL | LANCASTER | TPH-G/BTEX/MTBE |
| - | x amber | YES | HCL | LANCASTER | TPH-Dx w/sg |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: Possible obstruction in well

Add/Replaced Lock: ____ Add/Replaced Plug: ____ Size: ____

# Chevron Northwest Region Analysis Request/Chain of Custody

**Lancaster Laboratories**
*Where quality is a science.*

For Lancaster Laboratories use only
Acct. #: 11260 Sample #: 415327-1-73 SCR#: 872120

Facility #: SS#209335 G-R#386750
Site Address: 1225 N. 45th Street, SEATTLE, WA
Chevron PM: BH Lead Consultant: SAICLB
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: Ben Newton
Service Order #: ☐ Non SAR:

| Sample Identification | Date Collected | Time Collected | Grab | Composite | Matrix: Soil | Matrix: Water (☐ Potable ☐ NPDES) | Matrix: Oil ☐ Air ☐ | Total Number of Containers | Analyses Requested: Preservation Codes | BTEX + MTBE 8021 ☐ 8260 ☐ Naphth ☐ | 8260 full scan | Oxygenates | TPH G + BTEX 8021 | TPH D (☐ Extended Rng. ☒ Silica Gel Cleanup) | Lead Total ☐ Diss. ☐ Method | VPH/EPH | NWTPH H HCID ☐ quantification |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QA | 10-27-03 | — | X | | | X | | 2 | | | | | X | | | | |
| MW 3 | ↓ | 915 | X | | | X | | 5 | | | | | X | X | | | |
| MW 4 | ↓ | 945 | X | | | X | | 6 | | | | | X | X | | | |

**Preservative Codes**
H = HCl T = Thiosulfate
N = $HNO_3$ B = NaOH
S = $H_2SO_4$ O = Other

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

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

**Comments / Remarks**

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

**Data Package Options** (please circle if required)
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 |
|---|---|---|---|---|---|
| Ben Newton | 10-28-03 | 1200 | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |
| Relinquished by: | Date | Time | Received by: | Date | Time |
| | | | | | |
| Relinquished by Commercial Carrier: UPS (FedEx) Other | | | Received by: Kathy Birkley | Date 10-29-03 | Time 0915 |
| Temperature Upon Receipt 4.5, 2.° C° 3.° | | | Custody Seals Intact? (Yes) No | | |

Lancaster Laboratories

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# Analysis Report

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Road
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 872720. Samples arrived at the laboratory on Wednesday, October 29, 2003. The PO# for this group is 99011184 and the release number is HUNTER.

| Client Description | Lancaster Labs Number |
|---|---|
| QA Water Sample | 4153271 |
| MW 3 Grab Water Sample | 4153272 |
| MW 4 Grab Water Sample | 4153273 |

| | | |
|---|---|---|
| ELECTRONIC COPY TO | Gettler Ryan | Attn: Michael Sharaeff |
| 1 COPY TO | SAIC | Attn: Ms. Deanna Harding |

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

Respectfully Submitted,

Valerie Tomayko
Senior Chemist

Lancaster Laboratories

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4153271**

**QA Water Sample**
**Facility# 209335 Job# 386750**
**1225 N. 45th Street; Seattle, WA**
Collected:10/27/2003 00:00

Submitted: 10/29/2003 09:15
Reported: 11/11/2003 at 12:34
Discard: 12/12/2003

Account Number: 11260

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 08213 | BTEX (8021) | | | | | |
| 00776 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 00777 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 00778 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 00779 | Total Xylenes | 1330-20-7 | N.D. | 1.5 | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 50. | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |

State of Washington Lab Certification No. C259

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Analysis Trial# | Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 08213 | BTEX (8021) | SW-846 8021B | 1 | 10/31/2003 06:17 | Martha L Seidel | 1 |
| 08274 | TPH by NWTPH-Gx waters | TPH by NWTPH-Gx - 8015B Mod. | 1 | 10/31/2003 06:17 | Martha L Seidel | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10/31/2003 06:17 | Martha L Seidel | n.a. |

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4153272**

**MW 3 Grab Water Sample**
**Facility# 209335 Job# 386750**
**1225 N. 45th Street; Seattle, WA**
Collected:10/27/2003 09:15 by BN

Account Number: 11260

Submitted: 10/29/2003 09:15
Reported: 11/11/2003 at 12:34
Discard: 12/12/2003

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

N45-3

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | N.D. | 250. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | N.D. | 250. | ug/l | 1 |
| 08213 | BTEX (8021) | | | | | |
| 00776 | Benzene | 71-43-2 | N.D. | 0.5 | ug/l | 1 |
| 00777 | Toluene | 108-88-3 | N.D. | 0.5 | ug/l | 1 |
| 00778 | Ethylbenzene | 100-41-4 | N.D. | 0.5 | ug/l | 1 |
| 00779 | Total Xylenes | 1330-20-7 | N.D. | 1.5 | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | N.D. | 50. | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |

State of Washington Lab Certification No. C259

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | NWTPH-Dx, ECY 97-602(modified) | 1 | 11/01/2003 12:53 | Devin M Hetrick | 1 |
| 08213 | BTEX (8021) | SW-846 8021B | 1 | 10/31/2003 14:24 | Martha L Seidel | 1 |
| 08274 | TPH by NWTPH-Gx waters | TPH by NWTPH-Gx - 8015B Mod. | 1 | 10/31/2003 14:24 | Martha L Seidel | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10/31/2003 14:24 | Martha L Seidel | n.a. |
| 07003 | Extraction - DRO (Waters) | NWTPH-Dx, ECY 97-602, 6/97 | 1 | 10/31/2003 02:55 | Deborah A Stasiak-Birkenbine | 1 |

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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# Analysis Report



**Lancaster Laboratories Sample No. WW 4153273**

**MW 4 Grab Water Sample**
**Facility# 209335 Job# 386750**
**1225 N. 45th Street; Seattle, WA**
Collected:10/27/2003 09:45 by BN

Account Number: 11260

Submitted: 10/29/2003 09:15
Reported: 11/11/2003 at 12:34
Discard: 12/12/2003

ChevronTexaco
6001 Bollinger Canyon Road
L4310
San Ramon CA 94583

N45-4

| CAT No. | Analysis Name | CAS Number | As Received Result | As Received Method Detection Limit | Units | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | | | | | |
| 02095 | Diesel Range Organics | n.a. | N.D. # | 400. | ug/l | 1 |
| 02096 | Heavy Range Organics | n.a. | N.D. # | 500. | ug/l | 1 |
| | Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly. | | | | | |
| 08213 | BTEX (8021) | | | | | |
| 00776 | Benzene | 71-43-2 | 16. | 0.5 | ug/l | 1 |
| 00777 | Toluene | 108-88-3 | 55. | 0.5 | ug/l | 1 |
| 00778 | Ethylbenzene | 100-41-4 | 76. | 0.5 | ug/l | 1 |
| 00779 | Total Xylenes | 1330-20-7 | 170. | 1.5 | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |
| 08274 | TPH by NWTPH-Gx waters | | | | | |
| 01648 | TPH by NWTPH-Gx waters | n.a. | 2,200. | 50. | ug/l | 1 |
| | A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level. | | | | | |

State of Washington Lab Certification No. C259

## Laboratory Chronicle

| CAT No. | Analysis Name | Method | Trial# | Analysis Date and Time | Analyst | Dilution Factor |
|---|---|---|---|---|---|---|
| 02211 | TPH by NWTPH-Dx(water) w/SiGel | NWTPH-Dx, ECY 97-602(modified) | 1 | 11/01/2003 13:17 | Devin M Hetrick | 1 |
| 08213 | BTEX (8021) | SW-846 8021B | 1 | 10/31/2003 14:59 | Martha L Seidel | 1 |
| 08274 | TPH by NWTPH-Gx waters | TPH by NWTPH-Gx - 8015B Mod. | 1 | 10/31/2003 14:59 | Martha L Seidel | 1 |
| 01146 | GC VOA Water Prep | SW-846 5030B | 1 | 10/31/2003 14:59 | Martha L Seidel | n.a. |
| 07003 | Extraction - DRO (Waters) | NWTPH-Dx, ECY 97-602, 6/97 | 1 | 10/31/2003 02:55 | Deborah A Stasiak-Birkenbine | 1 |

#=Laboratory MethodDetection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit

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# Analysis Report



## Quality Control Summary

Client Name: ChevronTexaco
Group Number: 872720
Reported: 11/11/03 at 12:34 PM

### Laboratory Compliance Quality Control

| Analysis Name | Blank Result | Blank MDL | Report Units | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---|---|---|---|---|---|---|---|---|
| Batch number: 033030012A | Sample number(s): 4153272-4153273 | | | | | | | |
| Diesel Range Organics | N.D. | 250. | ug/l | 66 | | 46-112 | | |
| Heavy Range Organics | N.D. | 250. | ug/l | | | | | |
| Batch number: 03303A56A | Sample number(s): 4153271-4153273 | | | | | | | |
| Benzene | N.D. | .5 | ug/l | 115 | 116 | 75-134 | 1 | 30 |
| Toluene | N.D. | .5 | ug/l | 115 | 115 | 82-119 | 0 | 30 |
| Ethylbenzene | N.D. | .5 | ug/l | 114 | 114 | 81-119 | 0 | 30 |
| Total Xylenes | N.D. | 1.5 | ug/l | 116 | 116 | 82-120 | 0 | 30 |
| TPH by NWTPH-Gx waters | N.D. | 50. | ug/l | 90 | 91 | 70-130 | 1 | 30 |

### Sample Matrix Quality Control

| Analysis Name | MS %REC | MSD %REC | MS/MSD Limits | RPD | RPD MAX | BKG Conc | DUP Conc | DUP RPD | Dup RPD Max |
|---|---|---|---|---|---|---|---|---|---|
| Batch number: 033030012A | Sample number(s): 4153272-4153273 | | | | | | | | |
| Diesel Range Organics | | | | | | N.D. | N.D. | 0 (1) | 20 |
| Heavy Range Organics | | | | | | N.D. | N.D. | 0 (1) | 20 |
| Batch number: 03303A56A | Sample number(s): 4153271-4153273 | | | | | | | | |
| Benzene | 112 | | 67-136 | | | | | | |
| Toluene | 111 | | 78-129 | | | | | | |
| Ethylbenzene | 115 | | 75-133 | | | | | | |
| Total Xylenes | 112 | | 78-130 | | | | | | |
| TPH by NWTPH-Gx waters | 103 | | 63-154 | | | | | | |

### Surrogate Quality Control

Analysis Name: TPH by NWTPH-Dx(water) w/SiGel
Batch number: 033030012A

| | Orthoterphenyl |
|---|---|
| 4153272 | 86 |
| 4153273 | 90 |
| Blank | 92 |
| LCS | 82 |
| Limits: | 50-150 |

Analysis Name: BTEX (8021)
Batch number: 03303A56A

| | Trifluorotoluene-P | Trifluorotoluene-F |
|---|---|---|
| 4153271 | 101 | 84 |
| 4153272 | 100 | 92 |
| 4153273 | 103 | 93 |
| Blank | 97 | 91 |
| LCS | 101 | 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: ChevronTexaco
Group Number: 872720
Reported: 11/11/03 at 12:34 PM

### Surrogate Quality Control

| | | |
|---|---|---|
| LCSD | 100 | 84 |
| MS | 100 | 94 |
| Limits: | 66-136 | 57-146 |

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

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

# 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 |
| **meq** | milliequivalents | **lb.** | pound(s) |
| **g** | gram(s) | **kg** | kilogram(s) |
| **ug** | microgram(s) | **mg** | milligram(s) |
| **ml** | milliliter(s) | **l** | liter(s) |
| **m3** | cubic meter(s) | **ul** | microliter(s) |

**<** 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

**J** estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).

**ppm** parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

**ppb** parts per billion

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

*U.S. EPA CLP Data Qualifiers:*

**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 |
| **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 sample 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.

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

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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