



**Groundwater  
& Environmental Services, Inc.**

CS1012

364 Littleton Road • Suite 4 • Westford, Massachusetts 01886 • (978) 392-0090 • Fax (978) 392-8583

**LETTER OF TRANSMITTAL**

TO: Mr. Peter Sullivan  
Rhode Island Department of Environmental Management  
235 Promenade Street  
Providence, Rhode Island 02908

DATE: June 20, 2007

REGARDING: Former Texaco Facility No. 100098  
2200 Pawtucket Avenue  
East Providence, Rhode Island

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D.E.M./O.M.H.  
2007 JUN 21 P 1:02

**ENCLOSED ARE:**

| # COPIES | DATED         | DESCRIPTION        |
|----------|---------------|--------------------|
| 1        | June 20, 2007 | Site Status Report |
|          |               |                    |
|          |               |                    |
|          |               |                    |
|          |               |                    |
|          |               |                    |
|          |               |                    |
|          |               |                    |

Transmitted For: ☐ Approval ☐ Use ☒ As Requested ☐ File

**COMMENTS:**

Quarterly Site Status Report report attached for RIDEM review and file.

**COPIES TO:**

cc: Shell File

Thomas Breckell - Colbea Enterprises

BY: 

Sarah J. Kokaram  
Staff Environmental Scientist

BY: 

Martin F. Hilfinger, P.G.  
Senior Project Manager

**MOTIVA ENTERPRISES LLC  
SITE STATUS REPORT**

|                                                                                                          |                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site:</b> Former Texaco Facility No. 100098<br>2200 Pawtucket Avenue<br>East Providence, Rhode Island | <b>Regulatory Agency:</b> RIDEM<br><b>Regulatory Contact:</b> Peter Sullivan<br><b>Case No.:</b> LS-1012<br><b>Consultant:</b> Groundwater & Environmental Services, Inc.<br><b>Project Manager/Geologist:</b> Martin F. Hilfinger, P.G./Sarah J. Kokaram |
| <b>Motiva Contact:</b> Jennifer Bothwell                                                                 |                                                                                                                                                                                                                                                           |

**Report Date:** June 20, 2007

**Current Site Status:** Shell branded retail gasoline station owned and operated by Colbea Enterprises LLC

**Monitoring Period:** April 2007 through June 2007

**Work Performed:**

- An Enhanced Fluid Recovery (EFR) event was performed on monitoring well MW-7 on March 27, 2007. Approximately 1440 gallons of groundwater was evacuated from the well. One groundwater sample was collected from MW-7 prior to and following the EFR event.
- Gauged and sampled four groundwater monitoring wells on April 19, 2007.

**Groundwater Monitoring:**

|                             |                                                |
|-----------------------------|------------------------------------------------|
| Groundwater Classification: | GB                                             |
| Number of Wells:            | 4                                              |
| Containing LPH:             | None                                           |
| Gauging Frequency:          | Quarterly for all wells                        |
| Sampling Frequency:         | Quarterly for all wells                        |
| Groundwater Depth:          | 4.33 feet bgs in MW-7 to 5.02 feet bgs in MW-6 |
| Groundwater Flow:           | Northwest                                      |
| Groundwater Gradient:       | 0.006 feet per foot                            |
| Maximum BTEX Concentration: | 13,529 µg/l (MW-7)                             |
| Maximum MTBE Concentration: | 1,410 µg/l (MW-7)                              |

**Potential Sensitive Receptors:**

- The East Providence Senior High School and East Providence Area Vocational Technical School adjoin the site to the north across Waterman Avenue.
- The Providence County Day School is located approximately 1,000 feet northeast of the subject property. Bright Futures – Early Learning Center (day care center) is located approximately 1,000 feet east of the subject property.
- The abutting residential dwelling to the west across Pawtucket Avenue contains a basement. Residential dwellings further west of the subject property (within 200') also contain basements.

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 2007 JUN 21 PM 1:02

**Remedial Activities:**

- An EFR was performed on monitoring well MW-7 on June 26, 2006. A total of 763 gallons of groundwater was evacuated from the well.
- An EFR event was performed on monitoring well MW-7 on July 13, 2006. One groundwater sample was collected from MW-7 prior to the EFR event. A total of 785 gallons of groundwater was evacuated from the well.
- An EFR event was performed on monitoring well MW-7 on October 27, 2006. A total of 987 gallons of groundwater was evacuated from the well.
- An EFR event was performed on monitoring well MW-7 on March 27, 2007. A total of 1,442 gallons of groundwater was evacuated from the well.

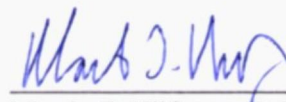
**Schedule of Next Groundwater Monitoring Event:** July 2007

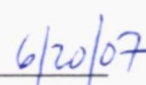
**Attachments:**

- Figure 1 – Groundwater Monitoring Map (April 19, 2007)
- Table 1 – Summary of Groundwater Monitoring Data
- Table 2 – Summary of EFR Events
- Copies of Laboratory Analytical Reports

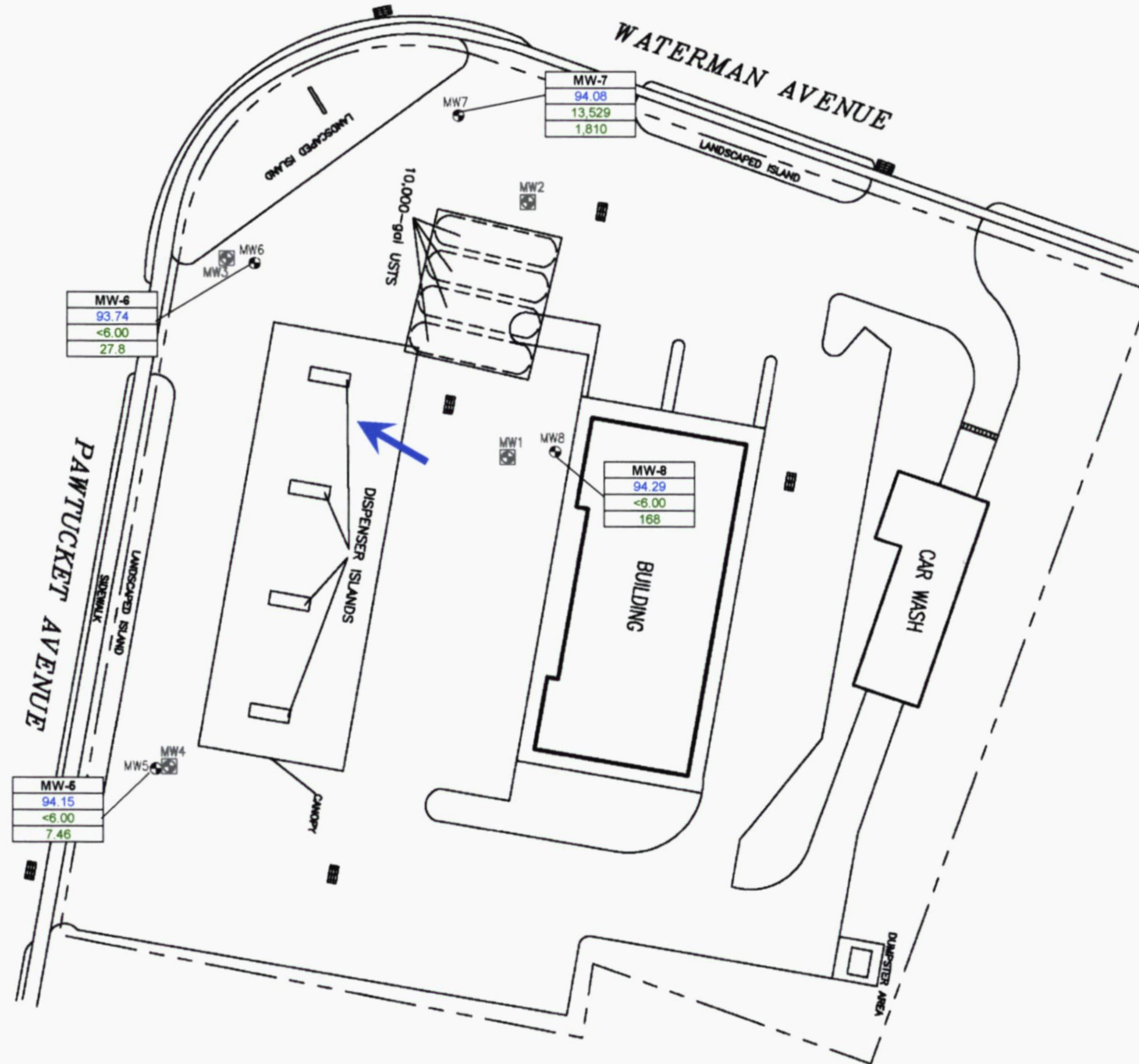
  
Sarah J. Kokaram  
Staff Environmental Scientist

  
Date

  
Martin F. Hilfinger, P.G.  
Senior Project Manager

  
Date





# LEGEND

- MONITORING WELL
- DESTROYED MONITORING WELL
- CATCH BASIN
- PRESUMED GROUNDWATER FLOW DIRECTION

| Sample ID         |
|-------------------|
| GW Elevation (ft) |
| Total BTEX (µg/L) |
| MTBE (µg/L)       |

|                            |                                                                                             |                  |             |
|----------------------------|---------------------------------------------------------------------------------------------|------------------|-------------|
| DRAFTED BY:<br>SBK         | GROUNDWATER MONITORING MAP<br>APRIL 19, 2007                                                |                  |             |
| CHECKED BY:<br><i>UMS</i>  | FORMER TEXACO FACILITY NO. 100098<br>2200 PAWTUCKET AVENUE<br>EAST PROVIDENCE, RHODE ISLAND |                  |             |
| REVIEWED BY:<br><i>MAA</i> | Groundwater & Environmental Services, Inc.<br>364 LITTLETON ROAD SUITE 4 WESTFORD, MA 01886 |                  |             |
| NORTH<br>                  | SCALE IN FEET<br>                                                                           | DATE<br>05/09/07 | FIGURE<br>1 |



**Table 1: Summary of Groundwater Monitoring Data**  
 Fomer Texaco Facility No. 100098  
 2200 Pawtucket Ave.  
 E. Providence, RI

| Monitoring Well   | Date       | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L)  | tert-Butyl Alcohol (µg/L) | Diisopropyl ether (µg/L) | Ethanol (µg/L) | ethyl tert-butyl ether (µg/L) | tert-amyl methyl ether (µg/L) |
|-------------------|------------|--------------------|---------------------|-------------------|-----------------------|----------------|----------------|---------------------|----------------------|-------------------|--------------|---------------------------|--------------------------|----------------|-------------------------------|-------------------------------|
| <b>RI - GB GW</b> |            |                    |                     |                   |                       | 140            | 1,700          | 1,600               | NA                   | NA                | 5,000        | NA                        | NA                       | NA             | NA                            | NA                            |
| MW-5              | 04/14/2006 | NA                 | 6.04                | NA                | ND                    | <1             | <1             | <1                  | <2                   | <5                | 289          | NS                        | NS                       | <100           | NA                            | NS                            |
|                   | 07/18/2006 | 98.56              | 5.95                | 92.61             | ND                    | 3              | <1             | <1                  | <2                   | 3                 | 6            | NS                        | NS                       | <100           | NA                            | NS                            |
|                   | 10/31/2006 | 98.56              | 5.81                | 92.75             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 24.7         | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 01/19/2007 | 98.56              | 6.14                | 92.42             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 693          | 231                       | <1.00                    | <100           | <1.00                         | 19.4                          |
|                   | 04/20/2007 | 98.56              | 4.41                | 94.15             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 7.46         | NS                        | NS                       | <100           | NS                            | NS                            |
| MW-6              | 04/14/2006 | NA                 | 6.07                | NA                | ND                    | 1              | <1             | <1                  | <2                   | 1                 | 59           | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 07/18/2006 | 98.76              | 5.41                | 93.35             | ND                    | <b>3,860</b>   | <b>2,880</b>   | 1,530               | 6,380                | 14,650            | 3,490        | S                         | S                        | <100           | NS                            | S                             |
|                   | 10/31/2006 | 98.76              | 5.57                | 93.19             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 9.62         | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 01/19/2007 | 98.76              | 6.11                | 92.65             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 22.4         | 94.5                      | <1.00                    | <100           | <1.00                         | <1.00                         |
|                   | 04/20/2007 | 98.76              | 5.02                | 93.74             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 27.8         | NS                        | NS                       | <100           | NS                            | NS                            |
| MW-7              | 04/14/2006 | NA                 | 5.84                | NA                | ND                    | <b>2,430</b>   | 186            | <b>1,680</b>        | 3,060                | 7,356             | <b>9,610</b> | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 06/26/2006 | NA                 | 5.65                | NA                | ND                    | NS             | NS             | NS                  | NS                   | NS                | NS           | NS                        | NS                       | NS             | NS                            | NS                            |
|                   | 07/13/2006 | NA                 | 5.05                | NA                | ND                    | <b>2,010</b>   | 511            | 1,240               | 3,860                | 7,621             | 930          | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 07/18/2006 | 98.41              | 5.22                | 93.19             | ND                    | 1              | <1             | <1                  | <2                   | 1                 | 16           | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 10/31/2006 | 98.41              | 4.87                | 93.54             | ND                    | <b>656</b>     | 512            | 1,170               | 3,520                | 5,858             | 1,290        | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 01/19/2007 | 98.41              | 5.30                | 93.11             | ND                    | <b>386</b>     | 44.6           | 1,080               | 1,370                | 2,881             | 2,900        | 5,780                     | <1.00                    | <100           | 6.17                          | 146                           |
|                   | 04/20/2007 | 98.41              | 4.33                | 94.08             | ND                    | <b>1,410</b>   | 719            | <b>2,680</b>        | 8,720                | 13,529            | 1,810        | NS                        | NS                       | <100           | NS                            | NS                            |
| MW-8              | 04/14/2006 | NA                 | 6.38                | NA                | ND                    | 1              | <1             | <1                  | <2                   | 1                 | 241          | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 07/18/2006 | 99.15              | 5.57                | 93.58             | ND                    | <1             | <1             | <1                  | <2                   | <5                | 580          | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 10/31/2006 | 99.15              | 5.55                | 93.60             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 428          | NS                        | NS                       | <100           | NS                            | NS                            |
|                   | 01/19/2007 | 99.15              | 5.99                | 93.16             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 149          | 156                       | <1.00                    | <100           | 4.53                          | <1.00                         |
|                   | 04/20/2007 | 99.15              | 4.86                | 94.29             | ND                    | <1.00          | <1.00          | <1.00               | <3.00                | <6.00             | 168          | NS                        | NS                       | <100           | NS                            | NS                            |

<# = Less than the method detection limit of #  
 µg/L = Micrograms/liter  
 BTEX = Benzene, toluene, ethylbenzene, xylenes  
 MTBE = Methyl tertiary butyl ether  
 NA = Not Available or not analyzed for that specific compound  
 ND = Not detected  
 NS = Not Sampled

**Table 2: Summary of EFR Events**

Former Texaco Facility No. 100098

2200 Pawtucket Avenue

East Providence, RI

| Monitoring Well   | Date       | Top of Casing (ft) | Depth to Water (ft) | GW Elevation (ft) | Depth to Product (ft) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | Total BTEX (µg/L) | MTBE (µg/L)  | Ethanol (µg/L) |
|-------------------|------------|--------------------|---------------------|-------------------|-----------------------|----------------|----------------|---------------------|----------------------|-------------------|--------------|----------------|
| <b>RI - GB GW</b> |            |                    |                     |                   |                       | <b>140</b>     | <b>1,700</b>   | <b>1,600</b>        | <b>NA</b>            | <b>NA</b>         | <b>5,000</b> | <b>NA</b>      |
| MW7(PRE TEST)     | 10/27/2006 | 98.41              | 5.52                | 92.89             | ND                    | <b>3,710</b>   | 1,180          | <b>2,240</b>        | 7,030                | 14,160            | 2,630        | <2,000         |
|                   | 03/27/2007 | 98.41              | 4.84                | 93.57             | ND                    | <b>3,240</b>   | 1,970          | <b>1,800</b>        | 6,980                | 13,990            | 4,030        | NA             |
| MW7(POST TEST)    | 10/27/2006 | 98.41              | 12.97               | 85.44             | ND                    | <b>1,230</b>   | 544            | <b>2,580</b>        | 3,700                | 8,054             | 1,000        | <2,000         |
|                   | 03/27/2007 | 98.41              | 5.87                | 92.54             | ND                    | <b>756</b>     | 506            | <b>2,840</b>        | 11,100               | 15,202            | 613          | NA             |

<# = Less than the method detection limit of #  
 µg/L = Micrograms/liter  
 BTEX = Benzene, toluene, ethylbenzene, xylenes  
 MTBE = Methyl tertiary butyl ether  
 NA = Not Available or not analyzed for that specific compound  
 ND = Not detected

April 10, 2007

5:17:04PM

Client: GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn: Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Nbr: SAP 100098  
P/O Nbr: 97349225  
Date Received: 03/30/07

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|-----------------------|------------|--------------------------|
| MW-7 (PRE)            | NQC4129-01 | 03/27/07 08:20           |
| MW-7 (POST)           | NQC4129-02 | 03/27/07 13:50           |
| Trip Blank            | NQC4129-03 | 03/27/07 00:01           |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Rhode Island Certification Number: LAO00268

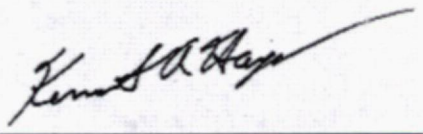
The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager



Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## ANALYTICAL REPORT

| Analyte                                                                             | Result | Flag | Units | MRL  | Dilution Factor | Analysis Date/Time | Method      | Batch   |
|-------------------------------------------------------------------------------------|--------|------|-------|------|-----------------|--------------------|-------------|---------|
| <b>Sample ID: NQC4129-01RE1 (MW-7 (PRE) - Ground Water) Sampled: 03/27/07 08:20</b> |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                             |        |      |       |      |                 |                    |             |         |
| Benzene                                                                             | 3240   |      | ug/L  | 100  | 100             | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Ethylbenzene                                                                        | 1800   |      | ug/L  | 100  | 100             | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Methyl tert-Butyl Ether                                                             | 4030   |      | ug/L  | 100  | 100             | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Toluene                                                                             | 1970   |      | ug/L  | 10.0 | 10              | 04/10/07 05:25     | SW846 8260B | 7041248 |
| Xylenes, total                                                                      | 6980   |      | ug/L  | 300  | 100             | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                               | 95 %   |      |       |      |                 | 04/10/07 05:25     | SW846 8260B | 7041248 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                               | 96 %   |      |       |      |                 | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Surr: Dibromofluoromethane (78-123%)                                                | 96 %   |      |       |      |                 | 04/10/07 05:25     | SW846 8260B | 7041248 |
| Surr: Dibromofluoromethane (78-123%)                                                | 97 %   |      |       |      |                 | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Surr: Toluene-d8 (79-120%)                                                          | 105 %  |      |       |      |                 | 04/10/07 05:25     | SW846 8260B | 7041248 |
| Surr: Toluene-d8 (79-120%)                                                          | 103 %  |      |       |      |                 | 04/10/07 05:49     | SW846 8260B | 7041248 |
| Surr: 4-Bromofluorobenzene (75-133%)                                                | 101 %  |      |       |      |                 | 04/10/07 05:25     | SW846 8260B | 7041248 |
| Surr: 4-Bromofluorobenzene (75-133%)                                                | 116 %  |      |       |      |                 | 04/10/07 05:49     | SW846 8260B | 7041248 |
| <b>Sample ID: NQC4129-02 (MW-7 (POST) - Ground Water) Sampled: 03/27/07 13:50</b>   |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                             |        |      |       |      |                 |                    |             |         |
| Benzene                                                                             | 756    |      | ug/L  | 10.0 | 10              | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Ethylbenzene                                                                        | 2840   |      | ug/L  | 100  | 100             | 04/10/07 06:37     | SW846 8260B | 7041248 |
| Methyl tert-Butyl Ether                                                             | 613    |      | ug/L  | 10.0 | 10              | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Toluene                                                                             | 506    |      | ug/L  | 10.0 | 10              | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Xylenes, total                                                                      | 11100  |      | ug/L  | 300  | 100             | 04/10/07 06:37     | SW846 8260B | 7041248 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                               | 97 %   |      |       |      |                 | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                               | 95 %   |      |       |      |                 | 04/10/07 06:37     | SW846 8260B | 7041248 |
| Surr: Dibromofluoromethane (78-123%)                                                | 97 %   |      |       |      |                 | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Surr: Dibromofluoromethane (78-123%)                                                | 97 %   |      |       |      |                 | 04/10/07 06:37     | SW846 8260B | 7041248 |
| Surr: Toluene-d8 (79-120%)                                                          | 104 %  |      |       |      |                 | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Surr: Toluene-d8 (79-120%)                                                          | 102 %  |      |       |      |                 | 04/10/07 06:37     | SW846 8260B | 7041248 |
| Surr: 4-Bromofluorobenzene (75-133%)                                                | 109 %  |      |       |      |                 | 04/10/07 06:13     | SW846 8260B | 7041248 |
| Surr: 4-Bromofluorobenzene (75-133%)                                                | 116 %  |      |       |      |                 | 04/10/07 06:37     | SW846 8260B | 7041248 |
| <b>Sample ID: NQC4129-03 (Trip Blank - Ground Water) Sampled: 03/27/07 00:01</b>    |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                             |        |      |       |      |                 |                    |             |         |
| Benzene                                                                             | ND     |      | ug/L  | 1.00 | 1               | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Ethylbenzene                                                                        | ND     |      | ug/L  | 1.00 | 1               | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Methyl tert-Butyl Ether                                                             | ND     |      | ug/L  | 1.00 | 1               | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Toluene                                                                             | ND     |      | ug/L  | 1.00 | 1               | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Xylenes, total                                                                      | ND     |      | ug/L  | 3.00 | 1               | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                               | 121 %  |      |       |      |                 | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Surr: Dibromofluoromethane (78-123%)                                                | 104 %  |      |       |      |                 | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Surr: Toluene-d8 (79-120%)                                                          | 106 %  |      |       |      |                 | 04/07/07 00:01     | SW846 8260B | 7041055 |
| Surr: 4-Bromofluorobenzene (75-133%)                                                | 110 %  |      |       |      |                 | 04/07/07 00:01     | SW846 8260B | 7041055 |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## PROJECT QUALITY CONTROL DATA

### Blank

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---------|-------------|---|-------|------------|------------|--------------------|
|---------|-------------|---|-------|------------|------------|--------------------|

#### Selected Volatile Organic Compounds by EPA Method 8260B

##### 7041055-BLK1

|                                  |        |  |      |         |              |                |
|----------------------------------|--------|--|------|---------|--------------|----------------|
| Benzene                          | <0.330 |  | ug/L | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Ethylbenzene                     | <0.420 |  | ug/L | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Methyl tert-Butyl Ether          | <0.310 |  | ug/L | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Toluene                          | <0.420 |  | ug/L | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Xylenes, total                   | <0.450 |  | ug/L | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Surrogate: 1,2-Dichloroethane-d4 | 112%   |  |      | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Surrogate: Dibromofluoromethane  | 103%   |  |      | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Surrogate: Toluene-d8            | 107%   |  |      | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |
| Surrogate: 4-Bromofluorobenzene  | 116%   |  |      | 7041055 | 7041055-BLK1 | 04/06/07 22:49 |

##### 7041248-BLK1

|                                  |        |  |      |         |              |                |
|----------------------------------|--------|--|------|---------|--------------|----------------|
| Benzene                          | <0.330 |  | ug/L | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Ethylbenzene                     | <0.420 |  | ug/L | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Methyl tert-Butyl Ether          | <0.310 |  | ug/L | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Toluene                          | <0.420 |  | ug/L | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Xylenes, total                   | <0.450 |  | ug/L | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Surrogate: 1,2-Dichloroethane-d4 | 102%   |  |      | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Surrogate: Dibromofluoromethane  | 101%   |  |      | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Surrogate: Toluene-d8            | 108%   |  |      | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |
| Surrogate: 4-Bromofluorobenzene  | 111%   |  |      | 7041248 | 7041248-BLK1 | 04/09/07 23:01 |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## PROJECT QUALITY CONTROL DATA

### LCS

| Analyte                                                        | Known Val. | Analyzed Val | Q | Units | % Rec. | Target Range | Batch   | Analyzed Date/Time |
|----------------------------------------------------------------|------------|--------------|---|-------|--------|--------------|---------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |              |   |       |        |              |         |                    |
| <b>7041055-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 53.2         |   | ug/L  | 106%   | 78 - 125     | 7041055 | 04/06/07 21:37     |
| Ethylbenzene                                                   | 50.0       | 56.1         |   | ug/L  | 112%   | 73 - 134     | 7041055 | 04/06/07 21:37     |
| Methyl tert-Butyl Ether                                        | 50.0       | 49.2         |   | ug/L  | 98%    | 69 - 122     | 7041055 | 04/06/07 21:37     |
| Toluene                                                        | 50.0       | 56.1         |   | ug/L  | 112%   | 78 - 122     | 7041055 | 04/06/07 21:37     |
| Xylenes, total                                                 | 150        | 172          |   | ug/L  | 115%   | 79 - 130     | 7041055 | 04/06/07 21:37     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 54.3         |   |       | 109%   | 62 - 142     | 7041055 | 04/06/07 21:37     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 52.2         |   |       | 104%   | 78 - 123     | 7041055 | 04/06/07 21:37     |
| Surrogate: Toluene-d8                                          | 50.0       | 52.7         |   |       | 105%   | 79 - 120     | 7041055 | 04/06/07 21:37     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 49.3         |   |       | 99%    | 75 - 133     | 7041055 | 04/06/07 21:37     |
| <b>7041248-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 50.0         |   | ug/L  | 100%   | 78 - 125     | 7041248 | 04/09/07 21:49     |
| Ethylbenzene                                                   | 50.0       | 54.2         |   | ug/L  | 108%   | 73 - 134     | 7041248 | 04/09/07 21:49     |
| Methyl tert-Butyl Ether                                        | 50.0       | 45.7         |   | ug/L  | 91%    | 69 - 122     | 7041248 | 04/09/07 21:49     |
| Toluene                                                        | 50.0       | 53.4         |   | ug/L  | 107%   | 78 - 122     | 7041248 | 04/09/07 21:49     |
| Xylenes, total                                                 | 150        | 165          |   | ug/L  | 110%   | 79 - 130     | 7041248 | 04/09/07 21:49     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 50.1         |   |       | 100%   | 62 - 142     | 7041248 | 04/09/07 21:49     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 49.8         |   |       | 100%   | 78 - 123     | 7041248 | 04/09/07 21:49     |
| Surrogate: Toluene-d8                                          | 50.0       | 52.2         |   |       | 104%   | 79 - 120     | 7041248 | 04/09/07 21:49     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 54.3         |   |       | 109%   | 75 - 133     | 7041248 | 04/09/07 21:49     |



Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## PROJECT QUALITY CONTROL DATA

### LCS Dup

| Analyte                                                        | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch   | Sample Duplicated | Analyzed Date/Time |
|----------------------------------------------------------------|------------|-----------|---|-------|------------|--------|--------------|-----|-------|---------|-------------------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |           |   |       |            |        |              |     |       |         |                   |                    |
| <b>7041248-BSD1</b>                                            |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                        |            | 51.9      |   | ug/L  | 50.0       | 104%   | 78 - 125     | 4   | 15    | 7041248 |                   | 04/09/07 22:13     |
| Ethylbenzene                                                   |            | 56.0      |   | ug/L  | 50.0       | 112%   | 73 - 134     | 3   | 15    | 7041248 |                   | 04/09/07 22:13     |
| Methyl tert-Butyl Ether                                        |            | 47.7      |   | ug/L  | 50.0       | 95%    | 69 - 122     | 4   | 16    | 7041248 |                   | 04/09/07 22:13     |
| Toluene                                                        |            | 55.5      |   | ug/L  | 50.0       | 111%   | 78 - 122     | 4   | 15    | 7041248 |                   | 04/09/07 22:13     |
| Xylenes, total                                                 |            | 171       |   | ug/L  | 150        | 114%   | 79 - 130     | 4   | 16    | 7041248 |                   | 04/09/07 22:13     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 50.0      |   | ug/L  | 50.0       | 100%   | 62 - 142     |     |       | 7041248 |                   | 04/09/07 22:13     |
| Surrogate: Dibromofluoromethane                                |            | 50.6      |   | ug/L  | 50.0       | 101%   | 78 - 123     |     |       | 7041248 |                   | 04/09/07 22:13     |
| Surrogate: Toluene-d8                                          |            | 52.6      |   | ug/L  | 50.0       | 105%   | 79 - 120     |     |       | 7041248 |                   | 04/09/07 22:13     |
| Surrogate: 4-Bromofluorobenzene                                |            | 53.9      |   | ug/L  | 50.0       | 108%   | 75 - 133     |     |       | 7041248 |                   | 04/09/07 22:13     |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## PROJECT QUALITY CONTROL DATA

### Matrix Spike

| Analyte                                                        | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target Range | Batch   | Sample Spiked     | Analyzed Date/Time |
|----------------------------------------------------------------|------------|--------|---|-------|------------|--------|--------------|---------|-------------------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |        |   |       |            |        |              |         |                   |                    |
| <b>7041055-MS1</b>                                             |            |        |   |       |            |        |              |         |                   |                    |
| Benzene                                                        | ND         | 60.5   |   | ug/L  | 50.0       | 121%   | 74 - 130     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Ethylbenzene                                                   | ND         | 61.9   |   | ug/L  | 50.0       | 124%   | 70 - 143     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Methyl tert-Butyl Ether                                        | 0.760      | 59.8   |   | ug/L  | 50.0       | 118%   | 62 - 135     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Toluene                                                        | ND         | 60.6   |   | ug/L  | 50.0       | 121%   | 70 - 137     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Xylenes, total                                                 | ND         | 193    |   | ug/L  | 150        | 129%   | 62 - 147     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 57.4   |   | ug/L  | 50.0       | 115%   | 62 - 142     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Surrogate: Dibromofluoromethane                                |            | 52.2   |   | ug/L  | 50.0       | 104%   | 78 - 123     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Surrogate: Toluene-d8                                          |            | 51.2   |   | ug/L  | 50.0       | 102%   | 79 - 120     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |
| Surrogate: 4-Bromofluorobenzene                                |            | 46.4   |   | ug/L  | 50.0       | 93%    | 75 - 133     | 7041055 | NQC3845-01R<br>E1 | 04/07/07 06:49     |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## PROJECT QUALITY CONTROL DATA

### Matrix Spike Dup

| Analyte                                                        | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch   | Sample Duplicated | Analyzed Date/Time |
|----------------------------------------------------------------|------------|-----------|---|-------|------------|--------|--------------|-----|-------|---------|-------------------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |           |   |       |            |        |              |     |       |         |                   |                    |
| <b>7041055-MSD1</b>                                            |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                        | ND         | 59.5      |   | ug/L  | 50.0       | 119%   | 74 - 130     | 2   | 15    | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Ethylbenzene                                                   | ND         | 62.3      |   | ug/L  | 50.0       | 125%   | 70 - 143     | 0.6 | 15    | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Methyl tert-Butyl Ether                                        | 0.760      | 61.8      |   | ug/L  | 50.0       | 122%   | 62 - 135     | 3   | 16    | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Toluene                                                        | ND         | 60.8      |   | ug/L  | 50.0       | 122%   | 70 - 137     | 0.3 | 15    | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Xylenes, total                                                 | ND         | 193       |   | ug/L  | 150        | 129%   | 62 - 147     | 0   | 16    | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 56.6      |   | ug/L  | 50.0       | 113%   | 62 - 142     |     |       | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Surrogate: Dibromofluoromethane                                |            | 51.9      |   | ug/L  | 50.0       | 104%   | 78 - 123     |     |       | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Surrogate: Toluene-d8                                          |            | 51.5      |   | ug/L  | 50.0       | 103%   | 79 - 120     |     |       | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |
| Surrogate: 4-Bromofluorobenzene                                |            | 47.6      |   | ug/L  | 50.0       | 95%    | 75 - 133     |     |       | 7041055 | NQC3845-01R<br>E1 | 04/07/07 07:13     |



Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQC4129  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 03/30/07 08:00

## CERTIFICATION SUMMARY

### TestAmerica - Nashville, TN

| Method      | Matrix | AIHA | Nelac | Rhode Island |
|-------------|--------|------|-------|--------------|
| SW846 8260B | Water  | N/A  | X     | N/A          |



NQC4129

**Nashville Division****COOLER RECEIPT FORM**

BC#

Cooler Received/Opened On 3/30/07 @ 8:001. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below: 5470

Fed-Ex    UPS    Velocity    DHL    Route    Off-street    Misc.

2. Temperature of representative sample or temperature blank when opened: 3.0 Degrees Celsius  
(indicate IR Gun ID#)NA    A00466    A00750    A01124    100190    101282    10594    909428563. Were custody seals on outside of cooler?..... YES...☒...NA

a. If yes, how many and where: \_\_\_\_\_

4. Were the seals intact, signed, and dated correctly?..... YES...NO...☒NA5. Were custody papers inside cooler?..... ☒YES...NO...NAI certify that I opened the cooler and answered questions 1-5 (initial)..... JR6. Were custody seals on containers: YES NO and Intact YES NO NA  
were these signed, and dated correctly?..... ☒YES...NO...☒NA

7. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert

Plastic bag    Paper    Other \_\_\_\_\_    None

8. Cooling process: ☒Ice Ice-pack Ice (direct contact) Dry ice Other None9. Did all containers arrive in good condition (unbroken)?..... ☒YES...NO...NA10. Were all container labels complete (#, date, signed, pres., etc)?..... ☒YES...NO...NA11. Did all container labels and tags agree with custody papers?..... ☒YES...NO...NA12. a. Were VOA vials received?..... ☒YES...NO...NAb. Was there any observable head space present in any VOA vial?..... YES...☒NO...NAI certify that I unloaded the cooler and answered questions 6-12 (initial)..... JP13. a. On preserved bottles did the pH test strips suggest that preservation reached the correct pH level? YES...NO...☒NAb. Did the bottle labels indicate that the correct preservatives were used?..... ☒YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here \_\_\_\_\_

14. Was residual chlorine present?..... YES...NO...☒NAI certify that I checked for chlorine and pH as per SOP and answered questions 13-14 (initial)..... JP15. Were custody papers properly filled out (ink, signed, etc)?..... ☒YES...NO...NA16. Did you sign the custody papers in the appropriate place?..... ☒YES...NO...NA17. Were correct containers used for the analysis requested?..... ☒YES...NO...NA18. Was sufficient amount of sample sent in each container?..... ☒YES...NO...NAI certify that I entered this project into LIMS and answered questions 15-18 (initial)..... JPI certify that I attached a label with the unique LIMS number to each container (initial)..... JP

19. Were there Non-Conformance issues at login YES NO Was a PIPE generated YES NO # \_\_\_\_\_



☒ TEST AMERICA - 2690 FOSTER CREIGHTON, NASHVILLE, TN:

PHONE 800-765-0980 FAX# 616-726-3404

☐ TA - 1008 W. NINTH AVE, KING OF PRUSSIA, PA 19406

24 HR TAT ONLY IF LAB IS LOCAL

☐ AIR TOXICS

☐ XENCO

☐ OTHER



# Shell Oil Products Chain Of Custody Record

NAME OF PERSON TO BILL: Jennifer Bothwell

☒ ENV. SERVICES

☐ SOF LA

☐ HSE (compliance)

☐ RMT/CONT

☐ NETWORK DEV. /FC

☐ BELL CONSULTANT

INCIDENT NUMBER

97349225

DATE: 3/27/07

PAGE: 1 of 1

PO NUMBER

SAP #

9 7 3 4 9 2 2 5

1 0 0 0 9 8

CONSULTANT COMPANY

Groundwater & Environmental Services, Inc.

ADDRESS

364 Littleton Road, Suite 4

CITY

Westford, MA 01886

TELEPHONE

978-392-0090

FAX

978-392-8583

E-MAIL

mhlfinger@gesonline.com

TURNAROUND TIME (STD IS BUSINESS DAYS / RUSH IS CALENDAR DAYS)

☒ STANDARD (10 DAY)

☐ 5 DAYS

☐ 3 DAYS

☐ 2 DAYS

☐ 24 HOURS

☐ RESULTS NEEDED ON WEEKEND

DELIVERABLES:

☒ LEVEL 1

☐ LEVEL 2

☐ LEVEL 3

☐ LEVEL 4

☐ OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C°

☐ PROVIDE LEDD DISK

SPECIAL INSTRUCTIONS OR NOTES:

3.00L

☒ SHELL CONTRACT RATE APPLIES

☐ STATE REIMBURSEMENT RATE APPLIES

SITE ADDRESS (Street and City):

2200 Pawtucket Ave, East Providence, RI

PROJECT CONTACT (Report to)

Martin Hilfinger

CONSULTANT PROJECT NO. 1602335

SAMPLER NAME(S) (Print)

J4501 Alaska 2

LAB USE ONLY

REQUESTED ANALYSIS (Please include Method Number)

Container PID Readings  
or Laboratory Notes

NQC4129

04/13/07 23:59

| LAB<br>USE<br>ONLY | Field Sample Identification | SAMPLING |       | MATRIX | PRESERVATIVE |      |       |      |       | NO. OF<br>CONT. | BTEX, MTBE<br>by EPA Method 8260 |  |  |  |  |  |  |  |  |  |  |
|--------------------|-----------------------------|----------|-------|--------|--------------|------|-------|------|-------|-----------------|----------------------------------|--|--|--|--|--|--|--|--|--|--|
|                    |                             | DATE     | TIME  |        | HCL          | HNO3 | H2SO4 | NONE | OTHER |                 |                                  |  |  |  |  |  |  |  |  |  |  |
|                    | MW-7 (PRE)                  | 3/27/07  | 5:20  | G-1    | X            |      |       |      |       | 3               | X                                |  |  |  |  |  |  |  |  |  |  |
|                    | MW-7 (POST)                 | ✓        | 13:50 | ✓      | X            |      |       |      |       | 3               | X                                |  |  |  |  |  |  |  |  |  |  |
|                    | Trip Blk 44                 |          |       |        |              |      |       |      |       | 1               | X                                |  |  |  |  |  |  |  |  |  |  |

Requested by (Signature)

Juan M. C...

Requested by (Signature)

Juan M. C...

Requested by (Signature)

Received by (Signature)

ges study

Received by (Signature)

GRBL

Received by (Signature)

1472

Date

3/27/07

Date

3-29-07

Date

3/30/07

Time

16:00

Time

14:50

Time

0200

CUSTODY SEAL NUMBER:

05/02/06 Revision

May 07, 2007

5:27:24PM

Client: GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn: Martin Hilfinger

Work Order: NQD2936  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Nbr: SAP 100098  
P/O Nbr: 97349225  
Date Received: 04/24/07

| SAMPLE IDENTIFICATION | LAB NUMBER | COLLECTION DATE AND TIME |
|-----------------------|------------|--------------------------|
| MW5                   | NQD2936-01 | 04/20/07 14:25           |
| MW6                   | NQD2936-02 | 04/20/07 14:05           |
| MW7                   | NQD2936-03 | 04/20/07 13:50           |
| MW8                   | NQD2936-04 | 04/20/07 13:25           |
| Trip Blank            | NQD2936-05 | 04/20/07 00:01           |

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

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Rhode Island Certification Number: LAO00268

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Ken A. Hayes

Senior Project Manager



Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQD2936  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 04/24/07 08:00

## ANALYTICAL REPORT

| Analyte                                                                      | Result | Flag | Units | MRL  | Dilution Factor | Analysis Date/Time | Method      | Batch   |
|------------------------------------------------------------------------------|--------|------|-------|------|-----------------|--------------------|-------------|---------|
| <b>Sample ID: NQD2936-01RE1 (MW5 - Ground Water) Sampled: 04/20/07 14:25</b> |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                      |        |      |       |      |                 |                    |             |         |
| Benzene                                                                      | ND     | P-HS | ug/L  | 1.00 | 1               | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Ethylbenzene                                                                 | ND     | P-HS | ug/L  | 1.00 | 1               | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Methyl tert-Butyl Ether                                                      | 7.46   | P-HS | ug/L  | 1.00 | 1               | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Toluene                                                                      | ND     | P-HS | ug/L  | 1.00 | 1               | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Xylenes, total                                                               | ND     | P-HS | ug/L  | 3.00 | 1               | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Ethanol                                                                      | ND     |      | ug/L  | 100  | 1               | 05/04/07 10:03     | SW846 8260B | 7050457 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 104 %  |      |       |      |                 | 05/04/07 10:03     | SW846 8260B | 7050457 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 104 %  |      |       |      |                 | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Surr: Dibromofluoromethane (78-123%)                                         | 104 %  |      |       |      |                 | 05/04/07 10:03     | SW846 8260B | 7050457 |
| Surr: Dibromofluoromethane (78-123%)                                         | 105 %  |      |       |      |                 | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Surr: Toluene-d8 (79-120%)                                                   | 107 %  |      |       |      |                 | 05/04/07 10:03     | SW846 8260B | 7050457 |
| Surr: Toluene-d8 (79-120%)                                                   | 105 %  |      |       |      |                 | 05/04/07 15:39     | SW846 8260B | 7050800 |
| Surr: 4-Bromofluorobenzene (75-133%)                                         | 105 %  |      |       |      |                 | 05/04/07 10:03     | SW846 8260B | 7050457 |
| Surr: 4-Bromofluorobenzene (75-133%)                                         | 106 %  |      |       |      |                 | 05/04/07 15:39     | SW846 8260B | 7050800 |
| <b>Sample ID: NQD2936-02RE1 (MW6 - Ground Water) Sampled: 04/20/07 14:05</b> |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                      |        |      |       |      |                 |                    |             |         |
| Benzene                                                                      | ND     |      | ug/L  | 1.00 | 1               | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Ethylbenzene                                                                 | ND     |      | ug/L  | 1.00 | 1               | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Methyl tert-Butyl Ether                                                      | 27.8   |      | ug/L  | 1.00 | 1               | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Toluene                                                                      | ND     |      | ug/L  | 1.00 | 1               | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Xylenes, total                                                               | ND     |      | ug/L  | 3.00 | 1               | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Ethanol                                                                      | ND     |      | ug/L  | 100  | 1               | 05/04/07 10:33     | SW846 8260B | 7050457 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 104 %  |      |       |      |                 | 05/04/07 10:33     | SW846 8260B | 7050457 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 104 %  |      |       |      |                 | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Surr: Dibromofluoromethane (78-123%)                                         | 106 %  |      |       |      |                 | 05/04/07 10:33     | SW846 8260B | 7050457 |
| Surr: Dibromofluoromethane (78-123%)                                         | 106 %  |      |       |      |                 | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Surr: Toluene-d8 (79-120%)                                                   | 105 %  |      |       |      |                 | 05/04/07 10:33     | SW846 8260B | 7050457 |
| Surr: Toluene-d8 (79-120%)                                                   | 105 %  |      |       |      |                 | 05/04/07 16:09     | SW846 8260B | 7050800 |
| Surr: 4-Bromofluorobenzene (75-133%)                                         | 106 %  |      |       |      |                 | 05/04/07 10:33     | SW846 8260B | 7050457 |
| Surr: 4-Bromofluorobenzene (75-133%)                                         | 105 %  |      |       |      |                 | 05/04/07 16:09     | SW846 8260B | 7050800 |
| <b>Sample ID: NQD2936-03RE1 (MW7 - Ground Water) Sampled: 04/20/07 13:50</b> |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                      |        |      |       |      |                 |                    |             |         |
| Benzene                                                                      | 1410   |      | ug/L  | 10.0 | 10              | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Ethylbenzene                                                                 | 2680   |      | ug/L  | 50.0 | 50              | 05/04/07 15:35     | SW846 8260B | 7050908 |
| Methyl tert-Butyl Ether                                                      | 1810   |      | ug/L  | 10.0 | 10              | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Toluene                                                                      | 719    |      | ug/L  | 10.0 | 10              | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Xylenes, total                                                               | 8720   |      | ug/L  | 150  | 50              | 05/04/07 15:35     | SW846 8260B | 7050908 |
| Ethanol                                                                      | ND     |      | ug/L  | 100  | 1               | 05/04/07 11:02     | SW846 8260B | 7050457 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 119 %  |      |       |      |                 | 05/04/07 11:02     | SW846 8260B | 7050457 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 99 %   |      |       |      |                 | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                        | 101 %  |      |       |      |                 | 05/04/07 15:35     | SW846 8260B | 7050908 |
| Surr: Dibromofluoromethane (78-123%)                                         | 101 %  |      |       |      |                 | 05/04/07 11:02     | SW846 8260B | 7050457 |
| Surr: Dibromofluoromethane (78-123%)                                         | 87 %   |      |       |      |                 | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Surr: Dibromofluoromethane (78-123%)                                         | 96 %   |      |       |      |                 | 05/04/07 15:35     | SW846 8260B | 7050908 |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQD2936  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 04/24/07 08:00

## ANALYTICAL REPORT

| Analyte                                                                           | Result | Flag | Units | MRL  | Dilution Factor | Analysis Date/Time | Method      | Batch   |
|-----------------------------------------------------------------------------------|--------|------|-------|------|-----------------|--------------------|-------------|---------|
| <b>Sample ID: NQD2936-03 (MW7 - Ground Water) - cont. Sampled: 04/20/07 13:50</b> |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B - cont.                   |        |      |       |      |                 |                    |             |         |
| Surr: Toluene-d8 (79-120%)                                                        | 103 %  |      |       |      |                 | 05/04/07 11:02     | SW846 8260B | 7050457 |
| Surr: Toluene-d8 (79-120%)                                                        | 99 %   |      |       |      |                 | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Surr: Toluene-d8 (79-120%)                                                        | 101 %  |      |       |      |                 | 05/04/07 15:35     | SW846 8260B | 7050908 |
| Surr: 4-Bromofluorobenzene (75-133%)                                              | 122 %  |      |       |      |                 | 05/04/07 15:08     | SW846 8260B | 7050908 |
| Surr: 4-Bromofluorobenzene (75-133%)                                              | 107 %  |      |       |      |                 | 05/04/07 15:35     | SW846 8260B | 7050908 |
| <b>Sample ID: NQD2936-04RE1 (MW8 - Ground Water) Sampled: 04/20/07 13:25</b>      |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                           |        |      |       |      |                 |                    |             |         |
| Benzene                                                                           | ND     |      | ug/L  | 1.00 | 1               | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Ethylbenzene                                                                      | ND     |      | ug/L  | 1.00 | 1               | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Methyl tert-Butyl Ether                                                           | 168    |      | ug/L  | 1.00 | 1               | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Toluene                                                                           | ND     |      | ug/L  | 1.00 | 1               | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Xylenes, total                                                                    | ND     |      | ug/L  | 3.00 | 1               | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Ethanol                                                                           | ND     |      | ug/L  | 100  | 1               | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                             | 105 %  |      |       |      |                 | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Surr: Dibromofluoromethane (78-123%)                                              | 96 %   |      |       |      |                 | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Surr: Toluene-d8 (79-120%)                                                        | 103 %  |      |       |      |                 | 05/04/07 13:49     | SW846 8260B | 7050908 |
| Surr: 4-Bromofluorobenzene (75-133%)                                              | 104 %  |      |       |      |                 | 05/04/07 13:49     | SW846 8260B | 7050908 |
| <b>Sample ID: NQD2936-05 (Trip Blank - Ground Water) Sampled: 04/20/07 00:01</b>  |        |      |       |      |                 |                    |             |         |
| Selected Volatile Organic Compounds by EPA Method 8260B                           |        |      |       |      |                 |                    |             |         |
| Benzene                                                                           | ND     |      | ug/L  | 1.00 | 1               | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Ethylbenzene                                                                      | ND     |      | ug/L  | 1.00 | 1               | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Methyl tert-Butyl Ether                                                           | ND     |      | ug/L  | 1.00 | 1               | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Toluene                                                                           | ND     |      | ug/L  | 1.00 | 1               | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Xylenes, total                                                                    | ND     |      | ug/L  | 3.00 | 1               | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Ethanol                                                                           | ND     |      | ug/L  | 100  | 1               | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Surr: 1,2-Dichloroethane-d4 (62-142%)                                             | 102 %  |      |       |      |                 | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Surr: Dibromofluoromethane (78-123%)                                              | 104 %  |      |       |      |                 | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Surr: Toluene-d8 (79-120%)                                                        | 107 %  |      |       |      |                 | 05/03/07 17:16     | SW846 8260B | 7045763 |
| Surr: 4-Bromofluorobenzene (75-133%)                                              | 105 %  |      |       |      |                 | 05/03/07 17:16     | SW846 8260B | 7045763 |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
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Project Number: SAP 100098  
Received: 04/24/07 08:00

## PROJECT QUALITY CONTROL DATA

### Blank

| Analyte | Blank Value | Q | Units | Q.C. Batch | Lab Number | Analyzed Date/Time |
|---------|-------------|---|-------|------------|------------|--------------------|
|---------|-------------|---|-------|------------|------------|--------------------|

#### Selected Volatile Organic Compounds by EPA Method 8260B

##### 7045763-BLK1

|                                  |        |  |      |         |              |                |
|----------------------------------|--------|--|------|---------|--------------|----------------|
| Benzene                          | <0.330 |  | ug/L | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Ethylbenzene                     | <0.420 |  | ug/L | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Methyl tert-Butyl Ether          | <0.310 |  | ug/L | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Toluene                          | <0.420 |  | ug/L | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Xylenes, total                   | <0.450 |  | ug/L | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Ethanol                          | <62.0  |  | ug/L | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: 1,2-Dichloroethane-d4 | 103%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: 1,2-Dichloroethane-d4 | 103%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: Dibromofluoromethane  | 106%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: Dibromofluoromethane  | 106%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: Toluene-d8            | 106%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: Toluene-d8            | 106%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: 4-Bromofluorobenzene  | 105%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |
| Surrogate: 4-Bromofluorobenzene  | 105%   |  |      | 7045763 | 7045763-BLK1 | 05/03/07 16:46 |

##### 7050457-BLK1

|                                  |        |  |      |         |              |                |
|----------------------------------|--------|--|------|---------|--------------|----------------|
| Benzene                          | <0.330 |  | ug/L | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Ethylbenzene                     | <0.420 |  | ug/L | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Methyl tert-Butyl Ether          | <0.310 |  | ug/L | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Toluene                          | <0.420 |  | ug/L | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Xylenes, total                   | <0.450 |  | ug/L | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Ethanol                          | <62.0  |  | ug/L | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: 1,2-Dichloroethane-d4 | 104%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: 1,2-Dichloroethane-d4 | 104%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: Dibromofluoromethane  | 106%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: Dibromofluoromethane  | 106%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: Toluene-d8            | 105%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: Toluene-d8            | 105%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: 4-Bromofluorobenzene  | 106%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |
| Surrogate: 4-Bromofluorobenzene  | 106%   |  |      | 7050457 | 7050457-BLK1 | 05/04/07 04:37 |

##### 7050800-BLK1

|                                  |        |  |      |         |              |                |
|----------------------------------|--------|--|------|---------|--------------|----------------|
| Benzene                          | <0.330 |  | ug/L | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Ethylbenzene                     | <0.420 |  | ug/L | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Methyl tert-Butyl Ether          | <0.310 |  | ug/L | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Toluene                          | <0.420 |  | ug/L | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Xylenes, total                   | <0.450 |  | ug/L | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Surrogate: 1,2-Dichloroethane-d4 | 105%   |  |      | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Surrogate: Dibromofluoromethane  | 105%   |  |      | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Surrogate: Toluene-d8            | 106%   |  |      | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |
| Surrogate: 4-Bromofluorobenzene  | 107%   |  |      | 7050800 | 7050800-BLK1 | 05/04/07 15:09 |



Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
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Project Number: SAP 100098  
Received: 04/24/07 08:00

## PROJECT QUALITY CONTROL DATA

### Blank - Cont.

| Analyte                                                        | Blank Value | Q | Units | Q.C. Batch | Lab Number   | Analyzed Date/Time |
|----------------------------------------------------------------|-------------|---|-------|------------|--------------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |             |   |       |            |              |                    |
| <b>7050908-BLK1</b>                                            |             |   |       |            |              |                    |
| Benzene                                                        | <0.290      |   | ug/L  | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Ethylbenzene                                                   | <0.340      |   | ug/L  | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Methyl tert-Butyl Ether                                        | <0.310      |   | ug/L  | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Toluene                                                        | <0.280      |   | ug/L  | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Xylenes, total                                                 | <0.450      |   | ug/L  | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Ethanol                                                        | <62.0       |   | ug/L  | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: 1,2-Dichloroethane-d4                               | 102%        |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: 1,2-Dichloroethane-d4                               | 102%        |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: Dibromofluoromethane                                | 96%         |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: Dibromofluoromethane                                | 96%         |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: Toluene-d8                                          | 102%        |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: Toluene-d8                                          | 102%        |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: 4-Bromofluorobenzene                                | 104%        |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |
| Surrogate: 4-Bromofluorobenzene                                | 104%        |   |       | 7050908    | 7050908-BLK1 | 05/04/07 11:37     |

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Project Number: SAP 100098  
Received: 04/24/07 08:00

## PROJECT QUALITY CONTROL DATA

### LCS

| Analyte                                                        | Known Val. | Analyzed Val | Q    | Units | % Rec. | Target Range | Batch   | Analyzed Date/Time |
|----------------------------------------------------------------|------------|--------------|------|-------|--------|--------------|---------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |              |      |       |        |              |         |                    |
| <b>7045763-BS1</b>                                             |            |              |      |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 49.6         | MNR1 | ug/L  | 99%    | 78 - 125     | 7045763 | 05/03/07 15:17     |
| Ethylbenzene                                                   | 50.0       | 49.9         | MNR1 | ug/L  | 100%   | 73 - 134     | 7045763 | 05/03/07 15:17     |
| Methyl tert-Butyl Ether                                        | 50.0       | 44.3         | MNR1 | ug/L  | 89%    | 69 - 122     | 7045763 | 05/03/07 15:17     |
| Toluene                                                        | 50.0       | 48.7         | MNR1 | ug/L  | 97%    | 78 - 122     | 7045763 | 05/03/07 15:17     |
| Xylenes, total                                                 | 150        | 153          | MNR1 | ug/L  | 102%   | 79 - 130     | 7045763 | 05/03/07 15:17     |
| Ethanol                                                        | 5000       | 6010         | MNR1 | ug/L  | 120%   | 41 - 166     | 7045763 | 05/03/07 15:17     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 55.3         |      |       | 111%   | 62 - 142     | 7045763 | 05/03/07 15:17     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 55.3         |      |       | 111%   | 62 - 142     | 7045763 | 05/03/07 15:17     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 53.6         |      |       | 107%   | 78 - 123     | 7045763 | 05/03/07 15:17     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 53.6         |      |       | 107%   | 78 - 123     | 7045763 | 05/03/07 15:17     |
| Surrogate: Toluene-d8                                          | 50.0       | 54.7         |      |       | 109%   | 79 - 120     | 7045763 | 05/03/07 15:17     |
| Surrogate: Toluene-d8                                          | 50.0       | 54.7         |      |       | 109%   | 79 - 120     | 7045763 | 05/03/07 15:17     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 52.0         |      |       | 104%   | 75 - 133     | 7045763 | 05/03/07 15:17     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 52.0         |      |       | 104%   | 75 - 133     | 7045763 | 05/03/07 15:17     |
| <b>7050457-BS1</b>                                             |            |              |      |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 71.0         | L1   | ug/L  | 142%   | 78 - 125     | 7050457 | 05/04/07 03:38     |
| Ethylbenzene                                                   | 50.0       | 70.9         | L1   | ug/L  | 142%   | 73 - 134     | 7050457 | 05/04/07 03:38     |
| Methyl tert-Butyl Ether                                        | 50.0       | 64.1         | L1   | ug/L  | 128%   | 69 - 122     | 7050457 | 05/04/07 03:38     |
| Toluene                                                        | 50.0       | 70.3         | L1   | ug/L  | 141%   | 78 - 122     | 7050457 | 05/04/07 03:38     |
| Xylenes, total                                                 | 150        | 217          | L1   | ug/L  | 145%   | 79 - 130     | 7050457 | 05/04/07 03:38     |
| Ethanol                                                        | 5000       | 8210         |      | ug/L  | 164%   | 41 - 166     | 7050457 | 05/04/07 03:38     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 52.2         |      |       | 104%   | 62 - 142     | 7050457 | 05/04/07 03:38     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 52.2         |      |       | 104%   | 62 - 142     | 7050457 | 05/04/07 03:38     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 53.6         |      |       | 107%   | 78 - 123     | 7050457 | 05/04/07 03:38     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 53.6         |      |       | 107%   | 78 - 123     | 7050457 | 05/04/07 03:38     |
| Surrogate: Toluene-d8                                          | 50.0       | 55.0         |      |       | 110%   | 79 - 120     | 7050457 | 05/04/07 03:38     |
| Surrogate: Toluene-d8                                          | 50.0       | 55.0         |      |       | 110%   | 79 - 120     | 7050457 | 05/04/07 03:38     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 52.9         |      |       | 106%   | 75 - 133     | 7050457 | 05/04/07 03:38     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 52.9         |      |       | 106%   | 75 - 133     | 7050457 | 05/04/07 03:38     |
| <b>7050800-BS1</b>                                             |            |              |      |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 56.6         |      | ug/L  | 113%   | 78 - 125     | 7050800 | 05/04/07 14:10     |
| Ethylbenzene                                                   | 50.0       | 55.5         |      | ug/L  | 111%   | 73 - 134     | 7050800 | 05/04/07 14:10     |
| Methyl tert-Butyl Ether                                        | 50.0       | 50.1         |      | ug/L  | 100%   | 69 - 122     | 7050800 | 05/04/07 14:10     |
| Toluene                                                        | 50.0       | 53.7         |      | ug/L  | 107%   | 78 - 122     | 7050800 | 05/04/07 14:10     |
| Xylenes, total                                                 | 150        | 168          |      | ug/L  | 112%   | 79 - 130     | 7050800 | 05/04/07 14:10     |
| Surrogate: 1,2-Dichloroethane-d4                               | 50.0       | 53.5         |      |       | 107%   | 62 - 142     | 7050800 | 05/04/07 14:10     |
| Surrogate: Dibromofluoromethane                                | 50.0       | 54.4         |      |       | 109%   | 78 - 123     | 7050800 | 05/04/07 14:10     |
| Surrogate: Toluene-d8                                          | 50.0       | 53.6         |      |       | 107%   | 79 - 120     | 7050800 | 05/04/07 14:10     |
| Surrogate: 4-Bromofluorobenzene                                | 50.0       | 52.0         |      |       | 104%   | 75 - 133     | 7050800 | 05/04/07 14:10     |

Client GES (Westford) / SHELL (13755)  
364 Littleton Rd.  
Westford, MA 01886  
Attn Martin Hilfinger

Work Order: NQD2936  
Project Name: 2200 Pawtucket Ave., East Providence, RI  
Project Number: SAP 100098  
Received: 04/24/07 08:00

PROJECT QUALITY CONTROL DATA  
LCS - Cont.

| Analyte                                                        | Known Val. | Analyzed Val | Q | Units | % Rec. | Target Range | Batch   | Analyzed Date/Time |
|----------------------------------------------------------------|------------|--------------|---|-------|--------|--------------|---------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |              |   |       |        |              |         |                    |
| <b>7050908-BS1</b>                                             |            |              |   |       |        |              |         |                    |
| Benzene                                                        | 50.0       | 52.2         |   | ug/L  | 104%   | 78 - 122     | 7050908 | 05/04/07 10:17     |
| Ethylbenzene                                                   | 50.0       | 55.2         |   | ug/L  | 110%   | 82 - 122     | 7050908 | 05/04/07 10:17     |
| Methyl tert-Butyl Ether                                        | 50.0       | 50.5         |   | ug/L  | 101%   | 69 - 122     | 7050908 | 05/04/07 10:17     |
| Toluene                                                        | 50.0       | 53.7         |   | ug/L  | 107%   | 80 - 120     | 7050908 | 05/04/07 10:17     |
| Xylenes, total                                                 | 150        | 164          |   | ug/L  | 109%   | 81 - 125     | 7050908 | 05/04/07 10:17     |
| Ethanol                                                        | 5000       | 6330         |   | ug/L  | 127%   | 41 - 166     | 7050908 | 05/04/07 10:17     |
| Surrogate: 1,2-Dichloroethane-d4                               | 25.0       | 24.2         |   |       | 97%    | 70 - 130     | 7050908 | 05/04/07 10:17     |
| Surrogate: 1,2-Dichloroethane-d4                               | 25.0       | 24.2         |   |       | 97%    | 62 - 142     | 7050908 | 05/04/07 10:17     |
| Surrogate: Dibromofluoromethane                                | 25.0       | 23.9         |   |       | 96%    | 79 - 122     | 7050908 | 05/04/07 10:17     |
| Surrogate: Dibromofluoromethane                                | 25.0       | 23.9         |   |       | 96%    | 78 - 123     | 7050908 | 05/04/07 10:17     |
| Surrogate: Toluene-d8                                          | 25.0       | 25.5         |   |       | 102%   | 79 - 120     | 7050908 | 05/04/07 10:17     |
| Surrogate: Toluene-d8                                          | 25.0       | 25.5         |   |       | 102%   | 79 - 120     | 7050908 | 05/04/07 10:17     |
| Surrogate: 4-Bromofluorobenzene                                | 25.0       | 27.3         |   |       | 109%   | 78 - 126     | 7050908 | 05/04/07 10:17     |
| Surrogate: 4-Bromofluorobenzene                                | 25.0       | 27.3         |   |       | 109%   | 75 - 133     | 7050908 | 05/04/07 10:17     |



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Project Number: SAP 100098  
Received: 04/24/07 08:00

## PROJECT QUALITY CONTROL DATA

### LCS Dup

| Analyte                                                        | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch   | Sample Duplicated | Analyzed Date/Time |
|----------------------------------------------------------------|------------|-----------|---|-------|------------|--------|--------------|-----|-------|---------|-------------------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |           |   |       |            |        |              |     |       |         |                   |                    |
| <b>7045763-BSD1</b>                                            |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                        |            | 48.1      |   | ug/L  | 50.0       | 96%    | 78 - 125     | 3   | 15    | 7045763 |                   | 05/03/07 15:47     |
| Ethylbenzene                                                   |            | 48.5      |   | ug/L  | 50.0       | 97%    | 73 - 134     | 3   | 15    | 7045763 |                   | 05/03/07 15:47     |
| Methyl tert-Butyl Ether                                        |            | 43.1      |   | ug/L  | 50.0       | 86%    | 69 - 122     | 3   | 16    | 7045763 |                   | 05/03/07 15:47     |
| Toluene                                                        |            | 47.4      |   | ug/L  | 50.0       | 95%    | 78 - 122     | 3   | 15    | 7045763 |                   | 05/03/07 15:47     |
| Xylenes, total                                                 |            | 147       |   | ug/L  | 150        | 98%    | 79 - 130     | 4   | 16    | 7045763 |                   | 05/03/07 15:47     |
| Ethanol                                                        |            | 5300      |   | ug/L  | 5000       | 106%   | 41 - 166     | 13  | 43    | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 54.7      |   | ug/L  | 50.0       | 109%   | 62 - 142     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 54.7      |   | ug/L  | 50.0       | 109%   | 62 - 142     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: Dibromofluoromethane                                |            | 53.6      |   | ug/L  | 50.0       | 107%   | 78 - 123     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: Dibromofluoromethane                                |            | 53.6      |   | ug/L  | 50.0       | 107%   | 78 - 123     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: Toluene-d8                                          |            | 55.3      |   | ug/L  | 50.0       | 111%   | 79 - 120     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: Toluene-d8                                          |            | 55.3      |   | ug/L  | 50.0       | 111%   | 79 - 120     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: 4-Bromofluorobenzene                                |            | 52.1      |   | ug/L  | 50.0       | 104%   | 75 - 133     |     |       | 7045763 |                   | 05/03/07 15:47     |
| Surrogate: 4-Bromofluorobenzene                                |            | 52.1      |   | ug/L  | 50.0       | 104%   | 75 - 133     |     |       | 7045763 |                   | 05/03/07 15:47     |

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Project Number: SAP 100098  
Received: 04/24/07 08:00

## PROJECT QUALITY CONTROL DATA

### Matrix Spike

| Analyte                                                        | Orig. Val. | MS Val | Q | Units | Spike Conc | % Rec. | Target Range | Batch   | Sample Spiked | Analyzed Date/Time |
|----------------------------------------------------------------|------------|--------|---|-------|------------|--------|--------------|---------|---------------|--------------------|
| <b>Selected Volatile Organic Compounds by EPA Method 8260B</b> |            |        |   |       |            |        |              |         |               |                    |
| <b>7050457-MS1</b>                                             |            |        |   |       |            |        |              |         |               |                    |
| Benzene                                                        | ND         | 56.9   |   | ug/L  | 50.0       | 114%   | 74 - 130     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Ethylbenzene                                                   | ND         | 56.7   |   | ug/L  | 50.0       | 113%   | 70 - 143     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Methyl tert-Butyl Ether                                        | 8.28       | 58.6   |   | ug/L  | 50.0       | 101%   | 62 - 135     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Toluene                                                        | ND         | 55.3   |   | ug/L  | 50.0       | 111%   | 70 - 137     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Xylenes, total                                                 | ND         | 173    |   | ug/L  | 150        | 115%   | 62 - 147     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Ethanol                                                        | ND         | 6000   |   | ug/L  | 5000       | 120%   | 26 - 189     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 56.0   |   | ug/L  | 50.0       | 112%   | 62 - 142     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: 1,2-Dichloroethane-d4                               |            | 56.0   |   | ug/L  | 50.0       | 112%   | 62 - 142     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: Dibromofluoromethane                                |            | 54.8   |   | ug/L  | 50.0       | 110%   | 78 - 123     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: Dibromofluoromethane                                |            | 54.8   |   | ug/L  | 50.0       | 110%   | 78 - 123     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: Toluene-d8                                          |            | 54.0   |   | ug/L  | 50.0       | 108%   | 79 - 120     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: Toluene-d8                                          |            | 54.0   |   | ug/L  | 50.0       | 108%   | 79 - 120     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: 4-Bromofluorobenzene                                |            | 52.8   |   | ug/L  | 50.0       | 106%   | 75 - 133     | 7050457 | NQD2936-01    | 05/04/07 12:01     |
| Surrogate: 4-Bromofluorobenzene                                |            | 52.8   |   | ug/L  | 50.0       | 106%   | 75 - 133     | 7050457 | NQD2936-01    | 05/04/07 12:01     |

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Project Number: SAP 100098  
Received: 04/24/07 08:00

PROJECT QUALITY CONTROL DATA  
Matrix Spike Dup

| Analyte                                                 | Orig. Val. | Duplicate | Q | Units | Spike Conc | % Rec. | Target Range | RPD | Limit | Batch   | Sample Duplicated | Analyzed Date/Time |
|---------------------------------------------------------|------------|-----------|---|-------|------------|--------|--------------|-----|-------|---------|-------------------|--------------------|
| Selected Volatile Organic Compounds by EPA Method 8260B |            |           |   |       |            |        |              |     |       |         |                   |                    |
| <b>7050457-MSD1</b>                                     |            |           |   |       |            |        |              |     |       |         |                   |                    |
| Benzene                                                 | ND         | 61.8      |   | ug/L  | 50.0       | 124%   | 74 - 130     | 8   | 15    | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Ethylbenzene                                            | ND         | 60.4      |   | ug/L  | 50.0       | 121%   | 70 - 143     | 6   | 15    | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Methyl tert-Butyl Ether                                 | 8.28       | 64.0      |   | ug/L  | 50.0       | 111%   | 62 - 135     | 9   | 16    | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Toluene                                                 | ND         | 58.8      |   | ug/L  | 50.0       | 118%   | 70 - 137     | 6   | 15    | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Xylenes, total                                          | ND         | 184       |   | ug/L  | 150        | 123%   | 62 - 147     | 6   | 16    | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Ethanol                                                 | ND         | 7200      |   | ug/L  | 5000       | 144%   | 26 - 189     | 18  | 43    | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: 1,2-Dichloroethane-d4                        |            | 56.0      |   | ug/L  | 50.0       | 112%   | 62 - 142     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: 1,2-Dichloroethane-d4                        |            | 56.0      |   | ug/L  | 50.0       | 112%   | 62 - 142     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: Dibromofluoromethane                         |            | 54.5      |   | ug/L  | 50.0       | 109%   | 78 - 123     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: Dibromofluoromethane                         |            | 54.5      |   | ug/L  | 50.0       | 109%   | 78 - 123     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: Toluene-d8                                   |            | 53.9      |   | ug/L  | 50.0       | 108%   | 79 - 120     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: Toluene-d8                                   |            | 53.9      |   | ug/L  | 50.0       | 108%   | 79 - 120     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: 4-Bromofluorobenzene                         |            | 52.0      |   | ug/L  | 50.0       | 104%   | 75 - 133     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |
| Surrogate: 4-Bromofluorobenzene                         |            | 52.0      |   | ug/L  | 50.0       | 104%   | 75 - 133     |     |       | 7050457 | NQD2936-01        | 05/04/07 12:31     |



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Project Number: SAP 100098  
Received: 04/24/07 08:00

## CERTIFICATION SUMMARY

### TestAmerica - Nashville, TN

| Method      | Matrix | AIHA | Nelac | Rhode Island |
|-------------|--------|------|-------|--------------|
| SW846 8260B | Water  | N/A  | X     | N/A          |

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Project Number: SAP 100098  
Received: 04/24/07 08:00

## DATA QUALIFIERS AND DEFINITIONS

**LI** Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above acceptance limits.  
**MNRI** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.  
**P-HS** Sample container contained headspace.  
**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES

**COOLER RECEIPT FORM**



Cooler Received/Opened On: 4/24/07 @ 8:00

NQD2936

Tracking # 6499 (last 4 digits, FedEx)

Courier: FED EX IR Gun ID: 90942856

1. Temperature of rep. sample or temp blank when opened: 5.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) SR

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) JP

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here \_\_\_\_\_

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JP

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JP

I certify that I attached a label with the unique LIMS number to each container (initial) JP

21. Were there Non-Conformance issues at login? YES...NO Was a PIPE generated? YES...NO # 0



☒ TEST AMERICA - 2690 FOSTER CREGHTON, NASHVILLE, TN

PHONE 800-765-0980 FAX# 616-726-3404

☐ TA - 1008 W. NINTH AVE, KING OF PRUSSIA, PA 19406

24 HR TAT ONLY IF LAB IS LOCAL

☐ AIR TOXICS

☐ XENCO

☐ OTHER



# Shell Oil Products Chain Of Custody Record

NAME OF PERSON TO BILL: Jennifer Bothwell

☒ ENV. SERVICES

☐ SWP LA

☐ HSE (compliance)

☐ ENVIRONMENT

☐ NETWORK ENV. ITC

☐ BILL CONSULTANT

INCIDENT #

97349225

DATE: 4/19/07

PAGE: 1 of 1

☐ CHECK BOX TO VERIFY IF NO INCIDENT NUMBER APPLIES

PO NUMBER

SAP #

9 7 3 4 9 2 2 5

1 0 0 0 9 8

CONSULTANT COMPANY

Groundwater & Environmental Services, Inc.

ADDRESS

364 Littleton Road, Suite 4

CITY

Westford, MA 01886

TELEPHONE

978-392-0090

FAX

978-392-8583

E-MAIL

mhillinger@gesonline.com

SITE ADDRESS (Street and City)

2200 Pawtucket Ave, East Providence, RI

PROJECT CONTACT (Report to): Martin Hilfinger

CONSULTANT PROJECT NO. 1602334

SAMPLER NAME(S) (Print)

DAVID DEGENS

LAB USE ONLY

TURNAROUND TIME (STD IS BUSINESS DAYS / RUSH IS CALENDAR DAYS)

☒ STANDARD (10 DAY)

☐ 5 DAYS

☐ 3 DAYS

☐ 2 DAYS

☐ 24 HOURS

☐ RESULTS NEEDED ON WEEKEND

DELIVERABLES:

☒ LEVEL 1

☐ LEVEL 2

☐ LEVEL 3

☐ LEVEL 4

☐ OTHER (SPECIFY)

TEMPERATURE ON RECEIPT C\*

5.306

☐ PROVIDE LEDD DISK

SPECIAL INSTRUCTIONS OR NOTES:

☒ SHELL CONTRACT RATE APPLIES

☐ STATE REIMBURSEMENT RATE APPLIES

REQUESTED ANALYSIS (Please Include Method Number)

Container PID Readings  
or Laboratory Notes

NQD2936

05/08/07 23 59

| LAB<br>USE<br>ONLY | Field Sample Identification | SAMPLING |      | MATRIX | PRESERVATIVE |      |       |       |       |  | NO. OF<br>CONT. |
|--------------------|-----------------------------|----------|------|--------|--------------|------|-------|-------|-------|--|-----------------|
|                    |                             | DATE     | TIME |        | HCL          | HNO3 | H2SO4 | HClO4 | OTHER |  |                 |
|                    | MW5                         | 4/19/07  | 1425 | GW     | X            |      |       |       |       |  | 3               |
|                    | MW6                         |          | 1405 |        |              |      |       |       |       |  |                 |
|                    | MW7                         |          | 1350 |        |              |      |       |       |       |  |                 |
|                    | MW8                         |          | 1325 |        |              |      |       |       |       |  |                 |
|                    | TRIP BLANK                  |          |      |        |              |      |       |       |       |  | 1               |

Retransmitted by (Signature)

[Signature]

Retransmitted by (Signature)

[Signature]

Retransmitted by (Signature)

Received by (Signature)

[Signature]

Received by (Signature)

[Signature]

Received by (Signature)

[Signature]

Date

4/19/07

Date

4.23.07

Date

4/24/07

Time

1600

Time

14:00

Time

0800

CUSTODY SEAL NUMBER:

05/02/06 Revision