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# ANNUAL MONITORING REPORT

YEAR(S):  
2000

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# **WESTGATE SUBDIVISION**

## **GRIMES BATTERY & TASKER ROAD**

### **2000 Quarterly Groundwater Monitoring Report**

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**April 2001**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**SHELL EXPLORATION & PRODUCTION  
COMPANY  
HOUSTON, TEXAS**

**Prepared By:**

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## 1.0 INTRODUCTION

The subject site is located in west Hobbs, New Mexico. Assessment activities (Stage 1 Abatement activities) were conducted on developed and undeveloped property bordered by Tasker Road to the East, the Los Cuatro, Inc. property to the West, Sanger Road to the South, and Princess Jeanne Drive to the North. Assessment activities also included undeveloped property extending approximately 400 feet west of Cobb Drive. Based on the results of the assessment activities (both Stage 1 and proposed Stage 2 Abatement activities), quarterly groundwater monitoring and remediation activities are being performed.

The Grimes lease is an oil production property that has been in operation since the late 1920's. It consists of producing and injection wells, tank batteries, and associated flowlines. Oil and saltwater were produced from the wells on this lease and transported by flowlines to the Grimes battery. Prior to decommissioning of the Grimes battery in 1993, produced oil from the battery was transported south in a pipeline owned by Shell pipeline (currently known as Equilon Pipeline). The pipeline is decommissioned and terminates at the former battery location.

## 2.0 2000 GROUNDWATER MONITORING ACTIVITIES

Per NMOCD requirements, there are sixteen groundwater monitoring wells in the Westgate Subdivision that are being monitored quarterly for BTEX using USEPA Method 8260-B and annually for PAHs using USEPA Method 8270-C. Four of the sixteen wells have measurable free product hydrocarbons detected in them. These monitor wells are GMW-1, GMW-3B, GMW-5, and GMW-9.

### 2.1 LNAPL Thickness and Groundwater Elevations

Each quarter the sixteen monitor wells were measured from the top of the casing for depth to groundwater, depth to LNAPL, LNAPL thickness, and corrected groundwater elevations prior to sampling (Tables 1, 2, 3, 4). Four wells were found to have measurable free product hydrocarbons. They are GMW-1, GMW-3B, GMW-5, and GMW-9 (Tables 1, 2, 3, 4). Groundwater gradient and elevations for the first quarter are depicted in Figure Q1, for the second quarter in Figure Q4, for the third quarter in Figure Q7, and for the fourth quarter in Figure Q10. LNAPL thicknesses for the first quarter are depicted in Figure Q2, for the second quarter in Figure Q5, for the third quarter in Figure Q8, and for the fourth quarter in Figure Q11.

**Table 1. 1<sup>st</sup> Quarter 2000 LNAPL and Groundwater Elevations**  
Westgate Subdivision - Hobbs, NM

| MONITORING WELL | TOP OF CASING (feet) | DATE    | DEPTH TO GROUNDWATER (feet) | DEPTH TO LNAPL (feet) | LNAPL THICKNESS X 0.73 (feet) | CORRECTED GROUNDWATER (feet) |
|-----------------|----------------------|---------|-----------------------------|-----------------------|-------------------------------|------------------------------|
| GMW-1           | 3647.84              | 3/21/00 | 68.76                       | 68.75                 | 0.01                          | 3579.09                      |
| GMW-2           | 3648.51              | 3/21/00 | 66.02                       | ND                    | 0.00                          | 3582.49                      |
| GMW-3B          | 3648.26              | 3/21/00 | 68.65                       | 68.25                 | 0.29                          | 3579.90                      |
| GMW-4           | 3647.79              | 3/21/00 | 66.09                       | ND                    | 0.00                          | 3581.70                      |
| GMW-5           | 3648.41              | 3/21/00 | 71.81                       | 70.01                 | 1.31                          | 3577.91                      |
| GMW-6           | 3648.22              | 3/21/00 | 69.04                       | ND                    | 0.00                          | 3579.18                      |
| GMW-7           | 3644.98              | 3/21/00 | 66.56                       | ND                    | 0.00                          | 3578.42                      |
| GMW-8           | 3645.66              | 3/21/00 | 67.15                       | ND                    | 0.00                          | 3578.51                      |
| GMW-9           | 3646.27              | 3/21/00 | 67.03                       | 67.02                 | 0.01                          | 3579.25                      |
| GMW-10          | 3645.65              | 3/21/00 | 65.24                       | ND                    | 0.00                          | 3580.41                      |
| GMW-11          | 3644.07              | 3/21/00 | 64.54                       | ND                    | 0.00                          | 3579.53                      |
| TMW-1           | 3646.18              | 3/21/00 | 68.02                       | ND                    | 0.00                          | 3578.16                      |
| TMW-2           | 3643.94              | 3/21/00 | 66.90                       | ND                    | 0.00                          | 3577.04                      |
| TMW-3           | 3643.50              | 3/21/00 | 65.70                       | ND                    | 0.00                          | 3577.80                      |
| TMW-4           | 3643.69              | 3/21/00 | 66.63                       | ND                    | 0.00                          | 3577.06                      |
| TMW-5           | 3643.35              | 3/21/00 | 66.50                       | ND                    | 0.00                          | 3576.85                      |

**Table 2. 2<sup>nd</sup> Quarter 2000 LNAPL and Groundwater Elevations**  
Westgate Subdivision - Hobbs, NM

| MONITORING WELL | TOP OF CASING<br>(feet) | DATE    | DEPTH TO GROUNDWATER<br>(feet) | DEPTH TO LNAPL<br>(feet) | LNAPL THICKNESS<br>X 0.73 (feet) | CORRECTED GROUNDWATER<br>(feet) |
|-----------------|-------------------------|---------|--------------------------------|--------------------------|----------------------------------|---------------------------------|
| GMW-1           | 3647.84                 | 6/12/00 | 68.77                          | 68.75                    | 0.02                             | 3579.09                         |
| GMW-2           | 3648.51                 | 6/12/00 | 68.50                          | ND                       | 0.00                             | 3580.01                         |
| GMW-3B          | 3648.26                 | 6/12/00 | 69.20                          | 68.80                    | 0.29                             | 3579.35                         |
| GMW-4           | 3647.79                 | 6/12/00 | 68.45                          | ND                       | 0.00                             | 3579.34                         |
| GMW-5           | 3648.41                 | 6/12/00 | 72.38                          | 71.00                    | 1.01                             | 3577.04                         |
| GMW-6           | 3648.22                 | 6/12/00 | 69.20                          | ND                       | 0.00                             | 3579.02                         |
| GMW-7           | 3644.98                 | 6/12/00 | 67.10                          | ND                       | 0.00                             | 3577.88                         |
| GMW-8           | 3645.66                 | 6/12/00 | 67.30                          | ND                       | 0.00                             | 3578.36                         |
| GMW-9           | 3646.27                 | 6/12/00 | 68.50                          | 68.49                    | 0.01                             | 3577.78                         |
| GMW-10          | 3645.65                 | 6/12/00 | 65.80                          | ND                       | 0.00                             | 3579.85                         |
| GMW-11          | 3644.07                 | 6/12/00 | 64.72                          | ND                       | 0.00                             | 3579.35                         |
| TMW-1           | 3646.18                 | 6/12/00 | 68.21                          | ND                       | 0.00                             | 3577.97                         |
| TMW-2           | 3643.94                 | 6/12/00 | 66.35                          | ND                       | 0.00                             | 3577.59                         |
| TMW-3           | 3643.50                 | 6/12/00 | 65.90                          | ND                       | 0.00                             | 3577.60                         |
| TMW-4           | 3643.69                 | 6/12/00 | 66.81                          | ND                       | 0.00                             | 3576.88                         |
| TMW-5           | 3643.35                 | 6/12/00 | 67.83                          | ND                       | 0.00                             | 3575.52                         |

**Table 3. 3<sup>rd</sup> Quarter 2000 LNAPL and Groundwater Elevations**  
Westgate Subdivision - Hobbs, NM

| MONITORING WELL | TOP OF CASING<br>(feet) | DATE    | DEPTH TO GROUNDWATER<br>(feet) | DEPTH TO LNAPL<br>(feet) | LNAPL THICKNESS<br>X 0.73 (feet) | CORRECTED GROUNDWATER<br>(feet) |
|-----------------|-------------------------|---------|--------------------------------|--------------------------|----------------------------------|---------------------------------|
| GMW-1           | 3647.84                 | 9/20/00 | 68.76                          | 68.75                    | 0.007                            | 3579.09                         |
| GMW-2           | 3648.51                 | 9/20/00 | 68.67                          | ND                       | 0.00                             | 3579.84                         |
| GMW-3B          | 3648.26                 | 9/20/00 | 69.61                          | 69.20                    | 0.299                            | 3578.95                         |
| GMW-4           | 3647.79                 | 9/20/00 | 68.38                          | ND                       | 0.00                             | 3579.41                         |
| GMW-5           | 3648.41                 | 9/20/00 | 73.69                          | 72.88                    | 0.591                            | 3575.31                         |
| GMW-6           | 3648.22                 | 9/20/00 | 69.23                          | ND                       | 0.00                             | 3578.99                         |
| GMW-7           | 3644.98                 | 9/20/00 | 66.93                          | ND                       | 0.00                             | 3578.05                         |
| GMW-8           | 3645.66                 | 9/20/00 | 67.52                          | ND                       | 0.00                             | 3578.14                         |
| GMW-9           | 3646.27                 | 9/20/00 | 67.51                          | 67.50                    | 0.007                            | 3578.77                         |
| GMW-10          | 3645.65                 | 9/20/00 | 65.60                          | ND                       | 0.00                             | 3580.05                         |
| GMW-11          | 3644.07                 | 9/20/00 | 64.91                          | ND                       | 0.00                             | 3579.16                         |
| TMW-1           | 3646.18                 | 9/20/00 | 68.41                          | ND                       | 0.00                             | 3577.77                         |
| TMW-2           | 3643.94                 | 9/20/00 | 66.09                          | ND                       | 0.00                             | 3577.85                         |
| TMW-3           | 3643.50                 | 9/20/00 | 66.52                          | ND                       | 0.00                             | 3576.98                         |
| TMW-4           | 3643.69                 | 9/20/00 | 67.00                          | ND                       | 0.00                             | 3576.69                         |
| TMW-5           | 3643.35                 | 9/20/00 | 66.83                          | ND                       | 0.00                             | 3576.52                         |

**Table 4. 4<sup>th</sup> Quarter 2000 LNAPL and Groundwater Elevations**  
Westgate Subdivision - Hobbs, NM

| MONITORING WELL | TOP OF CASING<br>(feet) | DATE     | DEPTH TO GROUNDWATER<br>(feet) | DEPTH TO LNAPL<br>(feet) | LNAPL THICKNESS<br>X 0.73 (feet) | CORRECTED GROUNDWATER<br>(feet) |
|-----------------|-------------------------|----------|--------------------------------|--------------------------|----------------------------------|---------------------------------|
| GMW-1           | 3647.84                 | 12/20/00 | 68.71                          | 68.70                    | 0.007                            | 3579.13                         |
| GMW-2           | 3648.51                 | 12/20/00 | 68.15                          | ND                       | 0.00                             | 3580.36                         |
| GMW-3B          | 3648.26                 | 12/20/00 | 69.45                          | 68.77                    | 0.496                            | 3579.30                         |
| GMW-4           | 3647.79                 | 12/20/00 | 67.94                          | ND                       | 0.00                             | 3579.85                         |
| GMW-5           | 3648.41                 | 12/20/00 | 69.53                          | 68.15                    | 1.007                            | 3579.88                         |
| GMW-6           | 3648.22                 | 12/20/00 | 68.87                          | ND                       | 0.00                             | 3579.35                         |
| GMW-7           | 3644.98                 | 12/20/00 | 66.40                          | ND                       | 0.00                             | 3578.58                         |
| GMW-8           | 3645.66                 | 12/20/00 | 67.01                          | ND                       | 0.00                             | 3578.65                         |
| GMW-9           | 3646.27                 | 12/20/00 | 67.02                          | 67.01                    | 0.007                            | 3579.26                         |
| GMW-10          | 3645.65                 | 12/20/00 | 66.09                          | ND                       | 0.00                             | 3579.56                         |
| GMW-11          | 3644.07                 | 12/20/00 | 64.39                          | ND                       | 0.00                             | 3579.68                         |
| TMW-1           | 3646.18                 | 12/20/00 | 67.87                          | ND                       | 0.00                             | 3578.31                         |
| TMW-2           | 3643.94                 | 12/20/00 | 65.99                          | ND                       | 0.00                             | 3577.95                         |
| TMW-3           | 3643.50                 | 12/20/00 | 66.31                          | ND                       | 0.00                             | 3577.19                         |
| TMW-4           | 3643.69                 | 12/20/00 | 67.24                          | ND                       | 0.00                             | 3576.45                         |
| TMW-5           | 3643.35                 | 12/20/00 | 66.28                          | ND                       | 0.00                             | 3577.07                         |

## 2.2 Free Product Recovery

Downhole passive absorbing skimmers were installed in monitor wells GMW-1, GMW-3b, GMW-5 and GMW-9. Free product was removed periodically from each monitor well (Table 5). All recovered fluids were transported to the Sundance Services NMOC approved disposal facility near Eunice, NM for recycling and disposal.

**Table 5. 2000 Quarterly Product Recovery Volumes**

| Date                             | Location                      |                               |                               |                               |
|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
|                                  | GMW-1                         | GMW-3b                        | GMW-5                         | GMW-9                         |
|                                  | Product Recovery<br>(gallons) | Product Recovery<br>(gallons) | Product Recovery<br>(gallons) | Product Recovery<br>(gallons) |
| <b>First Quarter</b>             |                               |                               |                               |                               |
| 01/05/00                         | 0.50                          | 0.50                          | 1.00                          | 0.00                          |
| 01/13/00                         | 0.25                          | 0.50                          | 0.50                          |                               |
| 01/17/00                         | 0.00                          | 0.00                          | 1.00                          | 0.00                          |
| 01/21/00                         | 0.00                          | 0.00                          | 0.50                          | 0.00                          |
| 02/02/00                         | 0.00                          | 1.00                          |                               | 0.00                          |
| 02/08/00                         | 0.00                          | 0.00                          |                               |                               |
| 02/17/00                         | 0.00                          | 0.00                          |                               | 0.00                          |
| 02/23/00                         | 0.50                          | 0.25                          |                               | 0.00                          |
| 03/08/00                         | 0.50                          | 0.50                          |                               | 0.00                          |
| 03/17/00                         | 0.25                          | 0.50                          | 0.50                          | 0.00                          |
| <b>First Quarter<br/>Totals</b>  | 2.00                          | 3.25                          | 3.50                          | 0.00                          |
| <b>Year-to-Date<br/>Total</b>    | 2.00                          | 3.25                          | 3.50                          | 0.00                          |
| <b>Second Quarter</b>            |                               |                               |                               |                               |
| 04/05/00                         | 0.25                          | 0.25                          | 1.00                          | 0.00                          |
| 04/18/00                         | 0.25                          | 0.50                          | 1.00                          | 0.00                          |
| 05/01/00                         | 0.50                          | 0.25                          |                               | 0.00                          |
| 05/11/00                         | 0.50                          | 0.50                          |                               | 0.00                          |
| 05/23/00                         | 0.25                          | 0.75                          | 1.00                          | 0.00                          |
| 06/16/00                         | 0.25                          | 1.00                          | 1.00                          | 0.00                          |
| 06/21/00                         | 0.25                          | 0.25                          | 1.00                          | 0.00                          |
| 06/23/00                         | 0.25                          | 0.75                          | 1.00                          | 0.00                          |
| 06/28/00                         | 0.25                          | 0.25                          | 1.00                          | 0.00                          |
| 06/30/00                         | 0.25                          | 0.25                          | 1.00                          | 0.00                          |
| <b>Second Quarter<br/>Totals</b> | 3.00                          | 4.75                          | 8.00                          | 0.00                          |
| <b>Year-to-Date<br/>Total</b>    | 5.00                          | 8.00                          | 11.50                         | 0.00                          |

|                             |       |       |       |      |
|-----------------------------|-------|-------|-------|------|
| <b>Third Quarter</b>        |       |       |       |      |
| 07/05/00                    | 0.25  | 0.25  | 1.00  | 0.00 |
| 07/07/00                    | 0.25  | 0.25  | 0.75  | 0.00 |
| 07/12/00                    | 0.00  | 0.25  | 1.00  | 0.00 |
| 07/14/00                    | 0.00  | 0.25  | 1.00  | 0.00 |
| 07/19/00                    | 0.00  | 0.00  | 1.00  | 0.00 |
| 07/21/00                    | 0.00  | 0.00  | 1.00  | 0.00 |
| 07/26/00                    | 0.00  | 0.00  | 0.50  | 0.00 |
| 07/28/00                    | 0.00  | 0.25  | 0.00  | 0.00 |
| 08/02/00                    | 0.00  | 0.25  | 0.00  | 0.00 |
| 08/04/00                    | 0.00  | 0.00  | 0.00  | 0.00 |
| 08/09/00                    | 0.00  | 0.25  | 1.00  | 0.00 |
| 08/11/00                    | 0.50  | 0.25  |       | 0.00 |
| 08/16/00                    | 0.50  | 0.25  |       | 0.00 |
| 08/18/00                    | 0.25  | 0.25  |       | 0.00 |
| 08/23/00                    | 0.25  | 0.25  |       | 0.00 |
| 08/25/00                    | 0.25  | 0.00  |       | 0.00 |
| 08/30/00                    | 0.25  | 0.00  |       | 0.00 |
| 09/01/00                    | 0.25  | 0.00  |       | 0.00 |
| 09/06/00                    | 0.25  | 0.00  |       | 0.00 |
| 09/08/00                    | 0.25  |       |       | 0.00 |
| 09/10/00                    |       | 0.25  | 1.00  |      |
| 09/13/00                    | 0.25  | 0.00  | 1.00  | 0.00 |
| 09/15/00                    | 0.50  | 0.00  | 1.00  | 0.00 |
| 09/20/00                    | 0.50  | 0.00  | 1.00  |      |
| 09/22/00                    | 0.25  | 0.25  |       | 0.00 |
| 09/27/00                    | 0.25  | 0.25  | 1.00  | 0.00 |
| 09/29/00                    |       | 0.25  | 1.00  | 0.00 |
| <b>Third Quarter Totals</b> | 5.00  | 3.75  | 13.25 | 0.00 |
| <b>Year-to-Date Total</b>   | 10.00 | 11.75 | 24.75 | 0.00 |
| <b>Fourth Quarter</b>       |       |       |       |      |
| 10/04/00                    | 0.00  | 0.25  | 1.00  | 0.00 |
| 10/6/00                     | 0.00  | 0.25  | 1.00  | 0.00 |
| 10/11/00                    | 0.00  | 0.50  | 0.00  | 0.00 |
| 10/13/00                    | 0.25  | 0.50  | 0.00  | 0.00 |
| 10/18/00                    | 0.25  | 0.00  | 0.00  | 0.00 |
| 10/20/00                    | 0.25  | 0.00  | 1.00  | 0.00 |
| 10/25/00                    | 0.25  | 0.00  | 1.00  | 0.00 |
| 10/27/00                    | 0.00  | 0.00  | 1.00  | 0.00 |
| 11/1/00                     | 0.00  | 0.25  | 1.00  | 0.00 |

|                          |       |       |       |      |
|--------------------------|-------|-------|-------|------|
| 11/3/00                  | 0.00  | 0.25  | 1.00  | 0.00 |
| 11/8/00                  | 0.00  | 0.25  | 0.00  | 0.00 |
| 11/10/00                 | 0.00  | 0.25  | 0.00  | 0.00 |
| 11/15/00                 | 0.00  | 0.25  | 0.00  | 0.00 |
| 11/17/00                 | 0.25  | 0.25  | 0.00  | 0.00 |
| 11/22/00                 | 0.25  | 0.25  | 0.00  | 0.00 |
| 11/24/00                 | 0.25  | 0.00  | 1.00  | 0.00 |
| 11/29/00                 | 0.25  | 0.00  | 1.00  | 0.00 |
| 12/1/00                  | 0.50  | 0.00  | 1.00  | 0.00 |
| 12/6/00                  | 0.50  | 0.00  | 1.00  | 0.00 |
| 12/8/00                  | 0.25  | 0.00  | 1.00  | 0.00 |
| 12/12/00                 |       |       | 1.00  |      |
| 12/13/00                 | 0.25  | 0.00  |       | 0.00 |
| 12/15/00                 | 0.25  | 0.25  | 1.00  | 0.00 |
| 12/20/00                 | 0.00  | 0.25  | 1.00  | 0.00 |
| 12/22/00                 | 0.00  | 0.25  | 1.00  | 0.00 |
| 12/27/00                 | 0.00  | 0.25  | 1.00  | 0.00 |
| 12/29/00                 | 0.50  | 0.25  | 1.00  | 0.50 |
| Fourth Quarter<br>Totals | 4.25  | 4.50  | 18.00 | 0.50 |
| Year-to-Date<br>Total    | 14.25 | 16.25 | 42.75 | 0.50 |

## 2.3 Purging and Sampling Activities

Each quarter all sixteen monitor wells were measured from the top of the casing for depth to groundwater, depth to LNAPL, LNAPL thickness, and corrected groundwater elevations prior to sampling (Table 1). All purged fluids were drummed, transported, and disposed of at Sundance Services NMOCD approved disposal facility near Eunice, NM for recycling and disposal.

The groundwater samples were sent to Trace Analysis Laboratories in Lubbock, TX to be analyzed for BTEX (USEPA Method 8260-B) and PAHs (USEPA Method 8270C). The results per quarter per monitor well are summarized in Tables 6, 7, 8 and 9. Laboratory analytical results, QA/QC, and chain-of-custody reports for the groundwater samples collected and analyzed are included in Appendix I through Appendix IV.

**Table 6. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2000 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX: S-8260B Method**

### GMW-2

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | Result | Detection Limit | Sample No.                 | Date Taken | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143080                     | 3/21/00    | <2.00  | 2               | 148006                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143080                     | 3/21/00    | 2.24   | 2               | 148006                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143080                     | 3/21/00    | <2.00  | 2               | 148006                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143080                     | 3/21/00    | <2.00  | 2               | 148006                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143080                     | 3/21/00    | <2.00  | 2               | 148006                     | 6/12/00    | <2.00  | 2               |

### GMW-4

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | Result | Detection Limit | Sample No.                 | Date Taken | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143077                     | 3/21/00    | <2.00  | 2               | 148007                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143077                     | 3/21/00    | <2.00  | 2               | 148007                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143077                     | 3/21/00    | <2.00  | 2               | 148007                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143077                     | 3/21/00    | <2.00  | 2               | 148007                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143077                     | 3/21/00    | <2.00  | 2               | 148007                     | 6/12/00    | <2.00  | 2               |

### GMW-6

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143078                     | 3/21/00    | <2.00  | 2               | 148008                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143078                     | 3/21/00    | <2.00  | 2               | 148008                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143078                     | 3/21/00    | <2.00  | 2               | 148008                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143078                     | 3/21/00    | <2.00  | 2               | 148008                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143078                     | 3/21/00    | <2.00  | 2               | 148008                     | 6/12/00    | <2.00  | 2               |

### GMW-7

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143075                     | 3/21/00    | <2.00  | 2               | 148009                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143075                     | 3/21/00    | <2.00  | 2               | 148009                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143075                     | 3/21/00    | <2.00  | 2               | 148009                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143075                     | 3/21/00    | <2.00  | 2               | 148009                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143075                     | 3/21/00    | <2.00  | 2               | 148009                     | 6/12/00    | <2.00  | 2               |

### GMW-8

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143076                     | 3/21/00    | <2.00  | 2               | 148010                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143076                     | 3/21/00    | <2.00  | 2               | 148010                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143076                     | 3/21/00    | <2.00  | 2               | 148010                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143076                     | 3/21/00    | <2.00  | 2               | 148010                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143076                     | 3/21/00    | <2.00  | 2               | 148010                     | 6/12/00    | <2.00  | 2               |

### GMW-10

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143079                     | 3/21/00    | <2.00  | 2               | 148011                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143079                     | 3/21/00    | <2.00  | 2               | 148011                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143079                     | 3/21/00    | <2.00  | 2               | 148011                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143079                     | 3/21/00    | <2.00  | 2               | 148011                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143079                     | 3/21/00    | <2.00  | 2               | 148011                     | 6/12/00    | <2.00  | 2               |

**GMW-11**

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143074                     | 3/21/00    | <2.00  | 2               | 148012                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143074                     | 3/21/00    | 3.28   | 2               | 148012                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143074                     | 3/21/00    | <2.00  | 2               | 148012                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143074                     | 3/21/00    | <2.00  | 2               | 148012                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143074                     | 3/21/00    | <2.00  | 2               | 148012                     | 6/12/00    | <2.00  | 2               |

## Table 7. 1<sup>st</sup> & 2<sup>nd</sup> Quarter 2000 Sampling Reports

### Tasker Monitor Wells - Westgate Subdivision BTEX: S-8260B Method

#### TMW-1

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143073                     | 3/21/00    | <2.00  | 2               | 148014                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143073                     | 3/21/00    | 4.09   | 2               | 148014                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143073                     | 3/21/00    | <2.00  | 2               | 148014                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143073                     | 3/21/00    | <2.00  | 2               | 148014                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143073                     | 3/21/00    | <2.00  | 2               | 148014                     | 6/12/00    | <2.00  | 2               |

#### TMW-2

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143072                     | 3/21/00    | <2.00  | 2               | 148015                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143072                     | 3/21/00    | 4.42   | 2               | 148015                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143072                     | 3/21/00    | <2.00  | 2               | 148015                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143072                     | 3/21/00    | <2.00  | 2               | 148015                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143072                     | 3/21/00    | <2.00  | 2               | 148015                     | 6/12/00    | <2.00  | 2               |

#### TMW-3

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143071                     | 3/21/00    | <2.00  | 2               | 148016                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143071                     | 3/21/00    | 35.32  | 2               | 148016                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143071                     | 3/21/00    | 9.95   | 2               | 148016                     | 6/12/00    | <2.00  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143071                     | 3/21/00    | 19.97  | 2               | 148016                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143071                     | 3/21/00    | 8.76   | 2               | 148016                     | 6/12/00    | <2.00  | 2               |

### TMW-4

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143070                     | 3/21/00    | <2.00  | 2               | 148017                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143070                     | 3/21/00    | 6.38   | 2               | 148017                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143070                     | 3/21/00    | <2.00  | 2               | 148017                     | 6/12/00    | 3.92   | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143070                     | 3/21/00    | <2.00  | 2               | 148017                     | 6/12/00    | <2.00  | 2               |
| o-Xylene     | Water  | S-8260B      | 143070                     | 3/21/00    | <2.00  | 2               | 148017                     | 6/12/00    | <2.00  | 2               |

### TMW-5

| Analyte      | Matrix | Method Taken | 1 <sup>st</sup> Quarter    |            |        |                 | 2 <sup>nd</sup> Quarter    |            |        |                 |
|--------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|              |        |              | Order ID Number: A00032303 |            |        |                 | Order ID Number: A00061409 |            |        |                 |
|              |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|              |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene      | Water  | S-8260B      | 143069                     | 3/21/00    | 2.14   | 2               | 148018                     | 6/12/00    | <2.00  | 2               |
| Toluene      | Water  | S-8260B      | 143069                     | 3/21/00    | <2.00  | 2               | 148018                     | 6/12/00    | <2.00  | 2               |
| Ethylbenzene | Water  | S-8260B      | 143069                     | 3/21/00    | 111    | 2               | 148018                     | 6/12/00    | 86.60  | 2               |
| M,p-Xylene   | Water  | S-8260B      | 143069                     | 3/21/00    | <2.00  | 2               | 148018                     | 6/12/00    | 2.11   | 2               |
| o-Xylene     | Water  | S-8260B      | 143069                     | 3/21/00    | 2.43   | 2               | 148018                     | 6/12/00    | <2.00  | 2               |

**Table 8. 3<sup>rd</sup> & 4<sup>th</sup> Quarter 2000 Sampling Reports**

**Grimes Monitor Wells - Westgate Subdivision  
BTEX: S-8260B Method and PAH: S-8270C**

**GMW-2**

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154055                     | 9/21/00    | <2.00  | 2               | 161330                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154055                     | 9/21/00    | <2.00  | 2               | 161330                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154055                     | 9/21/00    | <2.00  | 2               | 161330                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154055                     | 9/21/00    | <2.00  | 2               | 161330                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154055                     | 9/21/00    | <2.00  | 2               | 161330                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161330                     | 12/20/00   | <0.005 | 0.005           |

**GMW-4**

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 157085                     | 10/25/00   | <1.00  | 2               | 161331                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 157085                     | 10/25/00   | <1.00  | 2               | 161331                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 157085                     | 10/25/00   | <1.00  | 2               | 161331                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 157085                     | 10/25/00   | <1.00  | 2               | 161331                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 157085                     | 10/25/00   | <1.00  | 2               | 161331                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161331                     | 12/20/00   | <0.005 | 0.005           |

GMW-6

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154057                     | 9/21/00    | <2.00  | 2               | 161332                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154057                     | 9/21/00    | <2.00  | 2               | 161332                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154057                     | 9/21/00    | <2.00  | 2               | 161332                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154057                     | 9/21/00    | <2.00  | 2               | 161332                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154057                     | 9/21/00    | <2.00  | 2               | 161332                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161332                     | 12/20/00   | <0.005 | 0.005           |

GMW-7

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154058                     | 9/21/00    | <2.00  | 2               | 161333                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154058                     | 9/21/00    | <2.00  | 2               | 161333                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154058                     | 9/21/00    | <2.00  | 2               | 161333                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154058                     | 9/21/00    | <2.00  | 2               | 161333                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154058                     | 9/21/00    | <2.00  | 2               | 161333                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161333                     | 12/20/00   | <0.005 | 0.005           |

GMW-8

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154059                     | 9/21/00    | <2.00  | 2               | 161334                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154059                     | 9/21/00    | <2.00  | 2               | 161334                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154059                     | 9/21/00    | <2.00  | 2               | 161334                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154059                     | 9/21/00    | <2.00  | 2               | 161334                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154059                     | 9/21/00    | <2.00  | 2               | 161334                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161334                     | 12/20/00   | <0.005 | 0.005           |

GMW-10

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154060                     | 9/21/00    | <2.00  | 2               | 161335                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154060                     | 9/21/00    | <2.00  | 2               | 161335                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154060                     | 9/21/00    | <2.00  | 2               | 161335                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154060                     | 9/21/00    | <2.00  | 2               | 161335                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154060                     | 9/21/00    | <2.00  | 2               | 161335                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161335                     | 12/20/00   | <0.005 | 0.005           |

GMW-11

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154061                     | 9/21/00    | <2.00  | 2               | 161336                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154061                     | 9/21/00    | <2.00  | 2               | 161336                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154061                     | 9/21/00    | <2.00  | 2               | 161336                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154061                     | 9/21/00    | <2.00  | 2               | 161336                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154061                     | 9/21/00    | <2.00  | 2               | 161336                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161336                     | 12/20/00   | <0.005 | 0.005           |

Table 9. 3<sup>rd</sup> & 4<sup>th</sup> Quarter 2000 Sampling Reports

Tasker Monitor Wells - Westgate Subdivision  
BTEX: S-8260B Method and PAH: S-8270C

TMW-1

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154054                     | 9/20/00    | <2.00  | 2               | 161325                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154054                     | 9/20/00    | <2.00  | 2               | 161325                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154054                     | 9/20/00    | <2.00  | 2               | 161325                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154054                     | 9/20/00    | <2.00  | 2               | 161325                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154054                     | 9/20/00    | <2.00  | 2               | 161325                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161325                     | 12/20/00   | <0.005 | 0.005           |

TMW-2

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154053                     | 9/20/00    | <2.00  | 2               | 161326                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 154053                     | 9/20/00    | <2.00  | 2               | 161326                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154053                     | 9/20/00    | <2.00  | 2               | 161326                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154053                     | 9/20/00    | <2.00  | 2               | 161326                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154053                     | 9/20/00    | <2.00  | 2               | 161326                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161326                     | 12/20/00   | <0.005 | 0.005           |

TMW-3

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 157084                     | 10/25/00   | <1.00  | 2               | 161327                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 157084                     | 10/25/00   | <1.00  | 2               | 161327                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 157084                     | 10/25/00   | <1.00  | 2               | 161327                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 157084                     | 10/25/00   | <1.00  | 2               | 161327                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 157084                     | 10/25/00   | <1.00  | 2               | 161327                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161327                     | 12/20/00   | <0.005 | 0.005           |

TMW-4

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 157083                     | 10/25/00   | <1.00  | 2               | 161328                     | 12/20/00   | <1.00  | 2               |
| Toluene                | Water  | S-8260B      | 157083                     | 10/25/00   | <1.00  | 2               | 161328                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 157083                     | 10/25/00   | <1.00  | 2               | 161328                     | 12/20/00   | <1.00  | 2               |
| M,p-Xylene             | Water  | S-8260B      | 157083                     | 10/25/00   | <1.00  | 2               | 161328                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 157083                     | 10/25/00   | <1.00  | 2               | 161328                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161328                     | 12/20/00   | <0.005 | 0.005           |

### TMW-5

| Analyte                | Matrix | Method Taken | 3 <sup>rd</sup> Quarter    |            |        |                 | 4 <sup>th</sup> Quarter    |            |        |                 |
|------------------------|--------|--------------|----------------------------|------------|--------|-----------------|----------------------------|------------|--------|-----------------|
|                        |        |              | Order ID Number: A00092209 |            |        |                 | Order ID Number: A00122118 |            |        |                 |
|                        |        |              | Sample No.                 | Date Taken | µg/L   |                 | Sample No.                 | Date Taken | µg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Benzene                | Water  | S-8260B      | 154050                     | 9/20/00    | <2.00  | 2               | 161329                     | 12/20/00   | 1.48   | 2               |
| Toluene                | Water  | S-8260B      | 154050                     | 9/20/00    | <2.00  | 2               | 161329                     | 12/20/00   | <1.00  | 2               |
| Ethylbenzene           | Water  | S-8260B      | 154050                     | 9/20/00    | 22.78  | 2               | 161329                     | 12/20/00   | 75.2   | 2               |
| M,p-Xylene             | Water  | S-8260B      | 154050                     | 9/20/00    | <2.00  | 2               | 161329                     | 12/20/00   | <1.00  | 2               |
| o-Xylene               | Water  | S-8260B      | 154050                     | 9/20/00    | <2.00  | 2               | 161329                     | 12/20/00   | <1.00  | 2               |
| Analyte                | Matrix | Method Taken | Sample No.                 | Date Taken | mg/L   |                 | Sample No.                 | Date Taken | mg/L   |                 |
|                        |        |              |                            |            | Result | Detection Limit |                            |            | Result | Detection Limit |
| Naphthalene            | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthylene         | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Acenaphthene           | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Fluorene               | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Phenanthrene           | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Anthracene             | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Fluoranthene           | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Pyrene                 | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]anthracene     | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Chrysene               | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[b]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[k]fluoranthene   | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[a]pyrene         | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Indeno[1,2,3-cd]pyrene | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Dibenz[a,h]anthracene  | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |
| Benzo[g,h,i]perylene   | Water  | S-8270C      |                            |            |        |                 | 161329                     | 12/20/00   | <0.005 | 0.005           |

In the first quarter of 2000, toluene was detected in GMW-2, GMW-11, TMW-1, TMW-2, TMW-3, and TMW-4, at concentrations of 2.4 ug/L, 3.28 ug/L, 4.09 ug/L, 4.42 ug/L, 35.32 ug/L, 6.38 ug/L, respectively. Ethylbenzene was detected in TMW-3 and TMW-5 at concentrations of 9.95 ug/L and 111 ug/L. There was M,p-xylene and o-xylene detected at 19.97 ug/L and 8.76 ug/L in TMW-3. O-xylene was detected in TMW-5 at concentration of 2.43. All other analytes tested non-detect in all of the wells. These results are unusual as when compared to previous 1999 quarterly data and subsequent 2000 quarterly data. One possibility is that cross contamination occurred from the sampling equipment, although that is unknown, it is a potential explanation considering the rest of the quarterly data for 2000 showed non-detect in the wells except for TMW-4 in the second quarter and TMW-5 in the second, third, and fourth quarters. All other analytes tested non-detect in all of the wells. Figure Q3 is and isopleth map of total BTEX concentrations detected in the groundwater samples.

The second quarter results detected ethylbenzene in TMW-4 and TMW-5 at concentrations of 3.92 ug/L and 86.60 ug/L, respectively. M,p-xylene at a concentration of 2.11 ug/L was detected in TMW-5. All other analytes tested non-detect in all of the wells. Figure Q6 is and isopleth map of total BTEX concentrations detected in the groundwater samples.

In the third quarter ethylbenzene was detected in TMW-5 at a concentration of 22.78 ug/L. All other analytes tested non-detect in all of the wells. Figure Q9 is an isopleth map of total BTEX concentrations detected in the groundwater samples.

In the fourth quarter, benzene and ethylbenzene was detected in TMW-5 at concentrations of 1.48 ug/L and 75.2 ug/L, respectively. All other analytes tested non-detect in all of the wells. Figure Q12 is an isopleth map of total BTEX concentrations detected in the groundwater samples.

### 3.0 CONCLUSION

All monitor wells will be sampled quarterly for four quarters in year 2000. Groundwater samples will be analyzed for BTEX using USEPA Method 8260-B for each of four quarters and PAHs annually using USEPA Method 8270-C. Based on sample results for one year (four quarters), sampling frequency will be reviewed and may be revised.

Sampling will be discontinued when eight quarters of sample results indicate analyte concentrations are below New Mexico Water Quality Control Commission, Title 20, Chapter 6, part 2 (20 NMAC 6.2 Standards). If no 20 NMAC 6.2 standard is available for a detected analyte, USEPA standards will be used. Free product recovery will continue until no free product is recovered for an extended period of time.

Sample results will be submitted to NMOCD annually on April 1. All recovered fluids will be recycled and disposed of at an NMOCD approved facility.

Per discussions with the NMOCD in early 2000, it was agreed that Shell would not be required to sample any monitor wells that have free product until such time that free product is no longer detected in the wells. These wells would only be sampled quarterly when no measurable free product exists.

# **APPENDIX I**

---

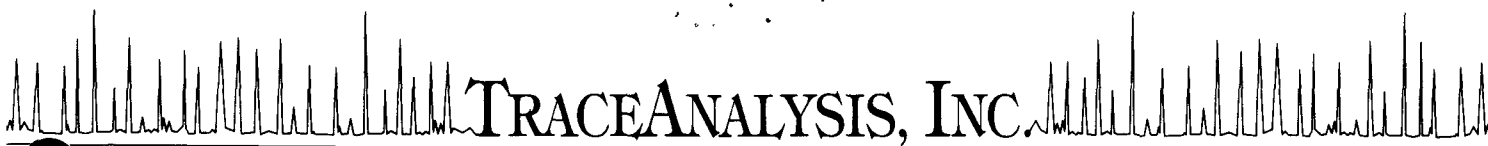
**TRACE ANALYSIS, INC.**  
**Laboratory Results**  
**1<sup>st</sup> Quarter 2000**

**Westgate Subdivision**  
**Grimes Battery & Tasker Road**

**April 2001**

**Shell Exploration & Production Company**  
**Houston, Texas**

**Prepared by:**  
**BBC International, Inc.**



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## Analytical and Quality Control Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 06/28/00  
Page: # 1

**CORRECTED**

Project Name: Shell Westgate  
Project Location: Hobbs, NM  
Order ID Number: A00032303

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

| Sample Number | Sample Description | Matrix | Date Taken | Time Taken | Date Received |
|---------------|--------------------|--------|------------|------------|---------------|
| 143069        | TMW-5              | Water  | 03/21/00   | 9:30       | 03/23/00      |
| 143070        | TMW-4              | Water  | 03/21/00   | 10:49      | 03/23/00      |
| 143071        | TMW-3              | Water  | 03/21/00   | 11:20      | 03/23/00      |
| 143072        | TMW-2              | Water  | 03/21/00   | 11:45      | 03/23/00      |
| 143073        | TMW-1              | Water  | 03/21/00   | 12:15      | 03/23/00      |
| 143074        | GMW-11             | Water  | 03/21/00   | 1:34       | 03/23/00      |
| 143075        | GMW-7              | Water  | 03/21/00   | 2:05       | 03/23/00      |
| 143076        | GMW-8              | Water  | 03/21/00   | 2:30       | 03/23/00      |
| 143077        | GMW-4              | Water  | 03/21/00   | 3:00       | 03/23/00      |
| 143078        | GMW-6              | Water  | 03/21/00   | 3:30       | 03/23/00      |
| 143079        | GMW-10             | Water  | 03/21/00   | 4:22       | 03/23/00      |
| 143080        | GMW-2              | Water  | 03/21/00   | 5:00       | 03/23/00      |
| 143116        | Trip Blank         | Water  | 03/21/00   |            | 03/23/00      |

This Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch (es) in which your sample (s) were analyzed.

This report shall not be reproduced except in its entirety, without written approval of the laboratory.

These results represent only the samples received in the laboratory.

This report consists of a total of 17 pages.

Corrections: 1) The sample description SMW was replaced with GMW.

  
Dr. Blair Leftwich  
Director

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
Page #7

Corrected

Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-11\* Sample Number: 143074

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Prep<br>Analyst | QC<br>Batch # | Reporting<br>Batch # | Limit  |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|-----------------|---------------|----------------------|--------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| Toluene                    |      | 3.28    | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| Surr. Dibromofluoromethane |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 72-128 |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 91-107 |
| Surr. 4-Bromofluorobenzene |      | 97      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 74-106 |

\*Sample description SMW replaced with GMW

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-7\*

Sample Number: 143075

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 102     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 97      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

\*Sample description SMW replaced with GMW.

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-8\*

Sample Number: 143076

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 102     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 98      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

\*Sample description SMW replaced with GMW.

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-4\*

Sample Number: 143077

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 103     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 97      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

\*Sample description SMW replaced with GMW.

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-6\*

Sample Number: 143078

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Prep<br>Analyst | QC<br>Batch # | Reporting<br>Batch # | Limit  |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|-----------------|---------------|----------------------|--------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 2      |
| Surr. Dibromofluoromethane |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 72-128 |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 91-107 |
| Surr. 4-Bromofluorobenzene |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG              | 1495          | 1783                 | 74-106 |

\*Sample description SMW replaced with GMW.

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-10\*

Sample Number: 143079

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 107     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 98      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

\*Sample description SMW replaced with GMW.

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 6/28/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: GMW-2\*

Sample Number: 143080

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | 2.24    | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 106     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

\*Sample description SMW replaced with GMW.

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

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888•588•3443  
E-Mail: lab@traceanalysis.com

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FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 04/20/00  
Page: # 1

Project Name: Shell Westgate  
Project Location: Hobbs, NM  
Order ID Number: A00032303

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

| Sample Number | Sample Description | Matrix | Date Taken | Time Taken | Date Received |
|---------------|--------------------|--------|------------|------------|---------------|
| 143069        | TMW-5              | Water  | 03/21/00   | 9:30       | 03/23/00      |
| 143070        | TMW-4              | Water  | 03/21/00   | 10:49      | 03/23/00      |
| 143071        | TMW-3              | Water  | 03/21/00   | 11:20      | 03/23/00      |
| 143072        | TMW-2              | Water  | 03/21/00   | 11:45      | 03/23/00      |
| 143073        | TMW-1              | Water  | 03/21/00   | 12:15      | 03/23/00      |
| 143074        | SMW-11             | Water  | 03/21/00   | 1:34       | 03/23/00      |
| 143075        | SMW-7              | Water  | 03/21/00   | 2:05       | 03/23/00      |
| 143076        | SMW-8              | Water  | 03/21/00   | 2:30       | 03/23/00      |
| 143077        | SMW-4              | Water  | 03/21/00   | 3:00       | 03/23/00      |
| 143078        | SMW-6              | Water  | 03/21/00   | 3:30       | 03/23/00      |
| 143079        | SMW-10             | Water  | 03/21/00   | 4:22       | 03/23/00      |
| 143080        | SMW-2              | Water  | 03/21/00   | 5:00       | 03/23/00      |
| 143116        | Trip Blank         | Water  | 03/21/00   |            | 03/23/00      |

This Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch (es) in which your sample (s) were analyzed.

This report shall not be reproduced except in its entirety, without written approval of the laboratory.

These results represent only the samples received in the laboratory.

This report consists of a total of 17 pages.

  
Dr. Blair Leftwich  
Director

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
Page # 2

Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: TMW-5

Sample Number: 143069

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Prep<br>Analyst | QC<br>Batch # | Reporting<br>Batch # | Limit  |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|-----------------|---------------|----------------------|--------|
| Benzene                    |      | 2.14    | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| Ethylbenzene               |      | 111     | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| o-xylene                   |      | 2.43    | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| Surr. Dibromofluoromethane |      | 106     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 72-128 |
| Surr. Toluene-d8           |      | 102     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 91-107 |
| Surr. 4-Bromofluorobenzene |      | 104     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 74-106 |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: TMW-4

Sample Number: 143070

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| Toluene                    |      | 6.38    | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| Surr. Dibromofluoromethane |      | 106     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 72-128             |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 102     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: TMW-3

Sample Number: 143071

| Parameter                  | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Prep<br>Analyst | QC<br>Batch # | Reporting<br>Batch # | Limit  |
|----------------------------|---------|-------|----------------------|------------------|------------------|-----------------|---------------|----------------------|--------|
| Benzene                    | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| Toluene                    | 35.32   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| Ethylbenzene               | 9.95    | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| m,p-xylene                 | 19.97   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| o-xylene                   | 8.76    | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 2      |
| Surr. Dibromofluoromethane | 106     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 72-128 |
| Surr. Toluene-d8           | 101     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 91-107 |
| Surr. 4-Bromofluorobenzene | 104     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG              | 1491          | 1773                 | 74-106 |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: TMW-2

Sample Number: 143072

| Parameter                  | Flag | Results | Units | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | Reporting Limit |
|----------------------------|------|---------|-------|-------------------|---------------|---------------|---------|--------------|------------|-----------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 2               |
| Toluene                    |      | 4.42    | ug/L  | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 2               |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 2               |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 2               |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 2               |
| Surr. Dibromofluoromethane |      | 108     | %     | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 72-128          |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 91-107          |
| Surr. 4-Bromofluorobenzene |      | 103     | %     | S-8260B           | 03/28/00      | 03/28/00      | JG      | 1491         | 1773       | 74-106          |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: TMW-1

Sample Number: 143073

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | 4.09    | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-11

Sample Number: 143074

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | 3.28    | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 97      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-7

Sample Number: 143075

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 102     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 97      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-8

Sample Number: 143076

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 102     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 98      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-4

Sample Number: 143077

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 103     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 97      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-6

Sample Number: 143078

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 100     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-10

Sample Number: 143079

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 107     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 98      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: SMW-2

Sample Number: 143080

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | 2.24    | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 106     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |

# Analytical Results Report

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032303  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Field Code: Trip Blank

Sample Number: 143116

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 2                  |
| Toluene                    |      | 2.21    | ug/L  | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 2                  |
| Surr. Dibromofluoromethane |      | 101     | %     | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 72-128             |
| Surr. Toluene-d8           |      | 100     | %     | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 99      | %     | S-8260B              | 04/04/00         | 04/0400          | JG      | 1581            | 1889          | 74-106             |

# Quality Control Report Blanks

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
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Order ID Number: A00032304  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

| Parameter                  | Flag | Results | Units | Analytical<br>Method | Date<br>Prepared | Date<br>Analyzed | Analyst | Prep<br>Batch # | QC<br>Batch # | Reporting<br>Limit |
|----------------------------|------|---------|-------|----------------------|------------------|------------------|---------|-----------------|---------------|--------------------|
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 2                  |
| Surr. Dibromofluoromethane |      | 99      | %     | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 100     | %     | S-8260B              | 03/28/00         | 03/28/00         | JG      | 1491            | 1773          | 74-106             |
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 2                  |
| Surr. Dibromofluoromethane |      | 98      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 72-128             |
| Surr. Toluene-d8           |      | 99      | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 101     | %     | S-8260B              | 03/29/00         | 03/29/00         | JG      | 1495            | 1783          | 74-106             |
| Benzene                    |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 2                  |
| Toluene                    |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 2                  |
| Ethylbenzene               |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 2                  |
| m,p-xylene                 |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 2                  |
| o-xylene                   |      | <2.00   | ug/L  | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 2                  |
| Surr. Dibromofluoromethane |      | 104     | %     | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 72-128             |
| Surr. Toluene-d8           |      | 98      | %     | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 91-107             |
| Surr. 4-Bromofluorobenzene |      | 98      | %     | S-8260B              | 04/04/00         | 04/04/00         | JG      | 1581            | 1889          | 74-106             |

# Quality Control Report

## Continuing Calibration Verification Standard

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 04/20/00  
Page #16

Order ID Number: A00032304  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

| Parameter                  | Flag | CCVS<br>TRUE<br>Concentration | Units | CCVS<br>Found<br>Concentration | CCVS<br>Percent<br>Recovery | Date<br>Analyzed | Run<br>Batch # |
|----------------------------|------|-------------------------------|-------|--------------------------------|-----------------------------|------------------|----------------|
| Vinyl chloride             |      | 100                           | ug/L  | 109                            | 109                         | 03/28/00         | 1773           |
| 1,1-Dichloroethene         |      | 100                           | ug/L  | 110                            | 110                         | 03/28/00         | 1773           |
| Chloroform                 |      | 100                           | ug/L  | 103                            | 103                         | 03/28/00         | 1773           |
| 1,2-Dichloropropane        |      | 100                           | ug/L  | 105                            | 105                         | 03/28/00         | 1773           |
| Toluene                    |      | 100                           | ug/L  | 103                            | 103                         | 03/28/00         | 1773           |
| Chlorobenzene              |      | 100                           | ug/L  | 107                            | 107                         | 03/28/00         | 1773           |
| Ethylbenzene               |      | 100                           | ug/L  | 105                            | 105                         | 03/28/00         | 1773           |
| Surr. Dibromofluoromethane |      | 50                            | %     | 48.96                          | 98                          | 03/28/00         | 1773           |
| Surr. Toluene-d8           |      | 50                            | %     | 49.90                          | 100                         | 03/28/00         | 1773           |
| Surr. 4-Bromofluorobenzene |      | 50                            | %     | 50.13                          | 100                         | 03/28/00         | 1773           |
| Vinyl chloride             |      | 100                           | ug/L  | 115                            | 115                         | 03/29/00         | 1783           |
| 1,1-Dichloroethene         |      | 100                           | ug/L  | 111                            | 111                         | 03/29/00         | 1783           |
| Chloroform                 |      | 100                           | ug/L  | 107                            | 107                         | 03/29/00         | 1783           |
| 1,2-Dichloropropane        |      | 100                           | ug/L  | 103                            | 103                         | 03/29/00         | 1783           |
| Toluene                    |      | 100                           | ug/L  | 103                            | 103                         | 03/29/00         | 1783           |
| Chlorobenzene              |      | 100                           | ug/L  | 106                            | 106                         | 03/29/00         | 1783           |
| Ethylbenzene               |      | 100                           | ug/L  | 105                            | 105                         | 03/29/00         | 1783           |
| Surr. Dibromofluoromethane |      | 50                            | %     | 50.59                          | 101                         | 03/29/00         | 1783           |
| Surr. Toluene-d8           |      | 50                            | %     | 49.94                          | 100                         | 03/29/00         | 1783           |
| Surr. 4-Bromofluorobenzene |      | 50                            | %     | 51.99                          | 104                         | 03/29/00         | 1783           |
| Vinyl chloride             |      | 100                           | ug/L  | 109                            | 109                         | 03/29/00         | 1763           |
| 1,1-Dichloroethene         |      | 100                           | ug/L  | 110                            | 110                         | 04/04/00         | 1889           |
| Chloroform                 |      | 100                           | ug/L  | 111                            | 111                         | 04/04/00         | 1889           |
| 1,2-Dichloropropane        |      | 100                           | ug/L  | 105                            | 105                         | 04/04/00         | 1889           |
| Toluene                    |      | 100                           | ug/L  | 100                            | 100                         | 04/04/00         | 1889           |
| Chlorobenzene              |      | 100                           | ug/L  | 106                            | 106                         | 04/04/00         | 1889           |
| Ethylbenzene               |      | 100                           | ug/L  | 105                            | 105                         | 04/04/00         | 1889           |
| Surr. Dibromofluoromethane |      | 50                            | %     | 50.51                          | 101                         | 04/04/00         | 1889           |
| Surr. Toluene-d8           |      | 50                            | %     | 50.45                          | 101                         | 04/04/00         | 1889           |
| Surr. 4-Bromofluorobenzene |      | 50                            | %     | 50.89                          | 102                         | 04/04/00         | 1889           |

# Quality Control Report Matrix Spike and Matrix Duplicate Spike

Cliff P. Brunson.  
B.B.C. International, Inc.  
1324 W. Marland  
Hobbs, NM 88240

Date: 4/20/00  
Page #17

Order ID Number: A00032304  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

| Parameter                  | Flag | Units | Sample Result | Spike  | Matrix | MS       | Duplicate |        | MSD      |        | Date Analyzed | Prep Batch # | Run Batch # |
|----------------------------|------|-------|---------------|--------|--------|----------|-----------|--------|----------|--------|---------------|--------------|-------------|
|                            |      |       |               | Amount | Spike  | Percent  | Spike     | MSD    | Percent  | MS/MSD |               |              |             |
|                            |      |       |               | Added  | Result | Recovery | Added     | Result | Recovery | RPD    |               |              |             |
| 1,1-Dichloroethene         |      | ug/L  | <2            | 100    | 125    | 125      | 100       | 130    | 130      | 4      | 03/28/00      | 1491         | 1773        |
| Benzene                    |      | ug/L  | <2            | 100    | 110    | 110      | 100       | 112    | 112      | 2      | 03/28/00      | 1491         | 1773        |
| Trichloroethene            |      | ug/L  | <2            | 100    | 110    | 110      | 100       | 110    | 110      | 0      | 03/28/00      | 1491         | 1773        |
| Toluene                    |      | ug/L  | <2            | 100    | 107    | 107      | 100       | 108    | 108      | 1      | 03/28/00      | 1491         | 1773        |
| Chlorobenzene              |      | ug/L  | <2            | 100    | 107    | 107      | 100       | 110    | 110      | 3      | 03/28/00      | 1491         | 1773        |
| Surr. Dibromofluoromethane |      | %     | 102           | 50     | 50.84  | 102      | 50        | 52.44  | 105      | 3      | 03/28/00      | 1491         | 1773        |
| Surr. Toluene-d8           |      | %     | 99            | 50     | 49.68  | 99       | 50        | 50.64  | 101      | 2      | 03/28/00      | 1491         | 1773        |
| Surr. 4-Bromofluorobenzene |      | %     | 102           | 50     | 50.91  | 102      | 50        | 50.33  | 101      | 1      | 03/28/00      | 1491         | 1773        |
| 1,1-Dichloroethene         |      | ug/L  | <2            | 100    | 120    | 120      | 100       | 124    | 124      | 3      | 03/29/00      | 1495         | 1783        |
| Benzene                    |      | ug/L  | <2            | 100    | 106    | 106      | 100       | 108    | 108      | 2      | 03/29/00      | 1495         | 1783        |
| Trichloroethene            |      | ug/L  | <2            | 100    | 107    | 107      | 100       | 109    | 109      | 2      | 03/29/00      | 1495         | 1783        |
| Toluene                    |      | ug/L  | <2            | 100    | 108    | 89       | 100       | 110    | 90       | 1      | 03/29/00      | 1495         | 1783        |
| Chlorobenzene              |      | ug/L  | <2            | 100    | 104    | 104      | 100       | 105    | 105      | 1      | 03/29/00      | 1495         | 1783        |
| Surr. Dibromofluoromethane |      | %     | 99            | 50     | 48.64  | 97       | 50        | 50.38  | 101      | 4      | 03/29/00      | 1495         | 1783        |
| Surr. Toluene-d8           |      | %     | 101           | 50     | 48.92  | 98       | 50        | 49.27  | 99       | 1      | 03/29/00      | 1495         | 1783        |
| Surr. 4-Bromofluorobenzene |      | %     | 99            | 50     | 49.91  | 100      | 50        | 49.52  | 99       | 1      | 03/29/00      | 1495         | 1783        |
| 1,1-Dichloroethene         |      | ug/L  | <2            | 100    | 122    | 122      | 100       | 122    | 122      | 0      | 04/04/00      | 1581         | 1889        |
| Benzene                    |      | ug/L  | <2            | 100    | 107    | 107      | 100       | 109    | 109      | 2      | 04/04/00      | 1581         | 1889        |
| Trichloroethene            |      | ug/L  | <2            | 100    | 105    | 105      | 100       | 104    | 104      | 1      | 04/04/00      | 1581         | 1889        |
| Toluene                    |      | ug/L  | <2            | 100    | 103    | 103      | 100       | 105    | 105      | 2      | 04/04/00      | 1581         | 1889        |
| Chlorobenzene              |      | ug/L  | <2            | 100    | 106    | 106      | 100       | 106    | 106      | 0      | 04/04/00      | 1581         | 1889        |
| Surr. Dibromofluoromethane |      | %     | 102           | 50     | 50.76  | 102      | 50        | 51.61  | 103      | 2      | 04/04/00      | 1581         | 1889        |
| Surr. Toluene-d8           |      | %     | 99            | 50     | 49.47  | 99       | 50        | 49.93  | 100      | 1      | 04/04/00      | 1581         | 1889        |
| Surr. 4-Bromofluorobenzene |      | %     | 97            | 50     | 48.45  | 97       | 50        | 48.28  | 97       | 0      | 04/04/00      | 1581         | 1889        |

# TraceAnalysis, Inc.

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Tel (806) 794 1296 Fax (806) 794 1298  
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## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # **AD0032303**

Company Name: **Intercontinental Inc.** Phone #: **(805)-397-6388**  
Address: **1324 W MacLeod Hobbs NM 88240 (505)-397-0397** Fax #: **(805)-397-6388**

Contact Person: **Cliff R. Brunsen**  
Invoice to: **Shell Westgate** Project Name: **Shell Westgate**  
(if different from above) **Shell + Company** Project #: **Shell Westgate**

Project Location: **Hobbs, NM**  
Sample/Signature: **David Paul Bradley**

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |      |     |      | SAMPLING |               |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------|-----|------|----------|---------------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO3 | ICE | NONE | DATE     | TIME          |
| 143069                  | TMW-5      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 9:30  |
| 70                      | TMW-4      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 10:49 |
| 71                      | TMW-3      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 11:20 |
| 72                      | TMW-2      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 11:45 |
| 73                      | TMW-1      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 12:15 |
| 74                      | SMW-11     | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 1:34  |
| 75                      | SMW-7      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 2:05  |
| 76                      | SMW-8      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 2:30  |
| 77                      | SMW-4      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 3:00  |
| 78                      | SMW-6      | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 5:30  |
| 79                      | SMW-10     | 2            | VOA           | ✓      |      |     |        |                     |      |     |      | ✓        | 8/21/00 4:22  |

Relinquished by: **David Paul Bradley** Date: **2.22.01** Time: **10:40 AM**  
Received by: **Cliff R. Brunsen** Date: **2.22.01** Time: **10:40 AM**

Relinquished by: **Cliff R. Brunsen** Date: **2.22.01** Time: **10:40 AM**  
Received at Laboratory by: **Cliff R. Brunsen** Date: **2.22.01** Time: **10:40 AM**

|                                             |             |
|---------------------------------------------|-------------|
| MTBE 8020/602                               |             |
| BTEX 8020/602                               |             |
| TPH                                         |             |
| PAH 8270                                    |             |
| Total Metals Ag As Ba Cd Cr Pb Hg Se        |             |
| TCLP Metals Ag As Ba Cd Cr Pb Hg Se         |             |
| TCLP Volatiles                              |             |
| TCLP Semi Volatiles                         |             |
| RCI                                         |             |
| GC/MS Vol. 8240/8260                        | ✓ BTEX only |
| GC/MS Semi. Vol. 8270/625                   |             |
| PCB's 8080/608                              |             |
| Pest. 8080/608                              |             |
| BOD, TSS, PH                                |             |
| Turn Around Time if different from standard |             |
| Hold                                        |             |

LAB USE ONLY  
Infect Y / N  
Headspace Y / N  
Temp °F  
Log-in Review **7/15**  
REMARKS: **4/21/00**

Relinquished by: **Cliff R. Brunsen** Date: **2.22.01** Time: **10:40 AM**  
Received at Laboratory by: **Cliff R. Brunsen** Date: **2.22.01** Time: **10:40 AM**  
Carrier # **TMW-8 908-871-99**  
Submittal of **es** constitutes agreement to Terms and Conditions listed on reverse side of C.O.R.



# **APPENDIX II**

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**TRACE ANALYSIS, INC.**  
**Laboratory Results**  
**2<sup>nd</sup> Quarter 2000**

**Westgate Subdivision**  
**Grimes Battery & Tasker Road**

**April 2001**

**Shell Exploration & Production Company**  
**Houston, Texas**

**Prepared by:**  
**BBC International, Inc.**

# TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

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FAX 915•585•4944

## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: June 22, 2000

Order ID Number: A00061410

Project Number: N/A  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 148014 | TMW-1       | Water  | 6/13/00    | 13:31      | 6/14/00       |
| 148015 | TMW-2       | Water  | 6/13/00    | 14:00      | 6/14/00       |
| 148016 | TMW-3       | Water  | 6/13/00    | 14:15      | 6/14/00       |
| 148017 | TMW-4       | Water  | 6/13/00    | 14:30      | 6/14/00       |
| 148018 | TMW-5       | Water  | 6/13/00    | 14:50      | 6/14/00       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.

  
Dr. Blair Leftwich, Director

## Analytical and Quality Control Report

### Sample: 148014 - TMW-1

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03241 Date Analyzed: 6/17/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02795 Date Prepared: 6/17/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.30  | µg/L  | 1        | 50           | 100              | 84 - 116        |
| Toluene-d8           |      | 53.58  | µg/L  | 1        | 50           | 107              | 92 - 108        |
| 4-Bromofluorobenzene |      | 45.41  | µg/L  | 1        | 50           | 90               | 80 - 110        |

### Sample: 148015 - TMW-2

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03241 Date Analyzed: 6/17/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02795 Date Prepared: 6/17/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.42  | µg/L  | 1        | 50           | 100              | 84 - 116        |
| Toluene-d8           |      | 53.59  | µg/L  | 1        | 50           | 107              | 92 - 108        |
| 4-Bromofluorobenzene |      | 44.55  | µg/L  | 1        | 50           | 89               | 80 - 110        |

### Sample: 148016 - TMW-3

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03241 Date Analyzed: 6/17/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02795 Date Prepared: 6/17/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.59  | µg/L  | 1        | 50           | 101              | 84 - 116        |
| Toluene-d8           |      | 53.41  | µg/L  | 1        | 50           | 106              | 92 - 108        |
| 4-Bromofluorobenzene |      | 44.11  | µg/L  | 1        | 50           | 88               | 80 - 110        |

**Sample: 148017 - TMW-4**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03241 Date Analyzed: 6/17/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02795 Date Prepared: 6/17/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | 3.92   | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.59  | µg/L  | 1        | 50           | 101              | 84 - 116        |
| Toluene-d8           |      | 52.72  | µg/L  | 1        | 50           | 105              | 92 - 108        |
| 4-Bromofluorobenzene |      | 46.18  | µg/L  | 1        | 50           | 92               | 80 - 110        |

**Sample: 148018 - TMW-5**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03241 Date Analyzed: 6/17/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02795 Date Prepared: 6/17/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | 86.60  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | 2.11   | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.82  | µg/L  | 1        | 50           | 101              | 84 - 116        |
| Toluene-d8           |      | 50.54  | µg/L  | 1        | 50           | 101              | 92 - 108        |
| 4-Bromofluorobenzene |      | 51.44  | µg/L  | 1        | 50           | 102              | 80 - 110        |

## Quality Control Report Method Blank

Sample: Method Blank

QCBatch: QC03241

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <2.00   | µg/L  | 2               |
| Toluene      |      | <2.00   | µg/L  | 2               |
| Ethylbenzene |      | <2.00   | µg/L  | 2               |
| m,p-Xylene   |      | <2.00   | µg/L  | 2               |
| o-Xylene     |      | <2.00   | µg/L  | 2               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 50.18  | µg/L  | 50           | 100              | 84 - 116       |
| Toluene-d8           |      | 52.94  | µg/L  | 50           | 105              | 92 - 108       |
| 4-Bromofluorobenzene |      | 44.52  | µg/L  | 50           | 89               | 80 - 110       |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC03241

| Param                 | Flag | Result | Units | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|--------|-------|------|--------------------|---------------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 104    | µg/L  | 1    | 100                | <2.00               | 104    |     | 73 - 154     | 20        |
| Benzene               |      | 104    | µg/L  | 1    | 100                | <2.00               | 104    |     | 84 - 126     | 20        |
| Trichloroethene (TCE) |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    |     | 82 - 123     | 20        |
| Toluene               |      | 99     | µg/L  | 1    | 100                | <2.00               | 99     |     | 81 - 122     | 20        |
| Chlorobenzene         |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    |     | 86 - 121     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 49.28  | µg/L  | 1    | 50           | 98     | 84 - 116     |
| Toluene-d8           |      | 52.15  | µg/L  | 1    | 50           | 104    | 92 - 108     |
| 4-Bromofluorobenzene |      | 44.45  | µg/L  | 1    | 50           | 88     | 80 - 110     |

Sample: LCSD

QC Batch: QC03241

| Param                 | Flag | Result | Units | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD  | % Rec. Limit | RPD Limit |
|-----------------------|------|--------|-------|------|--------------------|---------------------|--------|------|--------------|-----------|
| 1,1-Dichloroethene    |      | 107    | µg/L  | 1    | 100                | <2.00               | 107    | 2.84 | 73 - 154     | 20        |
| Benzene               |      | 106    | µg/L  | 1    | 100                | <2.00               | 106    | 1.90 | 84 - 126     | 20        |
| Trichloroethene (TCE) |      | 104    | µg/L  | 1    | 100                | <2.00               | 104    | 0.96 | 82 - 123     | 20        |
| Toluene               |      | 101    | µg/L  | 1    | 100                | <2.00               | 101    | 2.00 | 81 - 122     | 20        |
| Chlorobenzene         |      | 104    | µg/L  | 1    | 100                | <2.00               | 104    | 0.96 | 86 - 121     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 49.90  | µg/L  | 1    | 50           | 99     | 84 - 116     |
| Toluene-d8           |      | 51.51  | µg/L  | 1    | 50           | 103    | 92 - 108     |
| 4-Bromofluorobenzene |      | 44.51  | µg/L  | 1    | 50           | 89     | 80 - 110     |

## Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC03241

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Toluene              |      | µg/L  | 100                   | 102                    | 102                         | 81 - 122                      | 6/17/00          |
| Ethylbenzene         |      | µg/L  | 100                   | 103                    | 103                         | 80 - 120                      | 6/17/00          |
| Dibromofluoromethane |      | µg/L  | 50                    | 49.53                  | 99                          | 80 - 120                      | 6/17/00          |
| Toluene-d8           |      | µg/L  | 50                    | 50.02                  | 100                         | 80 - 120                      | 6/17/00          |
| 4-Bromofluorobenzene |      | µg/L  | 50                    | 52.23                  | 104                         | 80 - 120                      | 6/17/00          |

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4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name:

Phone #:

Address: (Street, City, Zip)

Fax #:

Contact Person:

Invoice to:

Project #:

Project Location:

Project Name:

Sample Signature:

## FIELD CODE

LAB USE ONLY

# CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

MATRIX

PRESERVATIVE METHOD

SAMPLING

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Turn Around Time if different from standard

Hold

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB Order ID # 10000410

### REMARKS:

LAB USE ONLY

Relinquished by:

Date:

Time:

Received by:

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

Relinquished by:

Date:

Time:

Received by:

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

Submission of sample constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

Carrier # TPH 80 902-071-982-8



6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

800•378•1296  
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806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: June 22, 2000

Order ID Number: A00061409

Project Number: N/A  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 148006 | GMW-2       | Water  | 6/12/00    | 11:25      | 6/14/00       |
| 148007 | GMW-4       | Water  | 6/12/00    | 14:50      | 6/14/00       |
| 148008 | GMW-6       | Water  | 6/12/00    | 13:30      | 6/14/00       |
| 148009 | GMW-7       | Water  | 6/12/00    | 15:00      | 6/14/00       |
| 148010 | GMW-8       | Water  | 6/12/00    | 15:30      | 6/14/00       |
| 148011 | GMW-10      | Water  | 6/12/00    | 14:00      | 6/14/00       |
| 148012 | GMW-11      | Water  | 6/12/00    | 11:18      | 6/14/00       |
| 148013 | Wash Blank  | Water  | 6/12/00    | 16:00      | 6/14/00       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

## Analytical and Quality Control Report

### Sample: 148006 - GMW-2

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.36  | µg/L  | 1        | 50           | 98               | 84 - 116        |
| Toluene-d8           |      | 51.17  | µg/L  | 1        | 50           | 102              | 92 - 108        |
| 4-Bromofluorobenzene |      | 47.46  | µg/L  | 1        | 50           | 94               | 80 - 110        |

### Sample: 148007 - GMW-4

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.91  | µg/L  | 1        | 50           | 99               | 84 - 116        |
| Toluene-d8           |      | 52.78  | µg/L  | 1        | 50           | 105              | 92 - 108        |
| 4-Bromofluorobenzene |      | 45.54  | µg/L  | 1        | 50           | 91               | 80 - 110        |

### Sample: 148008 - GMW-6

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.20  | µg/L  | 1        | 50           | 100              | 84 - 116        |
| Toluene-d8           |      | 50.39  | µg/L  | 1        | 50           | 100              | 92 - 108        |
| 4-Bromofluorobenzene |      | 48.89  | µg/L  | 1        | 50           | 97               | 80 - 110        |

**Sample: 148009 - GMW-7**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.12  | µg/L  | 1        | 50           | 100              | 84 - 116        |
| Toluene-d8           |      | 49.92  | µg/L  | 1        | 50           | 99               | 92 - 108        |
| 4-Bromofluorobenzene |      | 49.12  | µg/L  | 1        | 50           | 98               | 80 - 110        |

**Sample: 148010 - GMW-8**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.44  | µg/L  | 1        | 50           | 100              | 84 - 116        |
| Toluene-d8           |      | 50.60  | µg/L  | 1        | 50           | 101              | 92 - 108        |
| 4-Bromofluorobenzene |      | 49.02  | µg/L  | 1        | 50           | 98               | 80 - 110        |

**Sample: 148011 - GMW-10**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param   | Flag | Result | Units | Dilution | RDL |
|---------|------|--------|-------|----------|-----|
| Benzene |      | <2.00  | µg/L  | 1        | 2   |

Continued ...

Continued Sample: 148011 Analysis: 8260

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.22  | µg/L  | 1        | 50           | 100              | 84 - 116        |
| Toluene-d8           |      | 52.28  | µg/L  | 1        | 50           | 104              | 92 - 108        |
| 4-Bromofluorobenzene |      | 45.40  | µg/L  | 1        | 50           | 90               | 80 - 110        |

**Sample: 148012 - GMW-11**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.75  | µg/L  | 1        | 50           | 101              | 84 - 116        |
| Toluene-d8           |      | 53.05  | µg/L  | 1        | 50           | 106              | 92 - 108        |
| 4-Bromofluorobenzene |      | 44.05  | µg/L  | 1        | 50           | 88               | 80 - 110        |

**Sample: 148013 - Wash Blank**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC03239 Date Analyzed: 6/16/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB02793 Date Prepared: 6/16/00

| Param         | Flag         | Result                                        | Units | Dilution | RDL    |
|---------------|--------------|-----------------------------------------------|-------|----------|--------|
| Benzene       |              | <100.00                                       | µg/L  | 50       | 2      |
| Toluene       |              | <100.00                                       | µg/L  | 50       | 2      |
| Ethylbenzene  |              | <100.00                                       | µg/L  | 50       | 2      |
| m,p-Xylene    |              | <100.00                                       | µg/L  | 50       | 2      |
| o-Xylene      |              | <100.00                                       | µg/L  | 50       | 2      |
| Test Comments | <sup>1</sup> | Elevated reporting limit due to foamy matrix. |       |          | µg/L 1 |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.75  | µg/L  | 1        | 50           | 101              | 84 - 116        |

Continued ...

<sup>1</sup> sample ran at 1:50 dilution due to foamy matrix

## Quality Control Report Method Blank

Sample: Method Blank

QCBatch: QC03239

| Param        | Flag | Results | Units | Reporting<br>Limit |
|--------------|------|---------|-------|--------------------|
| Benzene      |      | <2.00   | µg/L  | 2                  |
| Toluene      |      | <2.00   | µg/L  | 2                  |
| Ethylbenzene |      | <2.00   | µg/L  | 2                  |
| m,p-Xylene   |      | <2.00   | µg/L  | 2                  |
| o-Xylene     |      | <2.00   | µg/L  | 2                  |

| Surrogate            | Flag | Result | Units | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|----------------------|------|--------|-------|-----------------|---------------------|-------------------|
| Dibromofluoromethane |      | 49.51  | µg/L  | 50              | 99                  | 84 - 116          |
| Toluene-d8           |      | 52.76  | µg/L  | 50              | 105                 | 92 - 108          |
| 4-Bromofluorobenzene |      | 44.34  | µg/L  | 50              | 88                  | 80 - 110          |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC03239

| Param                 | Flag | Result | Units | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|--------|-------|------|--------------------|---------------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    |     | 73 - 154     | 20        |
| Benzene               |      | 101    | µg/L  | 1    | 100                | <2.00               | 101    |     | 84 - 126     | 20        |
| Trichloroethene (TCE) |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    |     | 82 - 123     | 20        |
| Toluene               |      | 98     | µg/L  | 1    | 100                | <2.00               | 98     |     | 81 - 122     | 20        |
| Chlorobenzene         |      | 104    | µg/L  | 1    | 100                | <2.00               | 104    |     | 86 - 121     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 48.50  | µg/L  | 1    | 50           | 97     | 84 - 116     |
| Toluene-d8           |      | 50.38  | µg/L  | 1    | 50           | 100    | 92 - 108     |
| 4-Bromofluorobenzene |      | 45.51  | µg/L  | 1    | 50           | 91     | 80 - 110     |

Sample: LCSD

QC Batch: QC03239

| Param                 | Flag | Result | Units | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD  | % Rec. Limit | RPD Limit |
|-----------------------|------|--------|-------|------|--------------------|---------------------|--------|------|--------------|-----------|
| 1,1-Dichloroethene    |      | 104    | µg/L  | 1    | 100                | <2.00               | 104    | 0.96 | 73 - 154     | 20        |
| Benzene               |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    | 1.96 | 84 - 126     | 20        |
| Trichloroethene (TCE) |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    | 0.00 | 82 - 123     | 20        |
| Toluene               |      | 99     | µg/L  | 1    | 100                | <2.00               | 99     | 1.01 | 81 - 122     | 20        |
| Chlorobenzene         |      | 103    | µg/L  | 1    | 100                | <2.00               | 103    | 0.96 | 86 - 121     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 49.23  | µg/L  | 1    | 50           | 98     | 84 - 116     |
| Toluene-d8           |      | 50.35  | µg/L  | 1    | 50           | 100    | 92 - 108     |
| 4-Bromofluorobenzene |      | 45.40  | µg/L  | 1    | 50           | 90     | 80 - 110     |

## Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC03239

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Toluene              |      | µg/L  | 100                   | 97                     | 97                          | 81 - 122                      | 6/16/00          |
| Ethylbenzene         |      | µg/L  | 100                   | 100                    | 100                         | 80 - 120                      | 6/16/00          |
| Dibromofluoromethane |      | µg/L  | 50                    | 48.30                  | 96                          | 80 - 120                      | 6/16/00          |
| Toluene-d8           |      | µg/L  | 50                    | 48.75                  | 97                          | 80 - 120                      | 6/16/00          |
| 4-Bromofluorobenzene |      | µg/L  | 50                    | 51.22                  | 102                         | 80 - 120                      | 6/16/00          |

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1 (800) 378-1296

# TraceAnalysis, Inc.

4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

Company Name:

Phone #:

Address: (Street, City, Zip)

Fax #:

Contact Person:

Invoice to:

(If different from above)

Project #:

Project Name:

Project Location:

Sample Signature:

## FIELD CODE

LAB USE ONLY

# CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

MTBE 8021B/602

BTX 8021B/602

TPH 418.1/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Turn Around Time if different from standard

Hold

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

A00061409

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by:

Date:

Received by:

Date:

Relinquished by:

Date:

Received by:

Date:

Relinquished by:

Date:

Received by:

Date:

REMARKS:

LAB USE ONLY

4/23/00

Submittal of sample constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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# **APPENDIX III**

---

**TRACE ANALYSIS, INC.**  
**Laboratory Results**  
**3<sup>rd</sup> Quarter 2000**

**Westgate Subdivision**  
**Grimes Battery & Tasker Road**

**April 2001**

**Shell Exploration & Production Company**  
**Houston, Texas**

**Prepared by:**  
**BBC International, Inc.**

# TRACE ANALYSIS, INC.

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El Paso, Texas 79922

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E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: October 4, 2000

Order ID Number: A00092209

Project Number: N/A  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 154050 | TMW-5       | Water  | 9/20/00    | 12:00      | 9/22/00       |
| 154051 | TMW-4       | Water  | 9/20/00    | 13:50      | 9/22/00       |
| 154052 | TMW-3       | Water  | 9/20/00    | 14:35      | 9/22/00       |
| 154053 | TMW-2       | Water  | 9/20/00    | 15:20      | 9/22/00       |
| 154054 | TMW-1       | Water  | 9/20/00    | 15:40      | 9/22/00       |
| 154055 | GMW-2       | Water  | 9/21/00    | 12:04      | 9/22/00       |
| 154056 | GMW-4       | Water  | 9/21/00    | 11:10      | 9/22/00       |
| 154057 | GMW-6       | Water  | 9/21/00    | 13:30      | 9/22/00       |
| 154058 | GMW-7       | Water  | 9/21/00    | 16:45      | 9/22/00       |
| 154059 | GMW-8       | Water  | 9/21/00    | 16:15      | 9/22/00       |
| 154060 | GMW-10      | Water  | 9/21/00    | 21:00      | 9/22/00       |
| 154061 | GMW-11      | Water  | 9/21/00    | 15:30      | 9/22/00       |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.

  
Dr. Blair Leftwich, Director

## Analytical and Quality Control Report

### Sample: 154050 - TMW-5

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | 22.78  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.34  | µg/L  | 1        | 50           | 100              | 85 - 117        |
| Toluene-d8           |      | 49.82  | µg/L  | 1        | 50           | 99               | 93 - 109        |
| 4-Bromofluorobenzene |      | 50.12  | µg/L  | 1        | 50           | 100              | 76 - 109        |

### Sample: 154051 - TMW-4

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05250 Date Analyzed: 9/29/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04585 Date Prepared: 9/29/00

| Param         | Flag | Result | Units | Dilution | RDL |
|---------------|------|--------|-------|----------|-----|
| Benzene       |      | <100   | µg/L  | 50       | 2   |
| Toluene       |      | <100   | µg/L  | 50       | 2   |
| Ethylbenzene  |      | <100   | µg/L  | 50       | 2   |
| m,p-Xylene    |      | <100   | µg/L  | 50       | 2   |
| o-Xylene      |      | <100   | µg/L  | 50       | 2   |
| Test Comments | 1    | Note   | µg/L  | 1        |     |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.89  | µg/L  | 1        | 50           | 99               | 85 - 117        |
| Toluene-d8           |      | 52.21  | µg/L  | 1        | 50           | 104              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.36  | µg/L  | 1        | 50           | 92               | 76 - 109        |

### Sample: 154052 - TMW-3

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05250 Date Analyzed: 9/29/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04585 Date Prepared: 9/29/00

| Param   | Flag | Result | Units | Dilution | RDL |
|---------|------|--------|-------|----------|-----|
| Benzene |      | <100   | µg/L  | 50       | 2   |
| Toluene |      | <100   | µg/L  | 50       | 2   |

Continued ...

<sup>1</sup> Sample ran 1:50 dilution due to surfactants.

Continued Sample: 154052 Analysis: 8260

| Param         | Flag | Result | Units | Dilution | RDL |
|---------------|------|--------|-------|----------|-----|
| Ethylbenzene  |      | <100   | µg/L  | 50       | 2   |
| m,p-Xylene    |      | <100   | µg/L  | 50       | 2   |
| o-Xylene      |      | <100   | µg/L  | 50       | 2   |
| Test Comments | 2    | Note   | µg/L  | 1        |     |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.32  | µg/L  | 1        | 50           | 98               | 85 - 117        |
| Toluene-d8           |      | 51.61  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.60  | µg/L  | 1        | 50           | 93               | 76 - 109        |

**Sample: 154053 - TMW-2**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.69  | µg/L  | 1        | 50           | 101              | 85 - 117        |
| Toluene-d8           |      | 49.67  | µg/L  | 1        | 50           | 99               | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.79  | µg/L  | 1        | 50           | 93               | 76 - 109        |

**Sample: 154054 - TMW-1**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 47.58  | µg/L  | 1        | 50           | 95               | 85 - 117        |
| Toluene-d8           |      | 50.50  | µg/L  | 1        | 50           | 101              | 93 - 109        |

Continued ...

<sup>2</sup>Sample ran 1:50 dilution due to surfactants.

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene |      | 47.18  | µg/L  | 1        | 50           | 94               | 76 - 109        |

**Sample: 154055 - GMW-2**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 47.78  | µg/L  | 1        | 50           | 95               | 85 - 117        |
| Toluene-d8           |      | 51.04  | µg/L  | 1        | 50           | 102              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.18  | µg/L  | 1        | 50           | 92               | 76 - 109        |

**Sample: 154056 - GMW-4**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05250 Date Analyzed: 9/29/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04585 Date Prepared: 9/29/00

| Param         | Flag | Result | Units | Dilution | RDL |
|---------------|------|--------|-------|----------|-----|
| Benzene       |      | <100   | µg/L  | 50       | 2   |
| Toluene       |      | <100   | µg/L  | 50       | 2   |
| Ethylbenzene  |      | <100   | µg/L  | 50       | 2   |
| m,p-Xylene    |      | <100   | µg/L  | 50       | 2   |
| o-Xylene      |      | <100   | µg/L  | 50       | 2   |
| Test Comments | 3    | Note   | µg/L  | 1        |     |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.61  | µg/L  | 1        | 50           | 99               | 85 - 117        |
| Toluene-d8           |      | 52.23  | µg/L  | 1        | 50           | 104              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.47  | µg/L  | 1        | 50           | 92               | 76 - 109        |

**Sample: 154057 - GMW-6**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

Continued ...

<sup>3</sup>Sample ran 1:50 dilution due to surfactants.

Continued Sample: 154057 Analysis: 8260

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Param        | Flag | Result | Units | Dilution | RDL |
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 48.40  | µg/L  | 1        | 50           | 96               | 85 - 117        |
| Toluene-d8           |      | 49.20  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 48.88  | µg/L  | 1        | 50           | 97               | 76 - 109        |

Sample: 154058 - GMW-7

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 47.97  | µg/L  | 1        | 50           | 95               | 85 - 117        |
| Toluene-d8           |      | 50.03  | µg/L  | 1        | 50           | 100              | 93 - 109        |
| 4-Bromofluorobenzene |      | 47.80  | µg/L  | 1        | 50           | 95               | 76 - 109        |

Sample: 154059 - GMW-8

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 46.44  | µg/L  | 1        | 50           | 92               | 85 - 117        |

Continued ...

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Toluene-d8           |      | 51.78  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.26  | µg/L  | 1        | 50           | 92               | 76 - 109        |

**Sample: 154060 - GMW-10**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 44.72  | µg/L  | 1        | 50           | 89               | 85 - 117        |
| Toluene-d8           |      | 51.64  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.13  | µg/L  | 1        | 50           | 90               | 76 - 109        |

**Sample: 154061 - GMW-11**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC05202 Date Analyzed: 9/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB04534 Date Prepared: 9/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <2.00  | µg/L  | 1        | 2   |
| Toluene      |      | <2.00  | µg/L  | 1        | 2   |
| Ethylbenzene |      | <2.00  | µg/L  | 1        | 2   |
| m,p-Xylene   |      | <2.00  | µg/L  | 1        | 2   |
| o-Xylene     |      | <2.00  | µg/L  | 1        | 2   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 45.38  | µg/L  | 1        | 50           | 90               | 85 - 117        |
| Toluene-d8           |      | 51.53  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.33  | µg/L  | 1        | 50           | 90               | 76 - 109        |

## Quality Control Report Method Blank

Sample: Method Blank

QC Batch: QC05202

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <2.00   | µg/L  | 2               |
| Toluene      |      | <2.00   | µg/L  | 2               |
| Ethylbenzene |      | <2.00   | µg/L  | 2               |
| m,p-Xylene   |      | <2.00   | µg/L  | 2               |
| o-Xylene     |      | <2.00   | µg/L  | 2               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 50.31  | µg/L  | 50           | 100              | 85 - 117       |
| Toluene-d8           |      | 51.17  | µg/L  | 50           | 102              | 93 - 109       |
| 4-Bromofluorobenzene |      | 47.02  | µg/L  | 50           | 94               | 76 - 109       |

Sample: Method Blank

QC Batch: QC05250

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <2.00   | µg/L  | 2               |
| Toluene      |      | <2.00   | µg/L  | 2               |
| Ethylbenzene |      | <2.00   | µg/L  | 2               |
| m,p-Xylene   |      | <2.00   | µg/L  | 2               |
| o-Xylene     |      | <2.00   | µg/L  | 2               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 49.16  | µg/L  | 50           | 98               | 85 - 117       |
| Toluene-d8           |      | 51.59  | µg/L  | 50           | 103              | 93 - 109       |
| 4-Bromofluorobenzene |      | 46.85  | µg/L  | 50           | 93               | 76 - 109       |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC05202

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 98            | µg/L  | 1    | 100                | <2.00         | 98     |     | 65 - 147     | 20        |
| Benzene               |      | 100           | µg/L  | 1    | 100                | <2.00         | 100    |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 99            | µg/L  | 1    | 100                | <2.00         | 99     |     | 80 - 119     | 20        |
| Toluene               |      | 99            | µg/L  | 1    | 100                | <2.00         | 99     |     | 78 - 118     | 20        |
| Chlorobenzene         |      | 100           | µg/L  | 1    | 100                | <2.00         | 100    |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 49.89  | µg/L  | 1    | 50           | 99     | 85 - 117     |
| Toluene-d8           |      | 50.13  | µg/L  | 1    | 50           | 100    | 93 - 109     |
| 4-Bromofluorobenzene |      | 47.13  | µg/L  | 1    | 50           | 94     | 76 - 109     |

**Sample: LCSD**

QC Batch: QC05202

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 98            | µg/L  | 1    | 100                | <2.00         | 98     | 0   | 65 - 147     | 20        |
| Benzene               |      | 101           | µg/L  | 1    | 100                | <2.00         | 101    | 1   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 99            | µg/L  | 1    | 100                | <2.00         | 99     | 0   | 80 - 119     | 20        |
| Toluene               |      | 100           | µg/L  | 1    | 100                | <2.00         | 100    | 1   | 78 - 118     | 20        |
| Chlorobenzene         |      | 101           | µg/L  | 1    | 100                | <2.00         | 101    | 1   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 49.93  | µg/L  | 1    | 50           | 99     | 85 - 117     |
| Toluene-d8           |      | 49.84  | µg/L  | 1    | 50           | 99     | 93 - 109     |
| 4-Bromofluorobenzene |      | 47.22  | µg/L  | 1    | 50           | 94     | 76 - 109     |

**Sample: LCS**

QC Batch: QC05250

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 90            | µg/L  | 1    | 100                | <2.00         | 90     |     | 65 - 147     | 20        |
| Benzene               |      | 100           | µg/L  | 1    | 100                | <2.00         | 100    |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 94            | µg/L  | 1    | 100                | <2.00         | 94     |     | 80 - 119     | 20        |
| Toluene               |      | 101           | µg/L  | 1    | 100                | <2.00         | 101    |     | 78 - 118     | 20        |
| Chlorobenzene         |      | 105           | µg/L  | 1    | 100                | <2.00         | 105    |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 48.85  | µg/L  | 1    | 50           | 97     | 85 - 117     |
| Toluene-d8           |      | 50.31  | µg/L  | 1    | 50           | 100    | 93 - 109     |
| 4-Bromofluorobenzene |      | 47.10  | µg/L  | 1    | 50           | 94     | 76 - 109     |

**Sample: LCSD**

QC Batch: QC05250

Continued ...

... Continued

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 88            | µg/L  | 1    | 100                | <2.00         | 88     | 2   | 65 - 147     | 20        |
| Benzene               |      | 100           | µg/L  | 1    | 100                | <2.00         | 100    | 0   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 94            | µg/L  | 1    | 100                | <2.00         | 94     | 0   | 80 - 119     | 20        |
| Toluene               |      | 101           | µg/L  | 1    | 100                | <2.00         | 101    | 0   | 78 - 118     | 20        |
| Chlorobenzene         |      | 105           | µg/L  | 1    | 100                | <2.00         | 105    | 0   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 49.02  | µg/L  | 1    | 50           | 98     | 85 - 117     |
| Toluene-d8           |      | 50.63  | µg/L  | 1    | 50           | 101    | 93 - 109     |
| 4-Bromofluorobenzene |      | 47.49  | µg/L  | 1    | 50           | 94     | 76 - 109     |

## Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC05202

| Param                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Toluene              |      | µg/L  | 100             | 92               | 92                    | 81 - 122                | 9/27/00       |
| Ethylbenzene         |      | µg/L  | 100             | 92               | 92                    | 80 - 120                | 9/27/00       |
| Dibromofluoromethane |      | µg/L  | 50              | 57.35            | 114                   | 80 - 120                | 9/27/00       |
| Toluene-d8           |      | µg/L  | 50              | 48.79            | 97                    | 80 - 120                | 9/27/00       |
| 4-Bromofluorobenzene |      | µg/L  | 50              | 50.69            | 101                   | 80 - 120                | 9/27/00       |

Sample: CCV (1)

QC Batch: QC05250

| Param                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Toluene              |      | µg/L  | 100             | 94               | 94                    | 81 - 122                | 9/29/00       |
| Ethylbenzene         |      | µg/L  | 100             | 95               | 95                    | 80 - 120                | 9/29/00       |
| Dibromofluoromethane |      | µg/L  | 50              | 56.74            | 113                   | 80 - 120                | 9/29/00       |
| Toluene-d8           |      | µg/L  | 50              | 49.72            | 99                    | 80 - 120                | 9/29/00       |
| 4-Bromofluorobenzene |      | µg/L  | 50              | 49.92            | 99                    | 80 - 120                | 9/29/00       |

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Contact Person: Cliff E. Brunsas

Invoice to: Shell Chemical Company Project Name: ATTILIA Wayne Hamilton

Project #: 154050 Sample Location: Shell Westgate

| LAB USE ONLY | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |      |     |      | SAMPLING |       |
|--------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------|-----|------|----------|-------|
|              |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO3 | ICE | NONE | DATE     | TIME  |
| 154050       | TMU-5      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-20-00  | 12:00 |
| 51           | TMU-4      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-20-00  | 1:50  |
| 52           | TMU-3      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-20-00  | 2:35  |
| 53           | TMU-2      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-20-03  | 2:20  |
| 54           | TMU-1      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-20-03  | 3:40  |
| 55           | SMU-2      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 12-20-09 | 9:20  |
| 56           | SMU-4      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-21-00  | 11:10 |
| 57           | SMU-4      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-21-00  | 1:30  |
| 58           | SMU-7      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-21-00  | 4:45  |
| 59           | SMU-7      | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-21-00  | 4:15  |
| 60           | SMU-10     | 2            | 100           | ✓      |      |     |        | ✓                   |      |     |      | 9-21-00  | 2:00  |

Relinquished by: Trace Analysis, Inc. Date: 9-21-00 Time: 4:55

Relinquished by: Trace Analysis, Inc. Date: 9-21-00 Time: 4:55

Received at Laboratory by: Trace Analysis, Inc. Date: 9-22-00 Time: 9:00am

Submitted at same time constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

LAB Order ID # 400092201

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

MTBE 8021B/602  
BTEX 8021B/602  
TPH 418.1/TX1005  
PAH 8270C  
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
TCLP Pesticides  
RCI  
GC-MS Vol. 8260B/602 BTEX only  
GC/MS Semi. Vol. 8270C/625  
PCB's 8082/608  
Pesticides 8081A/608  
BOD, TSS, pH

Turn Around Time if different from standard

Hold

**LAB USE ONLY**

Remarks: F 10-5

Carrier # TMU-5 402-071-995-2

**4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

JAB Order ID # A00092209

Company Name: **ABC**

Phone #: **(111) 222-3333**

Address: (Street, City, Zip) Fax #: 510-200-4000

Contact Person: Mr. O. O. O.

CLIFF E. BARNSON

Invoice to:  
(if different from above)  
Shell & P Company

| Project #: | Project Name: |
|------------|---------------|
|            |               |

Project Location: 1115c  
Sample Signature: [Signature] 7/1/10

Ades W

FIELD CODE

**LAB USE ONLY**

Sym-11

$$\frac{2}{100}$$

7

8-21-00 3:30

MTBE 8021B/602  
BTEX 8021B/602  
TPH 418.1/TX1005  
PAH 8270C  
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
TCLP Pesticides  
RCI  
GC-MS Vol. 8260B *BTEX only*  
GC/MS Semi. Vol. 8270C/625  
PCB's 8082/608  
Pesticides 8081A/608  
BOD, TSS, pH

Turn Around Time if different from standard

**Hold**

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)Relinquished by: 11 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by:

Date: Time:

REMARKS:

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by:

Date: Time:

**Reinquished by:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

Received at:

Date &amp; Time:

# AB USE ONLY

14

**Submission of sample constitutes agreement to Terms and Conditions listed on reverse side of C.O.C**

ORIGINAL COPY

Carrier # TN 902-071-9950



# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

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E-Mail: [lab@traceanalysis.com](mailto:lab@traceanalysis.com)

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: November 14, 2000

Order ID Number: A00102625

Project Number: N/A  
Project Name: Shell Westgate  
Project Location: Hobbs, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 157083 | TMW-4       | Water  | 10/25/00   | 13:30      | 10/26/00      |
| 157084 | TMW-3       | Water  | 10/25/00   | 13:59      | 10/26/00      |
| 157085 | GMW-4       | Water  | 10/25/00   | 14:15      | 10/26/00      |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 4 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.

  
\_\_\_\_\_  
Dr. Blair Leftwich, Director

## Analytical and Quality Control Report

### Sample: 157083 - TMW-4

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC06404 Date Analyzed: 11/7/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB05593 Date Prepared: 11/7/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 52.12  | µg/L  | 1        | 50           | 104              | 85 - 117        |
| Toluene-d8           |      | 50.81  | µg/L  | 1        | 50           | 101              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.80  | µg/L  | 1        | 50           | 93               | 76 - 109        |

### Sample: 157084 - TMW-3

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC06404 Date Analyzed: 11/7/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB05593 Date Prepared: 11/7/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 52.77  | µg/L  | 1        | 50           | 105              | 85 - 117        |
| Toluene-d8           |      | 50.67  | µg/L  | 1        | 50           | 101              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.85  | µg/L  | 1        | 50           | 93               | 76 - 109        |

### Sample: 157085 - GMW-4

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC06404 Date Analyzed: 11/7/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB05593 Date Prepared: 11/7/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 52.64  | µg/L  | 1        | 50           | 105              | 85 - 117        |
| Toluene-d8           |      | 50.48  | µg/L  | 1        | 50           | 100              | 93 - 109        |
| 4-Bromofluorobenzene |      | 47.84  | µg/L  | 1        | 50           | 95               | 76 - 109        |

## Quality Control Report Method Blank

Sample: Method Blank

QC Batch: QC06404

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <1.00   | µg/L  | 1               |
| Toluene      |      | <1.00   | µg/L  | 1               |
| Ethylbenzene |      | <1.00   | µg/L  | 1               |
| m,p-Xylene   |      | <1.00   | µg/L  | 1               |
| o-Xylene     |      | <1.00   | µg/L  | 1               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 51.56  | µg/L  | 50           | 103              | 85 - 117       |
| Toluene-d8           |      | 52.12  | µg/L  | 50           | 104              | 93 - 109       |
| 4-Bromofluorobenzene |      | 46.05  | µg/L  | 50           | 92               | 76 - 109       |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC06404

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 109           | µg/L  | 1    | 100                | <1.00         | 109    |     | 65 - 147     | 20        |
| Benzene               |      | 106           | µg/L  | 1    | 100                | <1.00         | 106    |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 100           | µg/L  | 1    | 100                | <1.00         | 100    |     | 80 - 119     | 20        |
| Toluene               |      | 100           | µg/L  | 1    | 100                | <1.00         | 100    |     | 78 - 118     | 20        |
| Chlorobenzene         |      | 103           | µg/L  | 1    | 100                | <1.00         | 103    |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 51.35  | µg/L  | 1    | 50           | 102    | 85 - 117     |

Continued ...

Continued

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Toluene-d8           |      | 51.70  | µg/L  | 1    | 50           | 103    | 93 - 109     |
| 4-Bromofluorobenzene |      | 47.47  | µg/L  | 1    | 50           | 94     | 76 - 109     |

Sample: LCSD

QC Batch: QC06404

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 108           | µg/L  | 1    | 100                | <1.00         | 108    | 1   | 65 - 147     | 20        |
| Benzene               |      | 106           | µg/L  | 1    | 100                | <1.00         | 106    | 0   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     | 1   | 80 - 119     | 20        |
| Toluene               |      | 100           | µg/L  | 1    | 100                | <1.00         | 100    | 0   | 78 - 118     | 20        |
| Chlorobenzene         |      | 104           | µg/L  | 1    | 100                | <1.00         | 104    | 1   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 51.42  | µg/L  | 1    | 50           | 102    | 85 - 117     |
| Toluene-d8           |      | 51.60  | µg/L  | 1    | 50           | 103    | 93 - 109     |
| 4-Bromofluorobenzene |      | 47.32  | µg/L  | 1    | 50           | 94     | 76 - 109     |

## Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC06404

| Param                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Toluene              |      | µg/L  | 100             | 103              | 103                   | 81 - 122                | 11/7/00       |
| Ethylbenzene         |      | µg/L  | 100             | 106              | 106                   | 80 - 120                | 11/7/00       |
| Dibromofluoromethane |      | µg/L  | 50              | 52.91            | 105                   | 80 - 120                | 11/7/00       |
| Toluene-d8           |      | µg/L  | 50              | 50.02            | 100                   | 80 - 120                | 11/7/00       |
| 4-Bromofluorobenzene |      | µg/L  | 50              | 50.28            | 100                   | 80 - 120                | 11/7/00       |

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Forwards

Michael Frank Leach

**TIME**

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Hold

(Circle or Specify Method No.)

!

REMARKS:

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1

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Carrier # Bus 902 071 997 2

# **APPENDIX IV**

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**TRACE ANALYSIS, INC.**  
**Laboratory Results**  
**4<sup>th</sup> Quarter 2000**

**Westgate Subdivision**  
**Grimes Battery & Tasker Road**

**April 2001**

**Shell Exploration & Production Company**  
**Houston, Texas**

**Prepared by:**  
**BBC International, Inc.**

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424  
El Paso, Texas 79922

800•378•1296  
888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296  
915•585•3443

FAX 806•794•1298  
FAX 915•585•4944

## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: January 29, 2001

Order ID Number: A00122118

Project Number: Westgate  
Project Name: 1331 Tasker  
Project Location: Hobbs, NM

CORRECTED

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 161325 | TMW-1       | Water  | 12/20/00   | 11:30      | 12/21/00      |
| 161326 | TMW-2       | Water  | 12/20/00   | 13:48      | 12/21/00      |
| 161327 | TMW-3       | Water  | 12/20/00   | 11:00      | 12/21/00      |
| 161328 | TMW-4       | Water  | 12/20/00   | 10:18      | 12/21/00      |
| 161329 | TMW-5       | Water  | 12/20/00   | 16:30      | 12/21/00      |
| 161330 | GMW-2       | Water  | 12/20/00   | 14:20      | 12/21/00      |
| 161331 | GMW-4       | Water  | 12/20/00   | 14:49      | 12/21/00      |
| 161332 | GMW-6       | Water  | 12/20/00   | 15:15      | 12/21/00      |
| 161333 | GMW-7       | Water  | 12/20/00   | 15:29      | 12/21/00      |
| 161334 | GMW-8       | Water  | 12/20/00   | 15:50      | 12/21/00      |
| 161335 | GMW-10      | Water  | 12/20/00   | 16:09      | 12/21/00      |
| 161336 | GMW-11      | Water  | 12/20/00   | 16:15      | 12/21/00      |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.

### Order Comment

Sample description corrected for sample 161331 from GMW-6 to GMW-4 and for sample 161332 from GMW-7 to GMW-6.

  
Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 161325 - TMW-1

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 48.47  | mg/L  | 1        | 80           | 60               | 36 - 107        |
| 2-Fluorobiphenyl |      | 49.58  | mg/L  | 1        | 80           | 61               | 54 - 97         |
| Terphenyl-d14    |      | 37.93  | mg/L  | 1        | 80           | 47               | 0 - 113         |

### Sample: 161326 - TMW-2

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 41.88  | mg/L  | 1        | 80           | 52               | 36 - 107        |
| 2-Fluorobiphenyl |      | 41.09  | mg/L  | 1        | 80           | 51               | 54 - 97         |
| Terphenyl-d14    |      | 49.48  | mg/L  | 1        | 80           | 61               | 0 - 113         |

**Sample: 161327 - TMW-3**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 43.02  | mg/L  | 1        | 80           | 53               | 36 - 107        |
| 2-Fluorobiphenyl |      | 41.84  | mg/L  | 1        | 80           | 52               | 54 - 97         |
| Terphenyl-d14    |      | 44.63  | mg/L  | 1        | 80           | 55               | 0 - 113         |

**Sample: 161328 - TMW-4**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                | Flag | Result | Units | Dilution | RDL   |
|----------------------|------|--------|-------|----------|-------|
| Naphthalene          |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene       |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene       |      | <0.005 | mg/L  | 1        | 0.005 |

Continued ...

... Continued Sample: 161328 Analysis: PAH

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 43.27  | mg/L  | 1        | 80           | 54               | 36 - 107        |
| 2-Fluorobiphenyl |      | 45.69  | mg/L  | 1        | 80           | 57               | 54 - 97         |
| Terphenyl-d14    |      | 47.30  | mg/L  | 1        | 80           | 59               | 0 - 113         |

**Sample: 161329 - TMW-5**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 41.09  | mg/L  | 1        | 80           | 51               | 36 - 107        |
| 2-Fluorobiphenyl |      | 42.15  | mg/L  | 1        | 80           | 52               | 54 - 97         |
| Terphenyl-d14    |      | 29.38  | mg/L  | 1        | 80           | 36               | 0 - 113         |

**Sample: 161330 - GMW-2**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param          | Flag | Result | Units | Dilution | RDL   |
|----------------|------|--------|-------|----------|-------|
| Naphthalene    |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene       |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |

Continued ...

... Continued Sample: 161330 Analysis: PAH

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 50.34  | mg/L  | 1        | 80           | 62               | 36 - 107        |
| 2-Fluorobiphenyl |      | 49.61  | mg/L  | 1        | 80           | 62               | 54 - 97         |
| Terphenyl-d14    |      | 41.77  | mg/L  | 1        | 80           | 52               | 0 - 113         |

Sample: 161331 - GMW-4

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 39.70  | mg/L  | 1        | 80           | 49               | 36 - 107        |
| 2-Fluorobiphenyl |      | 36.70  | mg/L  | 1        | 80           | 45               | 54 - 97         |
| Terphenyl-d14    |      | 37.27  | mg/L  | 1        | 80           | 46               | 0 - 113         |

Sample: 161332 - GMW-6

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

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| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 40.37  | mg/L  | 1        | 80           | 50               | 36 - 107        |
| 2-Fluorobiphenyl |      | 39.22  | mg/L  | 1        | 80           | 49               | 54 - 97         |
| Terphenyl-d14    |      | 42.48  | mg/L  | 1        | 80           | 53               | 0 - 113         |

**Sample: 161333 - GMW-7**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 42.04  | mg/L  | 1        | 80           | 52               | 36 - 107        |
| 2-Fluorobiphenyl |      | 42.95  | mg/L  | 1        | 80           | 53               | 54 - 97         |
| Terphenyl-d14    |      | 29.82  | mg/L  | 1        | 80           | 37               | 0 - 113         |

**Sample: 161334 - GMW-8**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 43.20  | mg/L  | 1        | 80           | 54               | 36 - 107        |
| 2-Fluorobiphenyl |      | 42.15  | mg/L  | 1        | 80           | 52               | 54 - 97         |
| Terphenyl-d14    |      | 35.46  | mg/L  | 1        | 80           | 44               | 0 - 113         |

**Sample: 161335 - GMW-10**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 01/02/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

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| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Nitrobenzene-d5  |      | 38.80  | mg/L  | 1        | 80           | 48               | 36 - 107        |
| 2-Fluorobiphenyl |      | 38.35  | mg/L  | 1        | 80           | 47               | 54 - 97         |
| Terphenyl-d14    |      | 45.19  | mg/L  | 1        | 80           | 56               | 0 - 113         |

**Sample: 161336 - GMW-11**

Analysis: PAH      Analytical Method: S 8270C      QC Batch: QC07843      Date Analyzed: 01/02/01  
Analyst: MA      Preparation Method: E 3510C      Prep Batch: PB06859      Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 38.34  | mg/L  | 1        | 80           | 47               | 36 - 107        |
| 2-Fluorobiphenyl |      | 38.86  | mg/L  | 1        | 80           | 48               | 54 - 97         |
| Terphenyl-d14    |      | 36.42  | mg/L  | 1        | 80           | 45               | 0 - 113         |

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC07843

| Param                  | Flag | Results | Units | Reporting Limit |
|------------------------|------|---------|-------|-----------------|
| Naphthalene            |      | <0.005  | mg/L  | 0.005           |
| Acenaphthylene         |      | <0.005  | mg/L  | 0.005           |
| Acenaphthene           |      | <0.005  | mg/L  | 0.005           |
| Fluorene               |      | <0.005  | mg/L  | 0.005           |
| Phenanthrene           |      | <0.005  | mg/L  | 0.005           |
| Anthracene             |      | <0.005  | mg/L  | 0.005           |
| Fluoranthene           |      | <0.005  | mg/L  | 0.005           |
| Pyrene                 |      | <0.005  | mg/L  | 0.005           |
| Benzo(a)anthracene     |      | <0.005  | mg/L  | 0.005           |
| Chrysene               |      | <0.005  | mg/L  | 0.005           |
| Benzo(b)fluoranthene   |      | <0.005  | mg/L  | 0.005           |
| Benzo(k)fluoranthene   |      | <0.005  | mg/L  | 0.005           |
| Benzo(a)pyrene         |      | <0.005  | mg/L  | 0.005           |
| Indeno(1,2,3-cd)pyrene |      | <0.005  | mg/L  | 0.005           |
| Dibenzo(a,h)anthracene |      | <0.005  | mg/L  | 0.005           |
| Benzo(g,h,i)perylene   |      | <0.005  | mg/L  | 0.005           |

| Surrogate        | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|------------------|------|--------|-------|--------------|------------------|----------------|
| Nitrobenzene-d5  |      | 43.07  | mg/L  | 80           | 53               | 36 - 107       |
| 2-Fluorobiphenyl |      | 40.47  | mg/L  | 80           | 50               | 54 - 97        |
| Terphenyl-d14    |      | 46.25  | mg/L  | 80           | 57               | 0 - 113        |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

LCS      QC Batch: QC07843

| Param                | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| Naphthalene          |      | 43.509        | mg/L  | 1    | 80                 | <0.005        | 54     |     | 36 - 100     | 20        |
| Acenaphthylene       |      | 50.091        | mg/L  | 1    | 80                 | <0.005        | 62     |     | 56 - 105     | 20        |
| Acenaphthene         |      | 48.008        | mg/L  | 1    | 80                 | <0.005        | 60     |     | 60 - 99      | 20        |
| Fluorene             |      | 52.226        | mg/L  | 1    | 80                 | <0.005        | 65     |     | 57 - 109     | 20        |
| Phenanthrene         |      | 52.679        | mg/L  | 1    | 80                 | <0.005        | 65     |     | 54 - 112     | 20        |
| Anthracene           |      | 52.995        | mg/L  | 1    | 80                 | <0.005        | 66     |     | 52 - 110     | 20        |
| Fluoranthene         |      | 55.630        | mg/L  | 1    | 80                 | <0.005        | 69     |     | 53 - 117     | 20        |
| Pyrene               |      | 47.611        | mg/L  | 1    | 80                 | <0.005        | 59     |     | 42 - 114     | 20        |
| Benzo(a)anthracene   |      | 48.16         | mg/L  | 1    | 80                 | <0.005        | 60     |     | 55 - 107     | 20        |
| Chrysene             |      | 67.653        | mg/L  | 1    | 80                 | <0.005        | 84     |     | 0 - 149      | 20        |
| Benzo(b)fluoranthene |      | 59.63         | mg/L  | 1    | 80                 | <0.005        | 74     |     | 49 - 113     | 20        |
| Benzo(k)fluoranthene |      | 58.13         | mg/L  | 1    | 80                 | <0.005        | 72     |     | 39 - 135     | 20        |

Continued ...

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| Param                  | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|------------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| Benzo(a)pyrene         |      | 60.7          | mg/L  | 1    | 80                 | <0.005        | 75     |     | 50 - 118     | 20        |
| Indeno(1,2,3-cd)pyrene |      | 51.61         | mg/L  | 1    | 80                 | <0.005        | 64     |     | 29 - 120     | 20        |
| Dibenzo(a,h)anthracene |      | 63.46         | mg/L  | 1    | 80                 | <0.005        | 79     |     | 0 - 165      | 20        |
| Benzo(g,h,i)perylene   |      | 51.91         | mg/L  | 1    | 80                 | <0.005        | 64     |     | 39 - 121     | 20        |

| Surrogate        | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|------------------|------|--------|-------|------|--------------|--------|--------------|
| Nitrobenzene-d5  |      | 49.93  | mg/L  | 1    | 80           | 62     | 36 - 107     |
| 2-Fluorobiphenyl |      | 48.91  | mg/L  | 1    | 80           | 61     | 54 - 97      |
| Terphenyl-d14    |      | 37.56  | mg/L  | 1    | 80           | 46     | 0 - 113      |

## LCS

QC Batch: QC07843

| Param                  | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|------------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| Naphthalene            |      | 43.321        | mg/L  | 1    | 80                 | <0.005        | 54     | 0   | 36 - 100     | 20        |
| Acenaphthylene         |      | 50.134        | mg/L  | 1    | 80                 | <0.005        | 62     | 0   | 56 - 105     | 20        |
| Acenaphthene           |      | 48.612        | mg/L  | 1    | 80                 | <0.005        | 60     | 1   | 60 - 99      | 20        |
| Fluorene               |      | 53.222        | mg/L  | 1    | 80                 | <0.005        | 66     | 2   | 57 - 109     | 20        |
| Phenanthrene           |      | 52.507        | mg/L  | 1    | 80                 | <0.005        | 65     | 0   | 54 - 112     | 20        |
| Anthracene             |      | 52.822        | mg/L  | 1    | 80                 | <0.005        | 66     | 0   | 52 - 110     | 20        |
| Fluoranthene           |      | 51.050        | mg/L  | 1    | 80                 | <0.005        | 63     | 8   | 53 - 117     | 20        |
| Pyrene                 |      | 49.841        | mg/L  | 1    | 80                 | <0.005        | 62     | 4   | 42 - 114     | 20        |
| Benzo(a)anthracene     |      | 52.66         | mg/L  | 1    | 80                 | <0.005        | 65     | 9   | 55 - 107     | 20        |
| Chrysene               |      | 75.163        | mg/L  | 1    | 80                 | <0.005        | 93     | 10  | 0 - 149      | 20        |
| Benzo(b)fluoranthene   |      | 58.74         | mg/L  | 1    | 80                 | <0.005        | 73     | 2   | 49 - 113     | 20        |
| Benzo(k)fluoranthene   |      | 61.41         | mg/L  | 1    | 80                 | <0.005        | 76     | 5   | 39 - 135     | 20        |
| Benzo(a)pyrene         |      | 62.24         | mg/L  | 1    | 80                 | <0.005        | 77     | 2   | 50 - 118     | 20        |
| Indeno(1,2,3-cd)pyrene |      | 51.87         | mg/L  | 1    | 80                 | <0.005        | 64     | 0   | 29 - 120     | 20        |
| Dibenzo(a,h)anthracene |      | 64.46         | mg/L  | 1    | 80                 | <0.005        | 80     | 2   | 0 - 165      | 20        |
| Benzo(g,h,i)perylene   |      | 52.92         | mg/L  | 1    | 80                 | <0.005        | 66     | 2   | 39 - 121     | 20        |

| Surrogate        | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|------------------|------|--------|-------|------|--------------|--------|--------------|
| Nitrobenzene-d5  |      | 50.22  | mg/L  | 1    | 80           | 62     | 36 - 107     |
| 2-Fluorobiphenyl |      | 49.75  | mg/L  | 1    | 80           | 62     | 54 - 97      |
| Terphenyl-d14    |      | 39.46  | mg/L  | 1    | 80           | 49     | 0 - 113      |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC07843

Report Date: January 29, 2001  
Westgate

Order Number: A00122118  
1331 Tasker

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| Param                  | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Naphthalene            |      | mg/L  | 60                    | 60.93                  | 101                         | 80 - 120                      | 01/02/01         |
| Acenaphthylene         |      | mg/L  | 60                    | 60.76                  | 101                         | 80 - 120                      | 01/02/01         |
| Acenaphthene           |      | mg/L  | 60                    | 61.20                  | 102                         | 80 - 120                      | 01/02/01         |
| Fluorene               |      | mg/L  | 60                    | 59.29                  | 98                          | 80 - 120                      | 01/02/01         |
| Phenanthrene           |      | mg/L  | 60                    | 61.44                  | 102                         | 80 - 120                      | 01/02/01         |
| Anthracene             |      | mg/L  | 60                    | 60.32                  | 100                         | 80 - 120                      | 01/02/01         |
| Fluoranthene           |      | mg/L  | 60                    | 48.16                  | 80                          | 80 - 120                      | 01/02/01         |
| Pyrene                 |      | mg/L  | 60                    | 58.89                  | 98                          | 80 - 120                      | 01/02/01         |
| Benzo(a)anthracene     |      | mg/L  | 60                    | 60.87                  | 101                         | 80 - 120                      | 01/02/01         |
| Chrysene               |      | mg/L  | 60                    | 59.75                  | 99                          | 80 - 120                      | 01/02/01         |
| Benzo(b)fluoranthene   |      | mg/L  | 60                    | 59.11                  | 98                          | 80 - 120                      | 01/02/01         |
| Benzo(k)fluoranthene   |      | mg/L  | 60                    | 59.48                  | 99                          | 80 - 120                      | 01/02/01         |
| Benzo(a)pyrene         |      | mg/L  | 60                    | 60.47                  | 100                         | 80 - 120                      | 01/02/01         |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60                    | 59.93                  | 99                          | 80 - 120                      | 01/02/01         |
| Dibenzo(a,h)anthracene |      | mg/L  | 60                    | 55.21                  | 92                          | 80 - 120                      | 01/02/01         |
| Benzo(g,h,i)perylene   |      | mg/L  | 60                    | 60.76                  | 101                         | 80 - 120                      | 01/02/01         |
| Nitrobenzene-d5        |      | mg/L  | 60                    | 60.17                  | 100                         | 80 - 120                      | 01/02/01         |
| 2-Fluorobiphenyl       |      | mg/L  | 60                    | 59.03                  | 98                          | 80 - 120                      | 01/02/01         |
| Terphenyl-d14          |      | mg/L  | 60                    | 60.26                  | 100                         | 80 - 120                      | 01/02/01         |

# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: January 29, 2001

Order ID Number: A00122118

Project Number: Westgate  
Project Name: 1331 Tasker  
Project Location: Hobbs, NM

CORRECTED

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

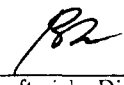
| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 161325 | TMW-1       | Water  | 12/20/00   | 11:30      | 12/21/00      |
| 161326 | TMW-2       | Water  | 12/20/00   | 13:48      | 12/21/00      |
| 161327 | TMW-3       | Water  | 12/20/00   | 11:00      | 12/21/00      |
| 161328 | TMW-4       | Water  | 12/20/00   | 10:18      | 12/21/00      |
| 161329 | TMW-5       | Water  | 12/20/00   | 16:30      | 12/21/00      |
| 161330 | GMW-2       | Water  | 12/20/00   | 14:20      | 12/21/00      |
| 161331 | GMW-4       | Water  | 12/20/00   | 14:49      | 12/21/00      |
| 161332 | GMW-6       | Water  | 12/20/00   | 15:15      | 12/21/00      |
| 161333 | GMW-7       | Water  | 12/20/00   | 15:29      | 12/21/00      |
| 161334 | GMW-8       | Water  | 12/20/00   | 15:50      | 12/21/00      |
| 161335 | GMW-10      | Water  | 12/20/00   | 16:09      | 12/21/00      |
| 161336 | GMW-11      | Water  | 12/20/00   | 16:15      | 12/21/00      |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.

### Order Comment

Sample description corrected for sample 161331 from GMW-6 to GMW-4 and for sample 161332 from GMW-7 to GMW-6.

  
Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 161325 - TMW-1

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.89  | µg/L  | 1        | 50           | 101              | 85 - 117        |
| Toluene-d8           |      | 48.46  | µg/L  | 1        | 50           | 96               | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.06  | µg/L  | 1        | 50           | 92               | 76 - 109        |

### Sample: 161326 - TMW-2

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.37  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 49.43  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 44.23  | µg/L  | 1        | 50           | 88               | 76 - 109        |

### Sample: 161327 - TMW-3

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

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| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.52  | µg/L  | 1        | 50           | 103              | 85 - 117        |
| Toluene-d8           |      | 49.45  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 44.48  | µg/L  | 1        | 50           | 88               | 76 - 109        |

**Sample: 161328 - TMW-4**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RD L |
|--------------|------|--------|-------|----------|------|
| Benzene      |      | <1.00  | µg/L  | 1        | 1    |
| Toluene      |      | <1.00  | µg/L  | 1        | 1    |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1    |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1    |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1    |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.44  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 49.22  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.82  | µg/L  | 1        | 50           | 91               | 76 - 109        |

**Sample: 161329 - TMW-5**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RD L |
|--------------|------|--------|-------|----------|------|
| Benzene      |      | 1.48   | µg/L  | 1        | 1    |
| Toluene      |      | <1.00  | µg/L  | 1        | 1    |
| Ethylbenzene |      | 75.2   | µg/L  | 1        | 1    |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1    |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1    |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.38  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 50.87  | µg/L  | 1        | 50           | 101              | 93 - 109        |
| 4-Bromofluorobenzene |      | 47.43  | µg/L  | 1        | 50           | 94               | 76 - 109        |

**Sample: 161330 - GMW-2**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RD L |
|--------------|------|--------|-------|----------|------|
| Benzene      |      | <1.00  | µg/L  | 1        | 1    |
| Toluene      |      | <1.00  | µg/L  | 1        | 1    |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1    |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1    |

Continued ...

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... Continued Sample: 161330 Analysis: 8260

| Param    | Flag | Result | Units | Dilution | RDL |
|----------|------|--------|-------|----------|-----|
| o-Xylene |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.91  | µg/L  | 1        | 50           | 99               | 85 - 117        |
| Toluene-d8           |      | 48.97  | µg/L  | 1        | 50           | 97               | 93 - 109        |
| 4-Bromofluorobenzene |      | 44.86  | µg/L  | 1        | 50           | 89               | 76 - 109        |

**Sample: 161331 - GMW-4**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.12  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 51.70  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.82  | µg/L  | 1        | 50           | 91               | 76 - 109        |

**Sample: 161332 - GMW-6**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.35  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 51.66  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.36  | µg/L  | 1        | 50           | 92               | 76 - 109        |

**Sample: 161333 - GMW-7**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

Report Date: January 29, 2001  
Westgate

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1331 Tasker

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| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 48.83  | µg/L  | 1        | 50           | 97               | 85 - 117        |
| Toluene-d8           |      | 49.47  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 43.72  | µg/L  | 1        | 50           | 87               | 76 - 109        |

**Sample: 161334 - GMW-8**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.92  | µg/L  | 1        | 50           | 101              | 85 - 117        |
| Toluene-d8           |      | 51.59  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.28  | µg/L  | 1        | 50           | 90               | 76 - 109        |

**Sample: 161335 - GMW-10**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.22  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 51.44  | µg/L  | 1        | 50           | 102              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.15  | µg/L  | 1        | 50           | 90               | 76 - 109        |

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**Sample: 161336 - GMW-11**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.67  | µg/L  | 1        | 50           | 99               | 85 - 117        |
| Toluene-d8           |      | 49.86  | µg/L  | 1        | 50           | 99               | 93 - 109        |
| 4-Bromofluorobenzene |      | 43.05  | µg/L  | 1        | 50           | 86               | 76 - 109        |

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC07735

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <1.00   | µg/L  | 1               |
| Toluene      |      | <1.00   | µg/L  | 1               |
| Ethylbenzene |      | <1.00   | µg/L  | 1               |
| m,p-Xylene   |      | <1.00   | µg/L  | 1               |
| o-Xylene     |      | <1.00   | µg/L  | 1               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 49.02  | µg/L  | 50           | 98               | 85 - 117       |
| Toluene-d8           |      | 49.36  | µg/L  | 50           | 98               | 93 - 109       |
| 4-Bromofluorobenzene |      | 46.48  | µg/L  | 50           | 92               | 76 - 109       |

Method Blank      QCBatch:    QC07759

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <1.00   | µg/L  | 1               |
| Toluene      |      | <1.00   | µg/L  | 1               |
| Ethylbenzene |      | <1.00   | µg/L  | 1               |
| m,p-Xylene   |      | <1.00   | µg/L  | 1               |
| o-Xylene     |      | <1.00   | µg/L  | 1               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 50.56  | µg/L  | 50           | 101              | 85 - 117       |
| Toluene-d8           |      | 51.94  | µg/L  | 50           | 103              | 93 - 109       |
| 4-Bromofluorobenzene |      | 44.69  | µg/L  | 50           | 89               | 76 - 109       |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

LCS      QC Batch: QC07735

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 117           | µg/L  | 1    | 100                | <1.00         | 117    |     | 65 - 147     | 20        |
| Benzene               |      | 101           | µg/L  | 1    | 100                | <1.00         | 101    |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 100           | µg/L  | 1    | 100                | <1.00         | 100    |     | 80 - 119     | 20        |
| Toluene               |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     |     | 78 - 118     | 20        |

Continued ...

... Continued

| Param         | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|---------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| Chlorobenzene |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 50.98  | µg/L  | 1    | 50           | 101    | 85 - 117     |
| Toluene-d8           |      | 47.94  | µg/L  | 1    | 50           | 95     | 93 - 109     |
| 4-Bromofluorobenzene |      | 48.30  | µg/L  | 1    | 50           | 96     | 76 - 109     |

LCSD QC Batch: QC07735

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 115           | µg/L  | 1    | 100                | <1.00         | 115    | 2   | 65 - 147     | 20        |
| Benzene               |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     | 2   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 98            | µg/L  | 1    | 100                | <1.00         | 98     | 2   | 80 - 119     | 20        |
| Toluene               |      | 98            | µg/L  | 1    | 100                | <1.00         | 98     | 1   | 78 - 118     | 20        |
| Chlorobenzene         |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     | 0   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 51.01  | µg/L  | 1    | 50           | 102    | 85 - 117     |
| Toluene-d8           |      | 48.54  | µg/L  | 1    | 50           | 97     | 93 - 109     |
| 4-Bromofluorobenzene |      | 48.57  | µg/L  | 1    | 50           | 97     | 76 - 109     |

LCS QC Batch: QC07759

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 109           | µg/L  | 1    | 100                | <1.00         | 109    |     | 65 - 147     | 20        |
| Benzene               |      | 97            | µg/L  | 1    | 100                | <1.00         | 97     |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 93            | µg/L  | 1    | 100                | <1.00         | 93     |     | 80 - 119     | 20        |
| Toluene               |      | 91            | µg/L  | 1    | 100                | <1.00         | 91     |     | 78 - 118     | 20        |
| Chlorobenzene         |      | 102           | µg/L  | 1    | 100                | <1.00         | 102    |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 50.01  | µg/L  | 1    | 50           | 100    | 85 - 117     |
| Toluene-d8           |      | 51.44  | µg/L  | 1    | 50           | 102    | 93 - 109     |
| 4-Bromofluorobenzene |      | 45.89  | µg/L  | 1    | 50           | 91     | 76 - 109     |

LCSD QC Batch: QC07759

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 109           | µg/L  | 1    | 100                | <1.00         | 109    | 0   | 65 - 147     | 20        |
| Benzene               |      | 98            | µg/L  | 1    | 100                | <1.00         | 98     | 1   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 95            | µg/L  | 1    | 100                | <1.00         | 95     | 2   | 80 - 119     | 20        |
| Toluene               |      | 94            | µg/L  | 1    | 100                | <1.00         | 94     | 3   | 78 - 118     | 20        |
| Chlorobenzene         |      | 103           | µg/L  | 1    | 100                | <1.00         | 103    | 1   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 50.76  | µg/L  | 1    | 50           | 101    | 85 - 117     |
| Toluene-d8           |      | 51.20  | µg/L  | 1    | 50           | 102    | 93 - 109     |
| 4-Bromofluorobenzene |      | 45.26  | µg/L  | 1    | 50           | 90     | 76 - 109     |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1)

QC Batch: QC07735

| Param                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Vinyl Chloride       |      | µg/L  | 100             | 91               | 91                    | 80 - 120                | 12/26/00      |
| 1,1-Dichloroethene   |      | µg/L  | 100             | 90               | 90                    | 80 - 120                | 12/26/00      |
| Chloroform           |      | µg/L  | 100             | 97               | 97                    | 80 - 120                | 12/26/00      |
| 1,2-Dichloropropane  |      | µg/L  | 100             | 85               | 85                    | 80 - 120                | 12/26/00      |
| Toluene              |      | µg/L  | 100             | 85               | 85                    | 80 - 120                | 12/26/00      |
| Chlorobenzene        |      | µg/L  | 100             | 83               | 83                    | 80 - 120                | 12/26/00      |
| Ethylbenzene         |      | µg/L  | 100             | 85               | 85                    | 80 - 120                | 12/26/00      |
| Dibromofluoromethane |      | µg/L  | 50              | 58.17            | 116                   | 80 - 120                | 12/26/00      |
| Toluene-d8           |      | µg/L  | 50              | 49.44            | 98                    | 80 - 120                | 12/26/00      |
| 4-Bromofluorobenzene |      | µg/L  | 50              | 51.44            | 102                   | 80 - 120                | 12/26/00      |

CCV (1)

QC Batch: QC07759

| Param                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Vinyl Chloride       |      | µg/L  | 100             | 89               | 89                    | 80 - 120                | 12/27/00      |
| 1,1-Dichloroethene   |      | µg/L  | 100             | 96               | 96                    | 80 - 120                | 12/27/00      |
| Chloroform           |      | µg/L  | 100             | 97               | 97                    | 80 - 120                | 12/27/00      |
| 1,2-Dichloropropane  |      | µg/L  | 100             | 92               | 92                    | 80 - 120                | 12/27/00      |
| Toluene              |      | µg/L  | 100             | 89               | 89                    | 80 - 120                | 12/27/00      |
| Chlorobenzene        |      | µg/L  | 100             | 94               | 94                    | 80 - 120                | 12/27/00      |
| Ethylbenzene         |      | µg/L  | 100             | 96               | 96                    | 80 - 120                | 12/27/00      |
| Dibromofluoromethane |      | µg/L  | 50              | 50.45            | 100                   | 80 - 120                | 12/27/00      |
| Toluene-d8           |      | µg/L  | 50              | 50.19            | 100                   | 80 - 120                | 12/27/00      |
| 4-Bromofluorobenzene |      | µg/L  | 50              | 48.90            | 97                    | 80 - 120                | 12/27/00      |

# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: January 8, 2001

Order ID Number: A00122118

Project Number: Westgate  
Project Name: 1331 Tasker  
Project Location: Hobbs.NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 161325 | TMW-1       | Water  | 12/20/00   | 11:30      | 12/21/00      |
| 161326 | TMW-2       | Water  | 12/20/00   | 13:48      | 12/21/00      |
| 161327 | TMW-3       | Water  | 12/20/00   | 11:00      | 12/21/00      |
| 161328 | TMW-4       | Water  | 12/20/00   | 10:18      | 12/21/00      |
| 161329 | TMW-5       | Water  | 12/20/00   | 16:30      | 12/21/00      |
| 161330 | GMW-2       | Water  | 12/20/00   | 14:20      | 12/21/00      |
| 161331 | GMW-6 4     | Water  | 12/20/00   | 14:49      | 12/21/00      |
| 161332 | GMW-7 4     | Water  | 12/20/00   | 15:15      | 12/21/00      |
| 161333 | GMW-7       | Water  | 12/20/00   | 15:29      | 12/21/00      |
| 161334 | GMW-8       | Water  | 12/20/00   | 15:50      | 12/21/00      |
| 161335 | GMW-10      | Water  | 12/20/00   | 16:09      | 12/21/00      |
| 161336 | GMW-11      | Water  | 12/20/00   | 16:15      | 12/21/00      |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

  
Dr. Blair Leftwich, Director

## Analytical and Quality Control Report

### Sample: 161325 - TMW-1

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 48.47  | mg/L  | 1        | 80           | 60               | 36 - 107        |
| 2-Fluorobiphenyl |      | 49.58  | mg/L  | 1        | 80           | 61               | 54 - 97         |
| Terphenyl-d14    |      | 37.93  | mg/L  | 1        | 80           | 47               | 0 - 113         |

### Sample: 161326 - TMW-2

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 41.88  | mg/L  | 1        | 80           | 52               | 36 - 107        |
| 2-Fluorobiphenyl |      | 41.09  | mg/L  | 1        | 80           | 51               | 54 - 97         |
| Terphenyl-d14    |      | 49.48  | mg/L  | 1        | 80           | 61               | 0 - 113         |

**Sample: 161327 - TMW-3**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 43.02  | mg/L  | 1        | 80           | 53               | 36 - 107        |
| 2-Fluorobiphenyl |      | 41.84  | mg/L  | 1        | 80           | 52               | 54 - 97         |
| Terphenyl-d14    |      | 44.63  | mg/L  | 1        | 80           | 55               | 0 - 113         |

**Sample: 161328 - TMW-4**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                | Flag | Result | Units | Dilution | RDL   |
|----------------------|------|--------|-------|----------|-------|
| Naphthalene          |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene       |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene       |      | <0.005 | mg/L  | 1        | 0.005 |

Continued ...

... Continued Sample: 161328 Analysis: PAH

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Indeno(1.2.3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 43.27  | mg/L  | 1        | 80           | 54               | 36 - 107        |
| 2-Fluorobiphenyl |      | 45.69  | mg/L  | 1        | 80           | 57               | 54 - 97         |
| Terphenyl-d14    |      | 47.30  | mg/L  | 1        | 80           | 59               | 0 - 113         |

**Sample: 161329 - TMW-5**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1.2.3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 41.09  | mg/L  | 1        | 80           | 51               | 36 - 107        |
| 2-Fluorobiphenyl |      | 42.15  | mg/L  | 1        | 80           | 52               | 54 - 97         |
| Terphenyl-d14    |      | 29.38  | mg/L  | 1        | 80           | 36               | 0 - 113         |

**Sample: 161330 - GMW-2**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param          | Flag | Result | Units | Dilution | RDL   |
|----------------|------|--------|-------|----------|-------|
| Naphthalene    |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene       |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |

Continued ...

... Continued Sample: 161330 Analysis: PAH

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 50.34  | mg/L  | 1        | 80           | 62               | 36 - 107        |
| 2-Fluorobiphenyl |      | 49.61  | mg/L  | 1        | 80           | 62               | 54 - 97         |
| Terphenyl-d14    |      | 41.77  | mg/L  | 1        | 80           | 52               | 0 - 113         |

**Sample: 161331 - GMW-6**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 39.70  | mg/L  | 1        | 80           | 49               | 36 - 107        |
| 2-Fluorobiphenyl |      | 36.70  | mg/L  | 1        | 80           | 45               | 54 - 97         |
| Terphenyl-d14    |      | 37.27  | mg/L  | 1        | 80           | 46               | 0 - 113         |

**Sample: 161332 - GMW-7**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 40.37  | mg/L  | 1        | 80           | 50               | 36 - 107        |
| 2-Fluorobiphenyl |      | 39.22  | mg/L  | 1        | 80           | 49               | 54 - 97         |
| Terphenyl-d14    |      | 42.48  | mg/L  | 1        | 80           | 53               | 0 - 113         |

**Sample: 161333 - GMW-7**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 42.04  | mg/L  | 1        | 80           | 52               | 36 - 107        |
| 2-Fluorobiphenyl |      | 42.95  | mg/L  | 1        | 80           | 53               | 54 - 97         |
| Terphenyl-d14    |      | 29.82  | mg/L  | 1        | 80           | 37               | 0 - 113         |

**Sample: 161334 - GMW-8**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 43.20  | mg/L  | 1        | 80           | 54               | 36 - 107        |
| 2-Fluorobiphenyl |      | 42.15  | mg/L  | 1        | 80           | 52               | 54 - 97         |
| Terphenyl-d14    |      | 35.46  | mg/L  | 1        | 80           | 44               | 0 - 113         |

**Sample: 161335 - GMW-10**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC07843 Date Analyzed: 1/2/01  
Analyst: MA Preparation Method: E 3510C Prep Batch: PB06859 Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

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| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
| Nitrobenzene-d5  |      | 38.80  | mg/L  | 1        | 80           | 48               | 36 - 107        |
| 2-Fluorobiphenyl |      | 38.35  | mg/L  | 1        | 80           | 47               | 54 - 97         |
| Terphenyl-d14    |      | 45.19  | mg/L  | 1        | 80           | 56               | 0 - 113         |

**Sample: 161336 - GMW-11**

Analysis: PAH      Analytical Method: S 8270C      QC Batch: QC07843      Date Analyzed: 1/2/01  
Analyst: MA      Preparation Method: E 3510C      Prep Batch: PB06859      Date Prepared: 12/27/00

| Param                  | Flag | Result | Units | Dilution | RDL   |
|------------------------|------|--------|-------|----------|-------|
| Naphthalene            |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthylene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Acenaphthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluorene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Phenanthrene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Anthracene             |      | <0.005 | mg/L  | 1        | 0.005 |
| Fluoranthene           |      | <0.005 | mg/L  | 1        | 0.005 |
| Pyrene                 |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)anthracene     |      | <0.005 | mg/L  | 1        | 0.005 |
| Chrysene               |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(b)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(k)fluoranthene   |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(a)pyrene         |      | <0.005 | mg/L  | 1        | 0.005 |
| Indeno(1,2,3-cd)pyrene |      | <0.005 | mg/L  | 1        | 0.005 |
| Dibenzo(a,h)anthracene |      | <0.005 | mg/L  | 1        | 0.005 |
| Benzo(g,h,i)perylene   |      | <0.005 | mg/L  | 1        | 0.005 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 38.34  | mg/L  | 1        | 80           | 47               | 36 - 107        |
| 2-Fluorobiphenyl |      | 38.86  | mg/L  | 1        | 80           | 48               | 54 - 97         |
| Terphenyl-d14    |      | 36.42  | mg/L  | 1        | 80           | 45               | 0 - 113         |

**Quality Control Report  
Method Blank**

**Sample: Method Blank**

QCBatch: QC07843

| Param          | Flag | Results | Units | Reporting Limit |
|----------------|------|---------|-------|-----------------|
| Naphthalene    |      | <0.005  | mg/L  | 0.005           |
| Acenaphthylene |      | <0.005  | mg/L  | 0.005           |
| Acenaphthene   |      | <0.005  | mg/L  | 0.005           |
| Fluorene       |      | <0.005  | mg/L  | 0.005           |
| Phenanthrene   |      | <0.005  | mg/L  | 0.005           |
| Anthracene     |      | <0.005  | mg/L  | 0.005           |

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| Param                  | Flag | Results | Units | Reporting Limit |
|------------------------|------|---------|-------|-----------------|
| Fluoranthene           |      | <0.005  | mg/L  | 0.005           |
| Pyrene                 |      | <0.005  | mg/L  | 0.005           |
| Benzo(a)anthracene     |      | <0.005  | mg/L  | 0.005           |
| Chrysene               |      | <0.005  | mg/L  | 0.005           |
| Benzo(b)fluoranthene   |      | <0.005  | mg/L  | 0.005           |
| Benzo(k)fluoranthene   |      | <0.005  | mg/L  | 0.005           |
| Benzo(a)pyrene         |      | <0.005  | mg/L  | 0.005           |
| Indeno(1,2,3-cd)pyrene |      | <0.005  | mg/L  | 0.005           |
| Dibenzo(a,h)anthracene |      | <0.005  | mg/L  | 0.005           |
| Benzo(g,h,i)perylene   |      | <0.005  | mg/L  | 0.005           |

| Surrogate        | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|------------------|------|--------|-------|--------------|------------------|----------------|
| Nitrobenzene-d5  |      | 43.07  | mg/L  | 80           | 53               | 36 - 107       |
| 2-Fluorobiphenyl |      | 40.47  | mg/L  | 80           | 50               | 54 - 97        |
| Terphenyl-d14    |      | 46.25  | mg/L  | 80           | 57               | 0 - 113        |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC07843

| Param                  | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|------------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| Naphthalene            |      | 43.509        | mg/L  | 1    | 80                 | <0.005        | 54     |     | 36 - 100     | 20        |
| Acenaphthylene         |      | 50.091        | mg/L  | 1    | 80                 | <0.005        | 62     |     | 56 - 105     | 20        |
| Acenaphthene           |      | 48.008        | mg/L  | 1    | 80                 | <0.005        | 60     |     | 60 - 99      | 20        |
| Fluorene               |      | 52.226        | mg/L  | 1    | 80                 | <0.005        | 65     |     | 57 - 109     | 20        |
| Phenanthrene           |      | 52.679        | mg/L  | 1    | 80                 | <0.005        | 65     |     | 54 - 112     | 20        |
| Anthracene             |      | 52.995        | mg/L  | 1    | 80                 | <0.005        | 66     |     | 52 - 110     | 20        |
| Fluoranthene           |      | 55.630        | mg/L  | 1    | 80                 | <0.005        | 69     |     | 53 - 117     | 20        |
| Pyrene                 |      | 47.611        | mg/L  | 1    | 80                 | <0.005        | 59     |     | 42 - 114     | 20        |
| Benzo(a)anthracene     |      | 48.16         | mg/L  | 1    | 80                 | <0.005        | 60     |     | 55 - 107     | 20        |
| Chrysene               |      | 67.653        | mg/L  | 1    | 80                 | <0.005        | 84     |     | 0 - 149      | 20        |
| Benzo(b)fluoranthene   |      | 59.63         | mg/L  | 1    | 80                 | <0.005        | 74     |     | 49 - 113     | 20        |
| Benzo(k)fluoranthene   |      | 58.13         | mg/L  | 1    | 80                 | <0.005        | 72     |     | 39 - 135     | 20        |
| Benzo(a)pyrene         |      | 60.7          | mg/L  | 1    | 80                 | <0.005        | 75     |     | 50 - 118     | 20        |
| Indeno(1,2,3-cd)pyrene |      | 51.61         | mg/L  | 1    | 80                 | <0.005        | 64     |     | 29 - 120     | 20        |
| Dibenzo(a,h)anthracene |      | 63.46         | mg/L  | 1    | 80                 | <0.005        | 79     |     | 0 - 165      | 20        |
| Benzo(g,h,i)perylene   |      | 51.91         | mg/L  | 1    | 80                 | <0.005        | 64     |     | 39 - 121     | 20        |

| Surrogate        | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|------------------|------|--------|-------|------|--------------|--------|--------------|
| Nitrobenzene-d5  |      | 49.93  | mg/L  | 1    | 80           | 62     | 36 - 107     |
| 2-Fluorobiphenyl |      | 48.91  | mg/L  | 1    | 80           | 61     | 54 - 97      |
| Terphenyl-d14    |      | 37.56  | mg/L  | 1    | 80           | 46     | 0 - 113      |

Sample: LCSD

QC Batch: QC07843

| Param                  | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|------------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| Naphthalene            |      | 43.321        | mg/L  | 1    | 80                 | <0.005        | 54     | 0   | 36 - 100     | 20        |
| Acenaphthylene         |      | 50.134        | mg/L  | 1    | 80                 | <0.005        | 62     | 0   | 56 - 105     | 20        |
| Acenaphthene           |      | 48.612        | mg/L  | 1    | 80                 | <0.005        | 60     | 1   | 60 - 99      | 20        |
| Fluorene               |      | 53.222        | mg/L  | 1    | 80                 | <0.005        | 66     | 2   | 57 - 109     | 20        |
| Phenanthrene           |      | 52.507        | mg/L  | 1    | 80                 | <0.005        | 65     | 0   | 54 - 112     | 20        |
| Anthracene             |      | 52.822        | mg/L  | 1    | 80                 | <0.005        | 66     | 0   | 52 - 110     | 20        |
| Fluoranthene           |      | 51.050        | mg/L  | 1    | 80                 | <0.005        | 63     | 8   | 53 - 117     | 20        |
| Pyrene                 |      | 49.841        | mg/L  | 1    | 80                 | <0.005        | 62     | 4   | 42 - 114     | 20        |
| Benzo(a)anthracene     |      | 52.66         | mg/L  | 1    | 80                 | <0.005        | 65     | 9   | 55 - 107     | 20        |
| Chrysene               |      | 75.163        | mg/L  | 1    | 80                 | <0.005        | 93     | 10  | 0 - 149      | 20        |
| Benzo(b)fluoranthene   |      | 58.74         | mg/L  | 1    | 80                 | <0.005        | 73     | 2   | 49 - 113     | 20        |
| Benzo(k)fluoranthene   |      | 61.41         | mg/L  | 1    | 80                 | <0.005        | 76     | 5   | 39 - 135     | 20        |
| Benzo(a)pyrene         |      | 62.24         | mg/L  | 1    | 80                 | <0.005        | 77     | 2   | 50 - 118     | 20        |
| Indeno(1,2,3-cd)pyrene |      | 51.87         | mg/L  | 1    | 80                 | <0.005        | 64     | 0   | 29 - 120     | 20        |
| Dibenzo(a,h)anthracene |      | 64.46         | mg/L  | 1    | 80                 | <0.005        | 80     | 2   | 0 - 165      | 20        |
| Benzo(g,h,i)perylene   |      | 52.92         | mg/L  | 1    | 80                 | <0.005        | 66     | 2   | 39 - 121     | 20        |

| Surrogate        | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|------------------|------|--------|-------|------|--------------|--------|--------------|
| Nitrobenzene-d5  |      | 50.22  | mg/L  | 1    | 80           | 62     | 36 - 107     |
| 2-Fluorobiphenyl |      | 49.75  | mg/L  | 1    | 80           | 62     | 54 - 97      |
| Terphenyl-d14    |      | 39.46  | mg/L  | 1    | 80           | 49     | 0 - 113      |

## Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC07843

| Param                  | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Naphthalene            |      | mg/L  | 60              | 60.93            | 101                   | 80 - 120                | 1/2/01        |
| Acenaphthylene         |      | mg/L  | 60              | 60.76            | 101                   | 80 - 120                | 1/2/01        |
| Acenaphthene           |      | mg/L  | 60              | 61.20            | 102                   | 80 - 120                | 1/2/01        |
| Fluorene               |      | mg/L  | 60              | 59.29            | 98                    | 80 - 120                | 1/2/01        |
| Phenanthrene           |      | mg/L  | 60              | 61.44            | 102                   | 80 - 120                | 1/2/01        |
| Anthracene             |      | mg/L  | 60              | 60.32            | 100                   | 80 - 120                | 1/2/01        |
| Fluoranthene           |      | mg/L  | 60              | 48.16            | 80                    | 80 - 120                | 1/2/01        |
| Pyrene                 |      | mg/L  | 60              | 58.89            | 98                    | 80 - 120                | 1/2/01        |
| Benzo(a)anthracene     |      | mg/L  | 60              | 60.87            | 101                   | 80 - 120                | 1/2/01        |
| Chrysene               |      | mg/L  | 60              | 59.75            | 99                    | 80 - 120                | 1/2/01        |
| Benzo(b)fluoranthene   |      | mg/L  | 60              | 59.11            | 98                    | 80 - 120                | 1/2/01        |
| Benzo(k)fluoranthene   |      | mg/L  | 60              | 59.48            | 99                    | 80 - 120                | 1/2/01        |
| Benzo(a)pyrene         |      | mg/L  | 60              | 60.47            | 100                   | 80 - 120                | 1/2/01        |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60              | 59.93            | 99                    | 80 - 120                | 1/2/01        |
| Dibenzo(a,h)anthracene |      | mg/L  | 60              | 55.21            | 92                    | 80 - 120                | 1/2/01        |

Continued ...

... Continued

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzo(g,h,i)perylene |      | mg/L  | 60                    | 60.76                  | 101                         | 80 - 120                      | 1/2/01           |
| Nitrobenzene-d5      |      | mg/L  | 60                    | 60.17                  | 100                         | 80 - 120                      | 1/2/01           |
| 2-Fluorobiphenyl     |      | mg/L  | 60                    | 59.03                  | 98                          | 80 - 120                      | 1/2/01           |
| Terphenyl-d14        |      | mg/L  | 60                    | 60.26                  | 100                         | 80 - 120                      | 1/2/01           |

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## Analytical and Quality Control Report

Cliff Brunson  
BBC International Inc.  
P.O. Box 805  
Hobbs, NM 88241

Report Date: January 8, 2001

Order ID Number: A00122118

Project Number: Westgate  
Project Name: 1331 Tasker  
Project Location: Hobbs, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

| Sample | Description        | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------------|--------|------------|------------|---------------|
| 161325 | TMW-1              | Water  | 12/20/00   | 11:30      | 12/21/00      |
| 161326 | TMW-2              | Water  | 12/20/00   | 13:48      | 12/21/00      |
| 161327 | TMW-3              | Water  | 12/20/00   | 11:00      | 12/21/00      |
| 161328 | TMW-4              | Water  | 12/20/00   | 10:18      | 12/21/00      |
| 161329 | TMW-5              | Water  | 12/20/00   | 16:30      | 12/21/00      |
| 161330 | GMW-2              | Water  | 12/20/00   | 14:20      | 12/21/00      |
| 161331 | GMW-6 <sup>4</sup> | Water  | 12/20/00   | 14:49      | 12/21/00      |
| 161332 | GMW-7              | Water  | 12/20/00   | 15:15      | 12/21/00      |
| 161333 | GMW-7              | Water  | 12/20/00   | 15:29      | 12/21/00      |
| 161334 | GMW-8              | Water  | 12/20/00   | 15:50      | 12/21/00      |
| 161335 | GMW-10             | Water  | 12/20/00   | 16:09      | 12/21/00      |
| 161336 | GMW-11             | Water  | 12/20/00   | 16:15      | 12/21/00      |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.

  
Dr. Blair Leftwich, Director

## Analytical and Quality Control Report

### Sample: 161325 - TMW-1

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.89  | µg/L  | 1        | 50           | 101              | 85 - 117        |
| Toluene-d8           |      | 48.46  | µg/L  | 1        | 50           | 96               | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.06  | µg/L  | 1        | 50           | 92               | 76 - 109        |

### Sample: 161326 - TMW-2

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.37  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 49.43  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 44.23  | µg/L  | 1        | 50           | 88               | 76 - 109        |

### Sample: 161327 - TMW-3

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.52  | µg/L  | 1        | 50           | 103              | 85 - 117        |
| Toluene-d8           |      | 49.45  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 44.48  | µg/L  | 1        | 50           | 88               | 76 - 109        |

**Sample: 161328 - TMW-4**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.44  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 49.22  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.82  | µg/L  | 1        | 50           | 91               | 76 - 109        |

**Sample: 161329 - TMW-5**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | 1.48   | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | 75.2   | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.38  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 50.87  | µg/L  | 1        | 50           | 101              | 93 - 109        |
| 4-Bromofluorobenzene |      | 47.43  | µg/L  | 1        | 50           | 94               | 76 - 109        |

**Sample: 161330 - GMW-2**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |

Continued ...

... Continued Sample: 161330 Analysis: 8260

| Param  | Flag | Result | Units | Dilution | RDL |
|--------|------|--------|-------|----------|-----|
| Xylene |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.91  | µg/L  | 1        | 50           | 99               | 85 - 117        |
| Toluene-d8           |      | 48.97  | µg/L  | 1        | 50           | 97               | 93 - 109        |
| 4-Bromofluorobenzene |      | 44.86  | µg/L  | 1        | 50           | 89               | 76 - 109        |

**Sample: 161331 - GMW-6**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.12  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 51.70  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.82  | µg/L  | 1        | 50           | 91               | 76 - 109        |

**Sample: 161332 - GMW-7**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.35  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 51.66  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 46.36  | µg/L  | 1        | 50           | 92               | 76 - 109        |

**Sample: 161333 - GMW-7**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 48.83  | µg/L  | 1        | 50           | 97               | 85 - 117        |
| Toluene-d8           |      | 49.47  | µg/L  | 1        | 50           | 98               | 93 - 109        |
| 4-Bromofluorobenzene |      | 43.72  | µg/L  | 1        | 50           | 87               | 76 - 109        |

**Sample: 161334 - GMW-8**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 50.92  | µg/L  | 1        | 50           | 101              | 85 - 117        |
| Toluene-d8           |      | 51.59  | µg/L  | 1        | 50           | 103              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.28  | µg/L  | 1        | 50           | 90               | 76 - 109        |

**Sample: 161335 - GMW-10**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07759 Date Analyzed: 12/27/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06797 Date Prepared: 12/27/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 51.22  | µg/L  | 1        | 50           | 102              | 85 - 117        |
| Toluene-d8           |      | 51.44  | µg/L  | 1        | 50           | 102              | 93 - 109        |
| 4-Bromofluorobenzene |      | 45.15  | µg/L  | 1        | 50           | 90               | 76 - 109        |

**Sample: 161336 - GMW-11**

Analysis: 8260 Analytical Method: S 8260B QC Batch: QC07735 Date Analyzed: 12/26/00  
Analyst: JG Preparation Method: E 5030B Prep Batch: PB06766 Date Prepared: 12/26/00

| Param        | Flag | Result | Units | Dilution | RDL |
|--------------|------|--------|-------|----------|-----|
| Benzene      |      | <1.00  | µg/L  | 1        | 1   |
| Toluene      |      | <1.00  | µg/L  | 1        | 1   |
| Ethylbenzene |      | <1.00  | µg/L  | 1        | 1   |
| m,p-Xylene   |      | <1.00  | µg/L  | 1        | 1   |
| o-Xylene     |      | <1.00  | µg/L  | 1        | 1   |

| Surrogate            | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|----------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Dibromofluoromethane |      | 49.67  | µg/L  | 1        | 50           | 99               | 85 - 117        |
| Toluene-d8           |      | 49.86  | µg/L  | 1        | 50           | 99               | 93 - 109        |
| 4-Bromofluorobenzene |      | 43.05  | µg/L  | 1        | 50           | 86               | 76 - 109        |

**Quality Control Report  
Method Blank**

**Sample: Method Blank**

QCBatch: QC07735

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <1.00   | µg/L  | 1               |
| Toluene      |      | <1.00   | µg/L  | 1               |
| Ethylbenzene |      | <1.00   | µg/L  | 1               |
| m,p-Xylene   |      | <1.00   | µg/L  | 1               |
| o-Xylene     |      | <1.00   | µg/L  | 1               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 49.02  | µg/L  | 50           | 98               | 85 - 117       |
| Toluene-d8           |      | 49.36  | µg/L  | 50           | 98               | 93 - 109       |
| 4-Bromofluorobenzene |      | 46.48  | µg/L  | 50           | 92               | 76 - 109       |

**Sample: Method Blank**

QCBatch: QC07759

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <1.00   | µg/L  | 1               |
| Toluene      |      | <1.00   | µg/L  | 1               |
| Ethylbenzene |      | <1.00   | µg/L  | 1               |
| m,p-Xylene   |      | <1.00   | µg/L  | 1               |
| o-Xylene     |      | <1.00   | µg/L  | 1               |

| Surrogate            | Flag | Result | Units | Spike Amount | Percent Recovery | Recovery Limit |
|----------------------|------|--------|-------|--------------|------------------|----------------|
| Dibromofluoromethane |      | 50.56  | µg/L  | 50           | 101              | 85 - 117       |
| Toluene-d8           |      | 51.94  | µg/L  | 50           | 103              | 93 - 109       |
| 4-Bromofluorobenzene |      | 44.69  | µg/L  | 50           | 89               | 76 - 109       |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Sample: LCS

QC Batch: QC07735

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 117           | µg/L  | 1    | 100                | <1.00         | 117    |     | 65 - 147     | 20        |
| Benzene               |      | 101           | µg/L  | 1    | 100                | <1.00         | 101    |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 100           | µg/L  | 1    | 100                | <1.00         | 100    |     | 80 - 119     | 20        |
| Toluene               |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     |     | 78 - 118     | 20        |
| Chlorobenzene         |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 50.98  | µg/L  | 1    | 50           | 101    | 85 - 117     |
| Toluene-d8           |      | 47.94  | µg/L  | 1    | 50           | 95     | 93 - 109     |
| 4-Bromofluorobenzene |      | 48.30  | µg/L  | 1    | 50           | 96     | 76 - 109     |

Sample: LCSD

QC Batch: QC07735

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 115           | µg/L  | 1    | 100                | <1.00         | 115    | 2   | 65 - 147     | 20        |
| Benzene               |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     | 2   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 98            | µg/L  | 1    | 100                | <1.00         | 98     | 2   | 80 - 119     | 20        |
| Toluene               |      | 98            | µg/L  | 1    | 100                | <1.00         | 98     | 1   | 78 - 118     | 20        |
| Chlorobenzene         |      | 99            | µg/L  | 1    | 100                | <1.00         | 99     | 0   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 51.01  | µg/L  | 1    | 50           | 102    | 85 - 117     |
| Toluene-d8           |      | 48.54  | µg/L  | 1    | 50           | 97     | 93 - 109     |
| 4-Bromofluorobenzene |      | 48.57  | µg/L  | 1    | 50           | 97     | 76 - 109     |

Sample: LCS

QC Batch: QC07759

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 109           | µg/L  | 1    | 100                | <1.00         | 109    |     | 65 - 147     | 20        |
| Benzene               |      | 97            | µg/L  | 1    | 100                | <1.00         | 97     |     | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 93            | µg/L  | 1    | 100                | <1.00         | 93     |     | 80 - 119     | 20        |
| Toluene               |      | 91            | µg/L  | 1    | 100                | <1.00         | 91     |     | 78 - 118     | 20        |
| Chlorobenzene         |      | 102           | µg/L  | 1    | 100                | <1.00         | 102    |     | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 50.01  | µg/L  | 1    | 50           | 100    | 85 - 117     |
| Toluene-d8           |      | 51.44  | µg/L  | 1    | 50           | 102    | 93 - 109     |
| 4-Bromofluorobenzene |      | 45.89  | µg/L  | 1    | 50           | 91     | 76 - 109     |

Sample: LCSD

QC Batch: QC07759

| Param                 | Flag | Sample Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec. | RPD | % Rec. Limit | RPD Limit |
|-----------------------|------|---------------|-------|------|--------------------|---------------|--------|-----|--------------|-----------|
| 1,1-Dichloroethene    |      | 109           | µg/L  | 1    | 100                | <1.00         | 109    | 0   | 65 - 147     | 20        |
| Benzene               |      | 98            | µg/L  | 1    | 100                | <1.00         | 98     | 1   | 79 - 124     | 20        |
| Trichloroethene (TCE) |      | 95            | µg/L  | 1    | 100                | <1.00         | 95     | 2   | 80 - 119     | 20        |
| Toluene               |      | 94            | µg/L  | 1    | 100                | <1.00         | 94     | 3   | 78 - 118     | 20        |
| Chlorobenzene         |      | 103           | µg/L  | 1    | 100                | <1.00         | 103    | 1   | 85 - 118     | 20        |

| Surrogate            | Flag | Result | Units | Dil. | Spike Amount | % Rec. | % Rec. Limit |
|----------------------|------|--------|-------|------|--------------|--------|--------------|
| Dibromofluoromethane |      | 50.76  | µg/L  | 1    | 50           | 101    | 85 - 117     |
| Toluene-d8           |      | 51.20  | µg/L  | 1    | 50           | 102    | 93 - 109     |
| 4-Bromofluorobenzene |      | 45.26  | µg/L  | 1    | 50           | 90     | 76 - 109     |

## Quality Control Report Continuing Calibration Verification Standards

Sample: CCV (1)

QC Batch: QC07735

| Param                | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Vinyl Chloride       |      | µg/L  | 100             | 91               | 91                    | 80 - 120                | 12/26/00      |
| 1,1-Dichloroethene   |      | µg/L  | 100             | 90               | 90                    | 80 - 120                | 12/26/00      |
| Chloroform           |      | µg/L  | 100             | 97               | 97                    | 80 - 120                | 12/26/00      |
| 1,2-Dichloropropane  |      | µg/L  | 100             | 85               | 85                    | 80 - 120                | 12/26/00      |
| Toluene              |      | µg/L  | 100             | 85               | 85                    | 80 - 120                | 12/26/00      |
| Chlorobenzene        |      | µg/L  | 100             | 83               | 83                    | 80 - 120                | 12/26/00      |
| Ethylbenzene         |      | µg/L  | 100             | 85               | 85                    | 80 - 120                | 12/26/00      |
| Dibromofluoromethane |      | µg/L  | 50              | 58.17            | 116                   | 80 - 120                | 12/26/00      |

Continued ...

... Continued

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Toluene-d8           |      | µg/L  | 50                    | 49.44                  | 98                          | 80 - 120                      | 12/26/00         |
| 4-Bromofluorobenzene |      | µg/L  | 50                    | 51.44                  | 102                         | 80 - 120                      | 12/26/00         |

Sample: CCV (1)

QC Batch: QC07759

| Param                | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Vinyl Chloride       |      | µg/L  | 100                   | 89                     | 89                          | 80 - 120                      | 12/27/00         |
| 1,1-Dichloroethene   |      | µg/L  | 100                   | 96                     | 96                          | 80 - 120                      | 12/27/00         |
| Chloroform           |      | µg/L  | 100                   | 97                     | 97                          | 80 - 120                      | 12/27/00         |
| 1,2-Dichloropropane  |      | µg/L  | 100                   | 92                     | 92                          | 80 - 120                      | 12/27/00         |
| Toluene              |      | µg/L  | 100                   | 89                     | 89                          | 80 - 120                      | 12/27/00         |
| Chlorobenzene        |      | µg/L  | 100                   | 94                     | 94                          | 80 - 120                      | 12/27/00         |
| Ethylbenzene         |      | µg/L  | 100                   | 96                     | 96                          | 80 - 120                      | 12/27/00         |
| Dibromofluoromethane |      | µg/L  | 50                    | 50.45                  | 100                         | 80 - 120                      | 12/27/00         |
| Toluene-d8           |      | µg/L  | 50                    | 50.19                  | 100                         | 80 - 120                      | 12/27/00         |
| 4-Bromofluorobenzene |      | µg/L  | 50                    | 48.90                  | 97                          | 80 - 120                      | 12/27/00         |

4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A00722118

LAB Order ID # 700100110

Company Name: \_\_\_\_\_ Phone #: \_\_\_\_\_

\_\_\_\_\_  
(Street, City, Zip)      Fax #:

Contact Person:

...to ...

Project No. \_\_\_\_\_

Project Location: Sampler S:

|  |   |   |        |
|--|---|---|--------|
|  | S | t | MATRIX |
|--|---|---|--------|

| FIELD CODE |  | # CONTAINER   |  |
|------------|--|---------------|--|
| WATER      |  | Volume/Amount |  |
| SOIL       |  |               |  |
| AIR        |  |               |  |
| SLUDGE     |  |               |  |
| HCL        |  | METHOD        |  |
| HNO3       |  |               |  |
| ICE        |  |               |  |
| NONE       |  |               |  |
| DATE       |  |               |  |
| TIME       |  |               |  |

|       |      |   |   |       |       |
|-------|------|---|---|-------|-------|
| 6/325 | 19.6 | ✓ | ✓ | 11.30 | 11.30 |
|-------|------|---|---|-------|-------|

|  |   |      |   |         |       |
|--|---|------|---|---------|-------|
|  | 1 | 6/10 | ✓ | 18-5000 | 11.50 |
|--|---|------|---|---------|-------|

[illegible]

|    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 27 | 7 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

[illegible]

|    |       |   |      |   |          |       |
|----|-------|---|------|---|----------|-------|
| 28 | 7m 09 | 2 | 1:10 | ✓ | 11.07.20 | 16.18 |
|----|-------|---|------|---|----------|-------|

[illegible][illegible]

30 10/11/20 10/11/20 10/11/20 10/11/20 10/11/20

|                       |                       |
|-----------------------|-----------------------|
| Received by:<br>Date: | Received by:<br>Date: |
|-----------------------|-----------------------|

|                                     |                      |                   |              |       |       |
|-------------------------------------|----------------------|-------------------|--------------|-------|-------|
| Relinquished by: <i>[Signature]</i> | Date: <i>1/26/00</i> | Time: <i>1:21</i> | Received by: | Date: | Time: |
|-------------------------------------|----------------------|-------------------|--------------|-------|-------|

| Received by.       | Date. | Time. | Received by.       | Date. | Time. |
|--------------------|-------|-------|--------------------|-------|-------|
| <i>[Signature]</i> |       |       | <i>[Signature]</i> |       |       |

UW 11/12/2000 1.000

constitutes agreement to terms and conditions listed on reverse side of C.O.C.

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

|                                                  |
|--------------------------------------------------|
| MTBE 8021B/602                                   |
| BTEX 8021B/602                                   |
| TPH 418.1/TX1005                                 |
| PAH 8270C                                        |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg              |
| TCLP Volatiles                                   |
| TCLP Semi Volatiles                              |
| TCLP Pesticides                                  |
| RCI                                              |
| GC-MS Vol. 8260B/604 <i>BTEX only</i>            |
| GC/MS Semi. Vol. 8270C/605 <i>PAH</i>            |
| PCB's 8082/608                                   |
| Pesticides 8081A/608                             |
| BOD, TSS, pH                                     |
|                                                  |
|                                                  |
|                                                  |
|                                                  |
| Turn Around Time if different from standard      |
| Hold                                             |

**LAB USE ONLY**

| Intact    | Y / N |
|-----------|-------|
| Headspace | Y / N |
| Temp      | °     |

Log-in Review 1/2

\_\_\_\_\_



4725 Ripley Dr., Ste A  
El Paso, Texas 79922-1028  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

# TraceAnalysis, Inc.

Name:

Phone #:

Fax #:

Person:

Address:

City:

State:

Zip:

Project Location:

Project Name:

Sample Signature:

LAB #

FIELD CODE

(LAB USE ONLY)

# CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/602

GC/MS Semi. Vol. 8270C/602

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Turn Around Time if different from standard

Hold

REMARKS:

LAB USE ONLY

Intact

Headspace

Temp

Log-in Review

Carrier

Signature

Date

Time

Received by:

Date:

Time:

Received at Laboratory by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

Received by:

Date:

Time:

OCD FILES

35MM DRAWINGS

AP-2

FILE NUMBER

Annual Monitoring Report

DOCUMENT TYPE

2000

12

NO OF DWGS

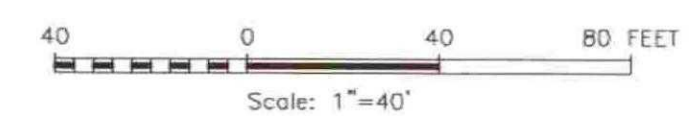
29

BOX



- LEGEND**
- DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - PRODUCT RECOVERY WELL

RECEIVED  
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ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION



BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
GROUND WATER ELEVATION/GRADIENT  
1st Quarter 2000  
MEASURED 3/21/00

CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL

|                      |                      |                      |
|----------------------|----------------------|----------------------|
| SURVEYED BY: LAWLESS | DRAWN BY: D.MCCARLEY | REV. DATE: 3/23/01   |
| DATE BEGIN: 5/11/98  | DATE: 8/13/98        | FILE NAME: FIGURE Q1 |
| DATE END: 8/1/98     | CHECKED BY:          | SHEET 1 OF 1         |
| PROJECT #: 98110738  | DISK #: BBC          | Scale: 1"=40'        |

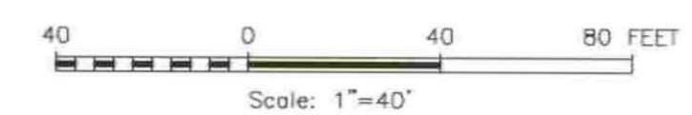
**D-047**  
**FIGURE Q1**  
1st Quarter 2000

JOHN WEST SURVEYING COMPANY  
7200 S. 1000 E. SUITE 100  
MIDLAND, TEXAS 79706



- LEGEND**
- DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CARVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
- ND = NOT DETECTED

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APR 02 2001  
ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION



BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
LNAPL THICKNESS  
(CONTOUR INTERVAL 0.5 FEET  
SAMPLE DATE: 3/21/2000  
MEASURED 1st QUARTER

|                                                                      |                      |                      |
|----------------------------------------------------------------------|----------------------|----------------------|
| CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL |                      |                      |
| SURVEYED BY: LAWLESS                                                 | DRAWN BY: D.MCCARLEY | REV. DATE: 3/23/2001 |
| DATE BEGIN: 5/11/98                                                  | DATE: 8/13/98        | FILE NAME: FIGUREQ2  |
| DATE END: 9/1/98                                                     | CHECKED BY:          | SHEET 7 OF 7         |
| PROJECT #: 98110738                                                  | DISK #: BBC          | Scale: 1"=40'        |

**FIGURE Q2**  
1st QUARTER 2000

JOHN WEST SURVEYING COMPANY



- LEGEND**
- /// DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - - - - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - NB = NOT DETECTED
  - NS = NOT SAMPLED DUE TO PRESENCE OF PRODUCT IN WELLS

First Quarter - 2000

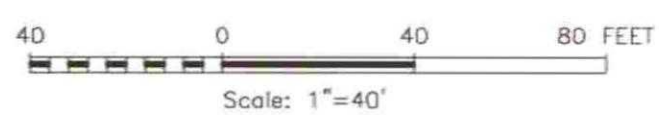
| Grimes Monitor Well # | UC/L            | Benzene | Toluene | Ethylbenzene | M, p-Xylene | o-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| GMW-2                 | Result          | <2.00   | 2.24    | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-4                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-6                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-7                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-8                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-10                | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-11                | Result          | <2.00   | 3.28    | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

| Tasker Monitor Well # | UC/L            | Benzene | Toluene | Ethylbenzene | M, p-Xylene | o-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| TMW-1                 | Result          | <2.00   | 4.09    | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-2                 | Result          | <2.00   | 4.42    | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-3                 | Result          | <2.00   | 35.32   | 9.95         | 19.97       | 8.76     |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-4                 | Result          | <2.00   | 6.38    | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-5                 | Result          | 2.14    | <2.00   | 1.11         | <2.00       | 2.43     |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

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APR 02 2001

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION



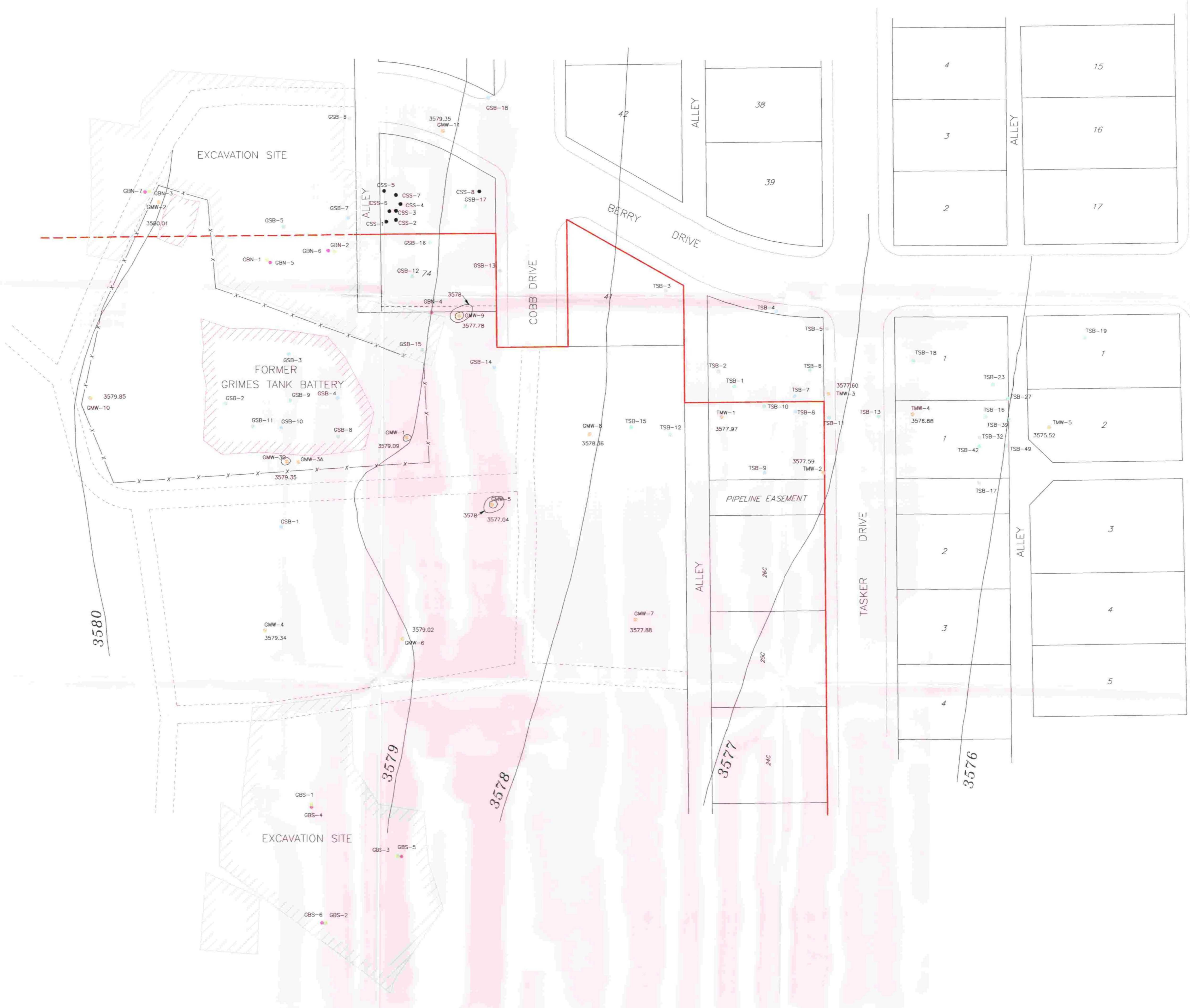
BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
TOTAL BTEX CONCENTRATIONS IN GROUNDWATER  
(CONTOUR INTERVAL AS SHOWN (MILLIGRAMS PER LITER)  
SAMPLE DATE: 3/21/2000  
1ST QUARTER

CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL

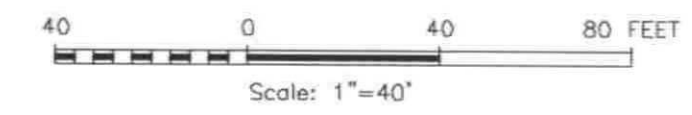
|                      |                    |                      |
|----------------------|--------------------|----------------------|
| SURVEYED BY: LAWLESS | DRAWN BY: DMCORLEY | REV. DATE: 3/23/2001 |
| DATE BEGIN: 5/11/98  | DATE: 8/13/98      | FILE NAME: FIGUREQ3  |
| DATE END: 9/1/98     | CHECKED BY:        | SHEET 1 OF 1         |
| PROJECT #: 98110738  | DISK #: BBC        | Scale: 1"=40'        |

0-947  
**FIGURE Q3**  
1st QUARTER 2000



- LEGEND**
- DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - PRODUCT RECOVERY WELL

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BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
GROUND WATER ELEVATION/GRADIENT  
2nd Quarter 2000  
MEASURED 6/12/00

CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL

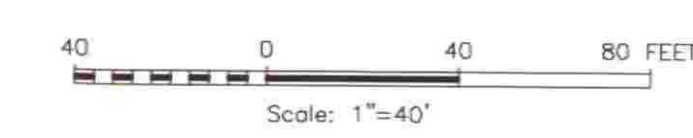
|                      |                      |                     |                  |
|----------------------|----------------------|---------------------|------------------|
| SURVEYED BY: LAWLESS | DRAWN BY: D.MCCARLEY | REV. DATE: 3/23/01  | D-847            |
| DATE BEGIN: 5/11/98  | DATE: 8/13/98        | FILE NAME: FIGURE04 | FIGURE Q4        |
| DATE END: 9/1/98     | CHECKED BY:          | SHEET 1 OF 1        | 2nd Quarter 2000 |
| PROJECT #: 98110738  | DISK #: BBC          | Scale: 1"=40'       |                  |

JOHN WEST SURVEYING COMPANY  
HOUSTON, TEXAS



- LEGEND**
- DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS- DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN- DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBS- DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN- DENOTES SURFACE SAMPLES AFTER EXCAVATION
- ND = NOT DETECTED

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OIL CONSERVATION DIVISION



BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
LNAPL THICKNESS  
(CONTOUR INTERVAL 0.5 FEET  
SAMPLE DATE: 6/12/2000  
MEASURED 2nd QUARTER

|                                                                      |                      |                      |                               |
|----------------------------------------------------------------------|----------------------|----------------------|-------------------------------|
| CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL |                      |                      |                               |
| SURVEYED BY: LAWLESS                                                 | DRAWN BY: D.McCARLEY | REV. DATE: 3/23/2001 | D-847                         |
| DATE BEGIN: 5/11/98                                                  | DATE: 6/13/98        | FILE NAME: FIGURE05  | FIGURE Q5<br>2nd QUARTER 2000 |
| DATE END: 9/1/98                                                     | CHECKED BY:          | SHEET 1 OF 1         |                               |
| PROJECT #: 98110738                                                  | DISK #: BBC          | Scale: 1"=40'        |                               |

JOHN WEST SURVEYING COMPANY



- LEGEND**
- ////// DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - - - DENOTES DIRT LEASE ROAD
  - - - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
- NB = NOT DETECTED  
NS = NOT SAMPLED DUE TO PRESENCE OF PRODUCT IN WELLS

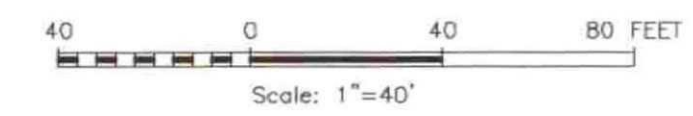
**Second Quarter - 2000**

| Grimes Monitor Well # | UC/L            | Benzene | Toluene | Ethylbenzene | M, p-Xylene | o-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| GMW-2                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-4                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-6                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-7                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-8                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-10                | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-11                | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

| Tasker Monitor Well # | UC/L            | Benzene | Toluene | Ethylbenzene | M, p-Xylene | o-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| TMW-1                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-2                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-3                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-4                 | Result          | <2.00   | <2.00   | 3.92         | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-5                 | Result          | <2.00   | <2.00   | 86.6         | 2.11        | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

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BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

**GRIMES BATTERY & TASKER ROAD**  
TOTAL BTEX CONCENTRATIONS IN GROUNDWATER  
(CONTOUR INTERVAL AS SHOWN (MILLIGRAMS PER LITER)  
SAMPLE DATE: 6/12/2000  
2nd QUARTER

|                                                                      |                      |                      |       |
|----------------------------------------------------------------------|----------------------|----------------------|-------|
| CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL |                      |                      |       |
| SURVEYED BY: LAWLESS                                                 | DRAWN BY: D.McCARLEY | REV. DATE: 3/23/2001 | D-847 |
| DATE BEGIN: 5/11/98                                                  | DATE: 8/13/98        | FILE NAME: FIGURE Q6 |       |
| DATE END: 9/1/98                                                     | CHECKED BY:          | SHEET 7 OF 1         |       |
| PROJECT #: 98110738                                                  | DISK #: BBC          | Scale: 1"=40'        |       |

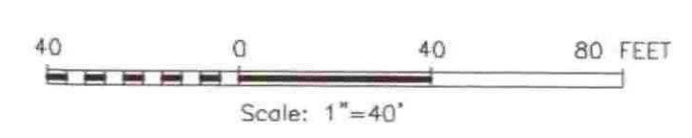
**FIGURE Q6**  
2nd QUARTER 2000

JOHN WEST SURVEYING COMPANY



- LEGEND**
- ////// DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - - - DENOTES DIRT LEASE ROAD
  - - - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - PRODUCT RECOVERY WELL

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BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
GROUND WATER ELEVATION/GRADIENT  
3rd Quarter 2000  
MEASURED 9/20/00

CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL

|                      |                      |                     |
|----------------------|----------------------|---------------------|
| SURVEYED BY: LAWLESS | DRAWN BY: D.McCARLEY | REV. DATE: 3/23/01  |
| DATE BEGIN: 5/11/98  | DATE: 8/13/98        | FILE NAME: FIGUREQ7 |
| DATE END: 9/1/98     | CHECKED BY:          | SHEET 1 OF 1        |
| PROJECT #: 98110738  | DSK #: BBC           | Scale: 1"=40'       |

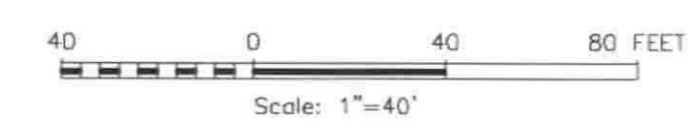
**FIGURE Q7**  
3rd Quarter 2000

JOHN WEST SURVEYING COMPANY  
— 2000 NEW YORK —



- LEGEND**
- ////// DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
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  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
- ND = NOT DETECTED

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OIL CONSERVATION DIVISION



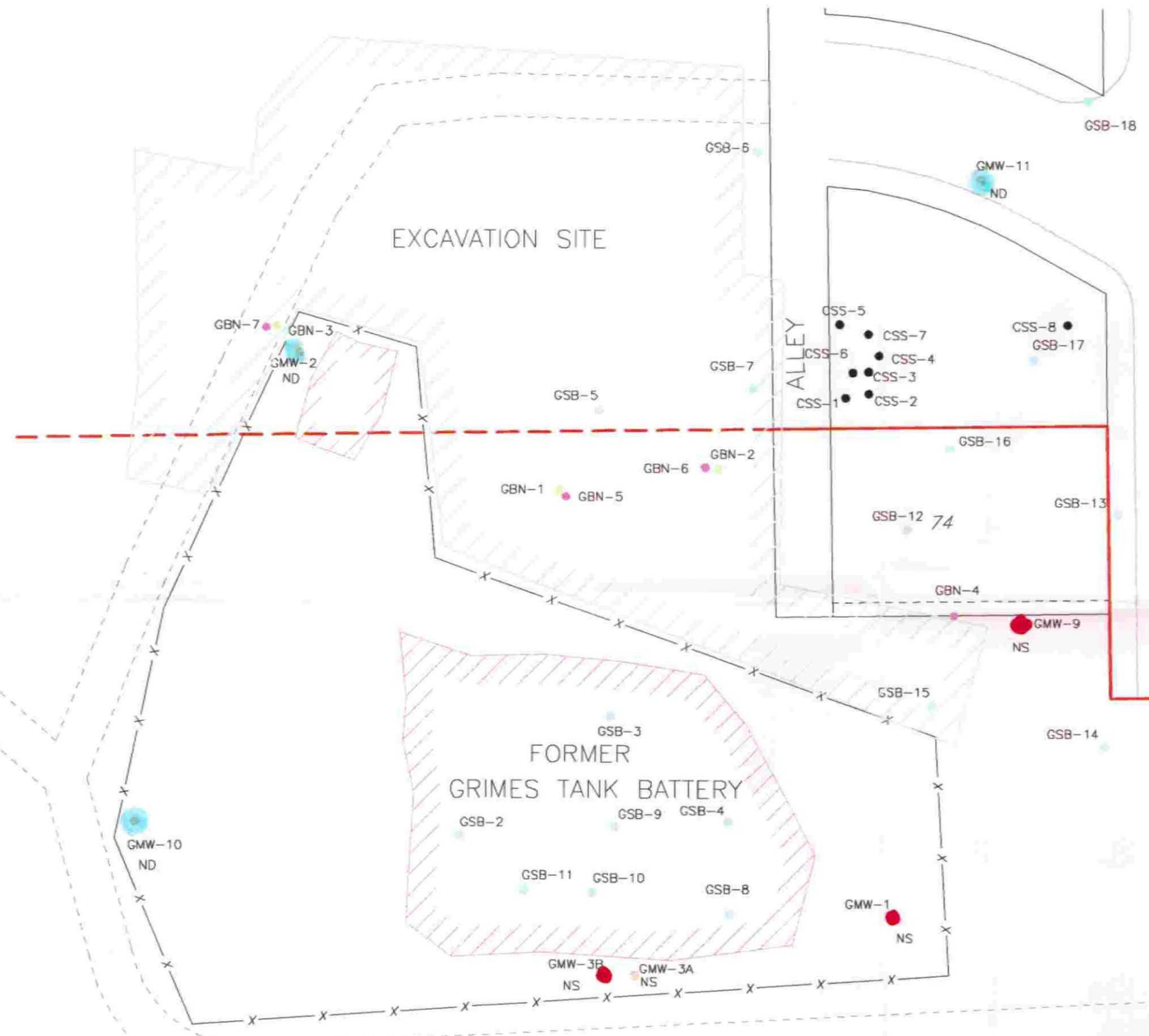
BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
LNAPL THICKNESS  
(CONTOUR INTERVAL 0.5 FEET  
SAMPLE DATE: 9/20/2000  
MEASURED 3rd QUARTER

CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL

|                      |                      |                      |                  |
|----------------------|----------------------|----------------------|------------------|
| SURVEYED BY: LAWLESS | DRAWN BY: G.McCARLEY | REV. DATE: 3/23/2001 | D-047            |
| DATE BEGN: 5/11/98   | DATE: 8/13/98        | FILE NAME: FIGUREQ8  | FIGURE Q8        |
| DATE END: 9/1/98     | CHECKED BY:          | SHEET 1 OF 1         | 3rd QUARTER 2000 |
| PROJECT #: 98110738  | DISK #: BBC          | Scale: 1"=40'        |                  |

JOHN WEST SURVEYING COMPANY



- LEGEND**
- DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
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  - TMW - DENOTES TASKER MONITOR WELL
  - GBW - DENOTES GRIMES MONITOR WELL
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  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
- NB = NOT DETECTED  
NS = NOT SAMPLED DUE TO PRESENCE OF PRODUCT IN WELLS

Third Quarter - 2000

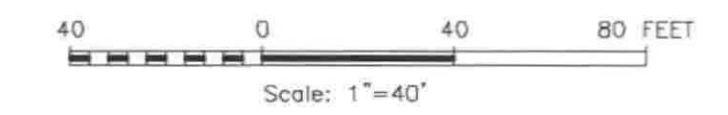
| Grimes Monitor Well # | UG/L            | Benzene | Toluene | Ethylbenzene | M. p-Xylene | O-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| GMW-2                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-4                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-6                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-7                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-8                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-10                | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-11                | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

| Tasker Monitor Well # | UG/L            | Benzene | Toluene | Ethylbenzene | M. p-Xylene | O-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| TMW-1                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-2                 | Result          | <2.00   | <2.00   | <2.00        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-3                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-4                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-5                 | Result          | <2.00   | <2.00   | 22.78        | <2.00       | <2.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

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BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
TOTAL BTEX CONCENTRATIONS IN GROUNDWATER

(CONTOUR INTERVAL AS SHOWN (MILLIGRAMS PER LITER))

SAMPLE DATE: 9/20/2000

3rd QUARTER

CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL

|                      |                      |                      |                  |
|----------------------|----------------------|----------------------|------------------|
| SURVEYED BY: LAWLESS | DRAWN BY: D.MCCARLEY | REV. DATE: 3/23/2001 | 0-847            |
| DATE BEGN: 5/11/98   | DATE: 8/12/98        | FILE NAME: FIGUREQ9  |                  |
| DATE END: 9/1/98     | CHECKED BY:          | SHEET 1 OF 1         | FIGURE Q9        |
| PROJECT #: 98110738  | DISK #: BBC          | Scale: 1"=40'        | 3rd QUARTER 2000 |

JOHN WEST SURVEYING COMPANY

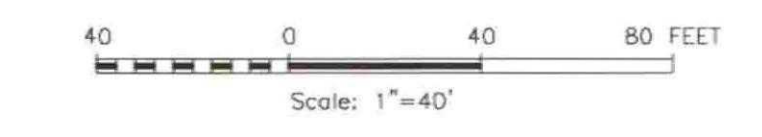


- LEGEND**
- /// DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CURVE-OUT
  - DENOTES EXISTING RESIDENCE
  - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION

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ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION



BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
GROUND WATER ELEVATION/GRADIENT  
4th Quarter 2000  
MEASURED 12/20/00

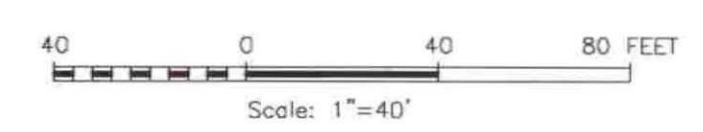
|                                                                      |                      |                       |                  |
|----------------------------------------------------------------------|----------------------|-----------------------|------------------|
| CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL |                      |                       |                  |
| SURVEYED BY: LAWLESS                                                 | DRAWN BY: D.MCCARLEY | REV. DATE: 3/23/01    | D-947            |
| DATE BEGN: 5/11/98                                                   | DATE: 8/13/98        | FILE NAME: FIGURE Q10 | FIGURE Q10       |
| DATE END: 9/1/98                                                     | CHECKED BY:          | SHEET 1 OF 1          | 4th Quarter 2000 |
| PROJECT #: 98110738                                                  | DISK #: BBC          | Scale: 1"=40'         |                  |

JOHN WEST SURVEYING COMPANY



- LEGEND**
- /// DENOTES EXCAVATED AREA
  - DENOTES PROPOSED PARK CARVE-OUT
  - DENOTES EXISTING RESIDENCE
  - - - DENOTES DIRT LEASE ROAD
  - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
  - GSB - DENOTES GRIMES SOIL BORING
  - TMW - DENOTES TASKER MONITOR WELL
  - GMW - DENOTES GRIMES MONITOR WELL
  - GBS - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES PRIOR TO EXCAVATION
  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
- ND = NOT DETECTED

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BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

GRIMES BATTERY & TASKER ROAD  
LNAPL THICKNESS  
(CONTOUR INTERVAL 0.5 FEET  
SAMPLE DATE: 12/20/2000  
MEASURED 4TH QUARTER

|                                                                      |                      |                       |                  |
|----------------------------------------------------------------------|----------------------|-----------------------|------------------|
| CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL |                      |                       |                  |
| SURVEYED BY: LAWLESS                                                 | DRAWN BY: D.MCCARLEY | REV. DATE: 3/23/2001  | D-047            |
| DATE BEGIN: 9/11/98                                                  | DATE: 8/13/98        | FILE NAME: FIGURE Q11 |                  |
| DATE END: 9/1/98                                                     | CHECKED BY:          | SHEET 1 OF 1          | FIGURE Q11       |
| PROJECT #: 98110738                                                  | DISK #: BBC          | Scale: 1"=40'         | 4th QUARTER 2000 |

JOHN WEST SURVEYING COMPANY  
3030 W. 14TH AVE.  
DENVER, CO 80202



- LEGEND**
- DENOTES EXCAVATED AREA
  - - - DENOTES PROPOSED PARK CURVE-OUT
  - - - DENOTES EXISTING RESIDENCE
  - - - DENOTES DIRT LEASE ROAD
  - - - DENOTES NEW EXCAVATION SITE
  - TSB - DENOTES TASKER SOIL BORING
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  - GBS - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - GBN - DENOTES SURFACE SAMPLES AFTER EXCAVATION
  - NB = NOT DETECTED
  - NS = NOT SAMPLED DUE TO PRESENCE OF PRODUCT IN WELLS

**Fourth Quarter - 2000**

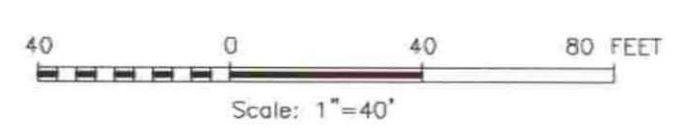
| Grimes Monitor Well # | UC/L            | Benzene | Toluene | Ethylbenzene | M, p-Xylene | o-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| GMW-2                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-4                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-6                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-7                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-8                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-10                | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| GMW-11                | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

| Tasker Monitor Well # | UC/L            | Benzene | Toluene | Ethylbenzene | M, p-Xylene | o-Xylene |
|-----------------------|-----------------|---------|---------|--------------|-------------|----------|
| TMW-1                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-2                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-3                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-4                 | Result          | <1.00   | <1.00   | <1.00        | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |
| TMW-5                 | Result          | 1.48    | <1.00   | 75.2         | <1.00       | <1.00    |
|                       | Detection Limit | 2       | 2       | 2            | 2           | 2        |

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ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION



BBC INTERNATIONAL, INC. / ARCADIS GERAGHTY & MILLER

**GRIMES BATTERY & TASKER ROAD**  
TOTAL BTX CONCENTRATIONS IN GROUNDWATER  
(CONTOUR INTERVAL AS SHOWN (MILLIGRAMS PER LITER))  
SAMPLE DATE: 12/20/2000  
4th QUARTER

|                                                                      |                      |                       |                  |
|----------------------------------------------------------------------|----------------------|-----------------------|------------------|
| CONTOURS DEPICTED ON THIS DRAWING BASED ON INTERPRETATION BY S. HALL |                      |                       |                  |
| SURVEYED BY: LAWLESS                                                 | DRAWN BY: D.M.CARLEY | REV. DATE: 3/23/2001  | D-047            |
| DATE BEG: 5/11/98                                                    | DATE: 8/13/98        | FILE NAME: FIGURE Q12 |                  |
| DATE END: 9/1/98                                                     | CHECKED BY:          | SHEET 1 OF 1          | FIGURE Q12       |
| PROJECT #: 98110738                                                  | DISK #: BBC          | Scale: 1"=40'         | 4th QUARTER 2000 |

JOHN WEST SURVEYING COMPANY