

1R - 397

# REPORTS

DATE:

2/19/2004

1220 S. Santa Fe, NE 87203  
Conservation Division  
27 2004  
SANTA FE, NM 87203

**SHELL OIL PRODUCTS US**  
**2003 ANNUAL GROUNDWATER**  
**MONITORING REPORT**  
**JOHN HENDRIX SITE**  
**MONUMENT, LEA COUNTY,**  
**NEW MEXICO**

**ENERCON PROJECT NO. EQ-110**

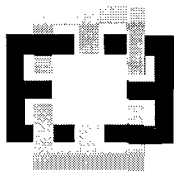
**Prepared for:**

**MR. SCOTT E. BURKEY**  
**SHELL OIL PRODUCTS US**  
**7750 NORTH MACARTHUR, SUITE 120 PMB 319**  
**IRVING, TEXAS 75063**

February 19, 2004

**Prepared by:**

**ENERCON SERVICES, INC.**  
**ENVIRONMENTAL & INDUSTRIAL SERVICES GROUP**  
306 West Wall, Suite 1312  
Midland, Texas 79701  
(432) 570-8726  
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February 19, 2004

Mr. Scott E. Burkey  
Environmental Specialist  
Shell Oil Products US  
7750 North MacArthur, Suite 120 PMB 319  
Irving, Texas 75063

**RE: 2003 ANNUAL GROUNDWATER MONITORING REPORT  
JANUARY THROUGH DECEMBER 2003  
JOHN HENDRIX RELEASE SITE  
LEA COUNTY, NEW MEXICO**

Mr. Burkey:

This report details the groundwater monitoring activities at the John Hendrix release site from January 1, 2003 through December 31, 2003. The site is located approximately 4 miles southwest of Monument, on Brickline Road, in Lea County, New Mexico. The purpose of the groundwater monitoring activities was to gauge monitor wells and collect groundwater samples in an effort to follow the extent and impact of a groundwater plume apparently originating from a subsurface crude oil pipeline release. The monitor wells were installed in May 2002.

**GROUNDWATER ASSESSMENT**

Enercon has completed monitoring at the referenced facility for the period from January 1, 2003 through December 31, 2003. All monitor wells were gauged and samples were collected on January 9, April 2, July 2, and October 6, 2003.

Quarterly hand bailing and oil absorbent booms have been utilized as the recovery techniques for all monitor wells onsite (MW-1 to MW-5) when they exhibited phase-separated hydrocarbons (PSH). During the course of the year, PSH was found only in monitor well MW-2. Average thickness ranged from 0.06 feet on January 9 to 0.74 feet on October 6.

Depth to groundwater ranged across the site from 32.40 feet below the top of the casing (TOC) in monitor well MW-2 to 34.02 feet in monitor well MW-5. Groundwater table elevation fluctuated from a minimum of 0.16 feet in MW-4 to a maximum of 0.19 feet in MW-2, with an average fluctuation of 0.17 feet across the site during the year.

Groundwater at the site was determined to flow to the south/southeast. Figures 2-5 illustrate the groundwater gradient based on the quarterly gauging events for the year. Relative groundwater elevations are recorded in Table 1, Appendix B.

## **GROUNDWATER SAMPLING**

On January 9, 2003, Enercon conducted the first quarterly groundwater monitoring event. Groundwater samples were collected from monitor well MW-1, MW-3, MW-4 and MW-5 and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Monitor well MW-2 exhibited PSH and was therefore not sampled for BTEX or PAH. All groundwater samples analyzed resulted in BTEX and PAH concentrations below laboratory detection limits.

On April 2, 2003 Enercon conducted the second quarterly groundwater monitoring event. Groundwater samples were collected from monitor wells MW-1, MW-3, MW-4, and MW-5 and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Monitor well MW-2 exhibited PSH and was therefore not sampled for BTEX or PAH. All groundwater samples analyzed resulted in BTEX and PAH concentrations below laboratory detection limits.

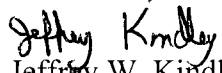
On July 2, 2003, the third quarterly groundwater sampling event was performed. Groundwater samples were collected from monitor wells MW-1, MW-3, MW-4, and MW-5, and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Monitor well MW-2 exhibited PSH and was therefore not sampled for BTEX or PAH. Laboratory analytical results indicated concentrations of 0.0060 mg/l benzene, 0.0066 mg/l toluene, 0.0013 ethylbenzene, and 0.0019 xylenes from monitor well MW-3 and 0.001 mg/l toluene and 0.0014 mg/l xylenes from monitor well MW-4. BTEX concentrations from all other groundwater samples were below laboratory detectable limits. Laboratory analytical results indicated PAH concentrations below laboratory detectable limits for all monitor wells sampled.

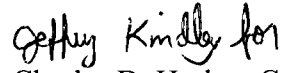
On October 6, 2003, the fourth quarterly groundwater sampling event was performed. Groundwater samples were collected from monitor wells MW-1, MW-3, MW-4, and MW-5 and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Monitor well MW-2 exhibited PSH and was therefore not sampled for BTEX or PAH. Laboratory analytical results indicated BTEX and PAH concentrations below laboratory detectable limits for all monitor wells sampled. Figures 6 through 9 in Appendix A illustrate the dissolved hydrocarbon concentrations across the site based on the four quarterly sampling events for the year. In addition, laboratory analytical results are summarized in Table 2, Attachment B of this report. Laboratory data sheets are included as Attachment C.

Mr. Scott Burkey  
02/19/04  
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Enercon Services, Inc. appreciates the opportunity to provide you with our professional consulting services on this important project. If you have any questions or if we can be of further assistance, please do not hesitate to call.

Respectfully,  
Enercon Services, Inc.

  
Jeffrey W. Kindley, P.G.  
Project Manager

  
Charles D. Harlan, C.P.G.  
Manager, Environmental Services

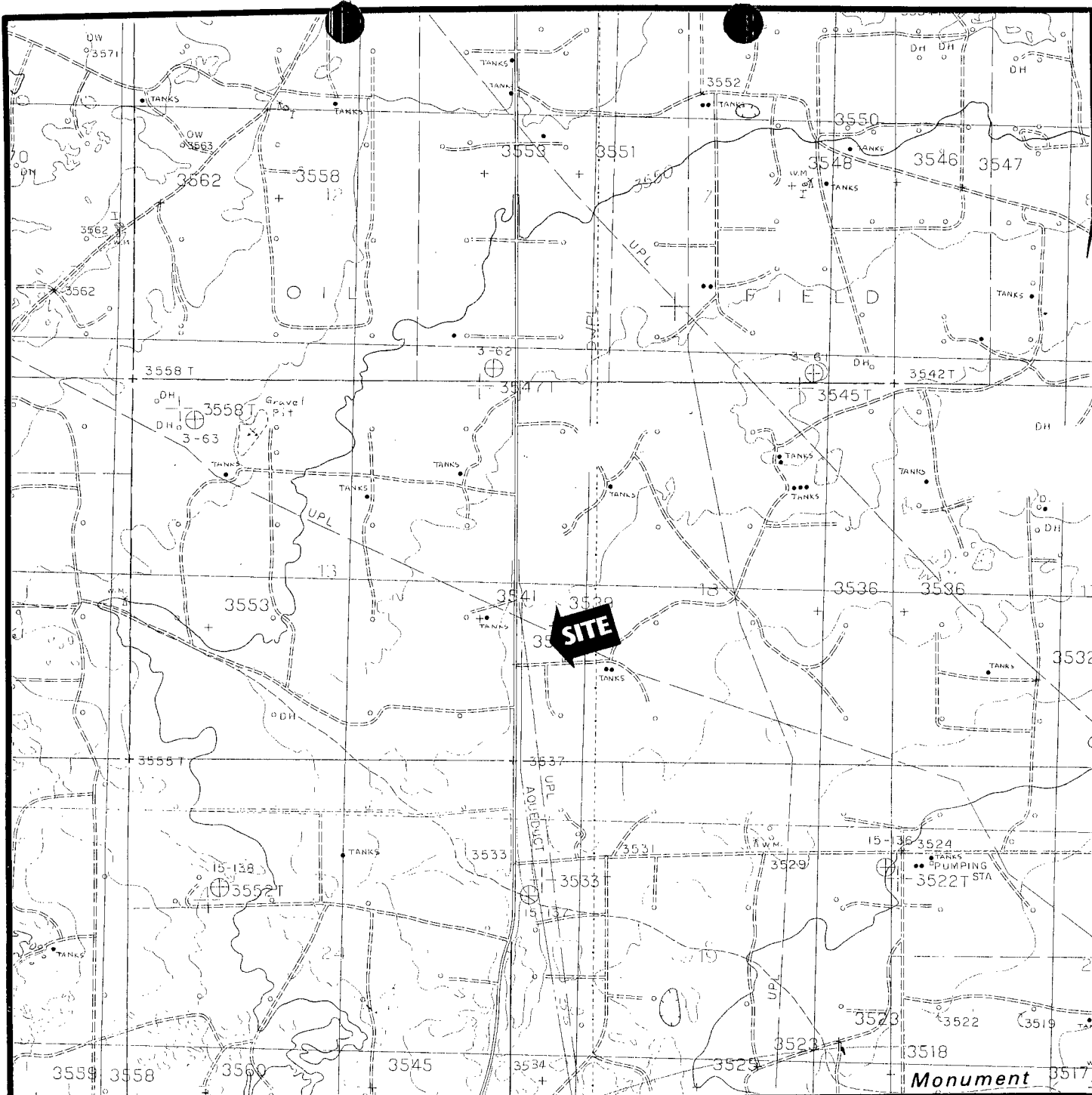
## **ATTACHMENT A**

### **FIGURES**

Site Map (Figure 1)

Groundwater Gradient Maps (Figures 2, 3, 4, and 5)

Hydrocarbon Concentration Maps (Figures 6, 7, 8, and 9)



**U.S.G.S. TOPOGRAPHIC MAP  
SW MONUMENT AREA, LEA COUNTY  
NEW MEXICO QUADRANGLE  
DATED 1985**

**INCIDENT NUMBER 300110**

**SHELL OIL PRODUCTS US  
JOHN HENDRIX  
MONUMENT, LEA COUNTY  
NEW MEXICO**

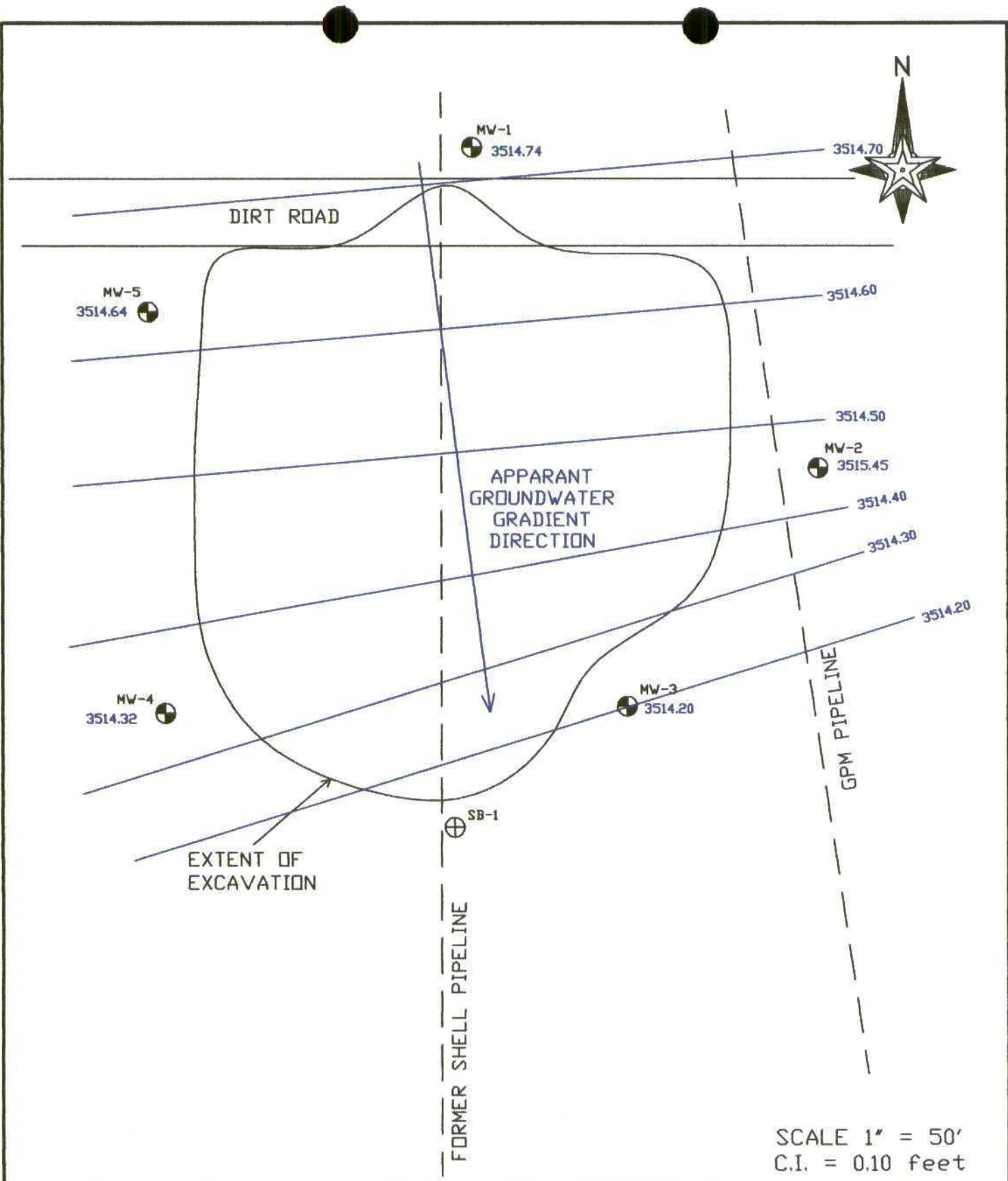


**Figure 1**

**Scale: 1" = 2,000'**



**ENERCON SERVICES, INC.  
306 WEST WALL  
SUITE 1312  
MIDLAND, TX 79707  
(432) 570-8726**



# GROUNDWATER GRADIENT MAP

JANUARY 9, 2003

PREPARED FOR:

SHELL OIL PRODUCTS U.S.  
JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO

PREPARED BY:

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INCIDENT #

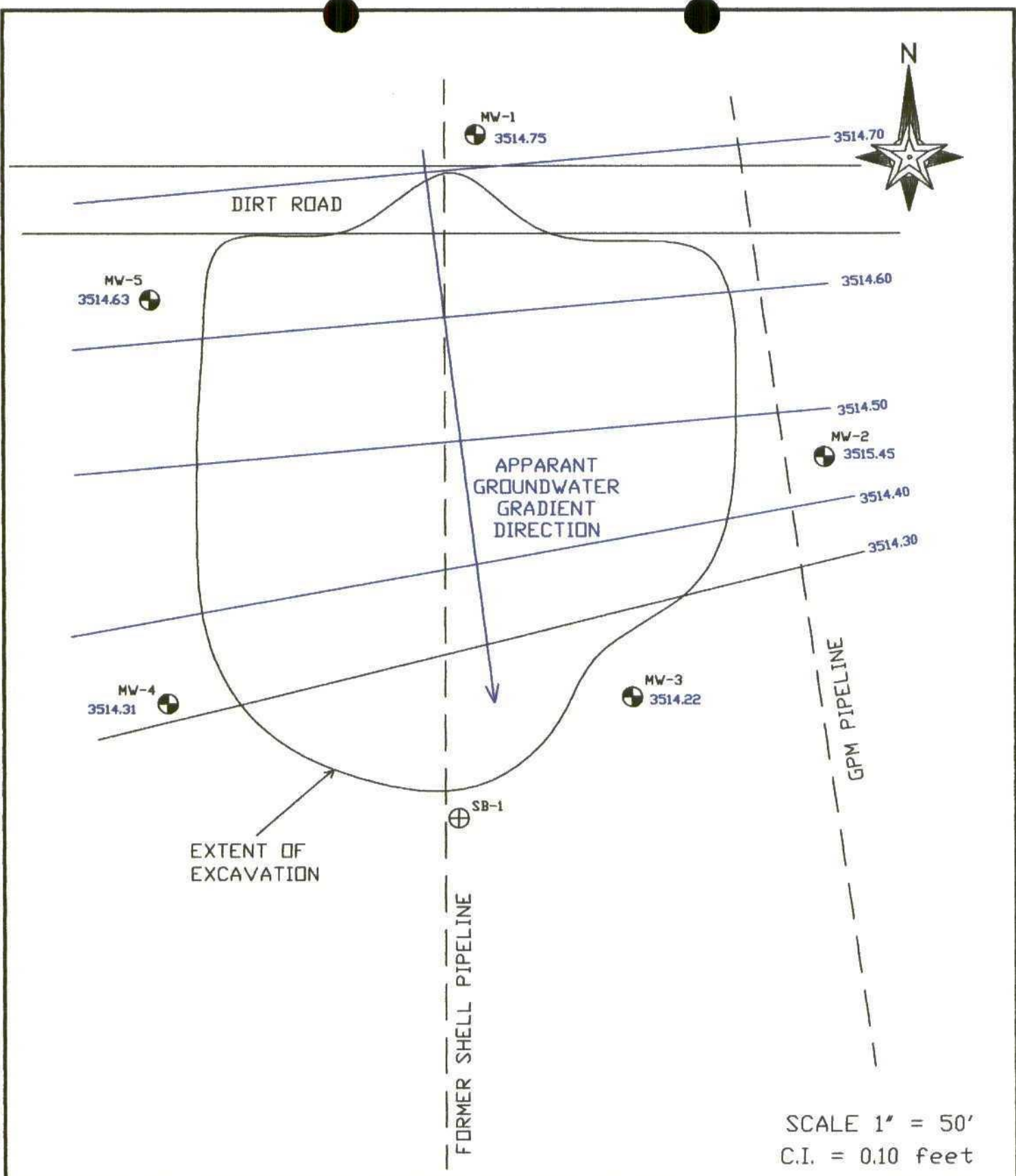
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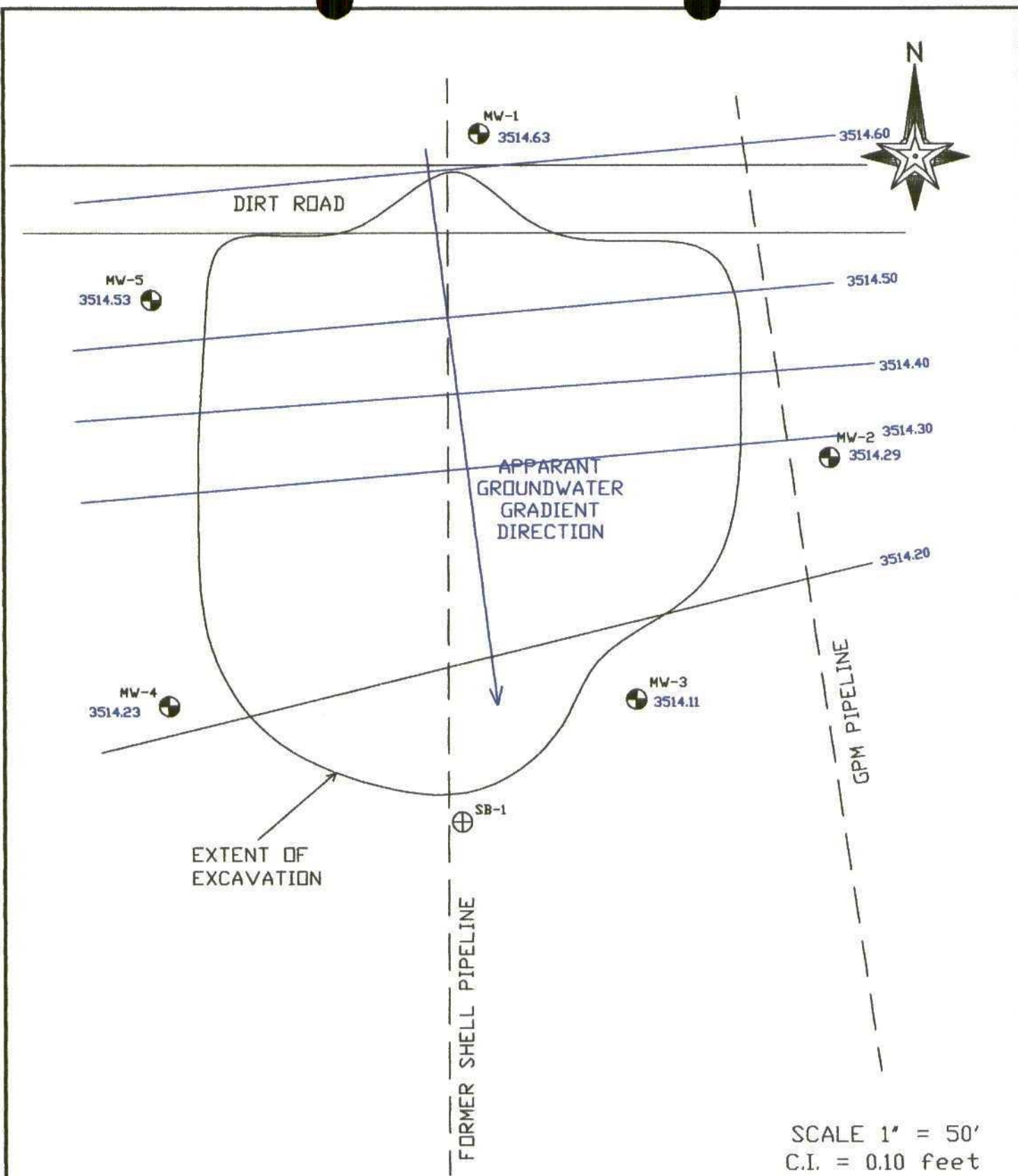
EQ-110

FIGURE

2



| GROUNDWATER GRADIENT MAP                                                                            |                                                                                                            | APRIL 9, 2003             |             |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|-------------|
| PREPARED FOR:<br>SHELL OIL PRODUCTS U.S.<br>JOHN HENDRIX SITE<br>MONUMENT<br>LEA COUNTY, NEW MEXICO | PREPARED BY:<br>ENERCON SERVICES, INC.<br>306 WEST WALL, SUITE 1312<br>MIDLAND, TX 79701<br>(915) 570-8726 | INCIDENT #<br>300110      | FIGURE<br>3 |
|                                                                                                     |                                                                                                            | PROJECT NUMBER:<br>EQ-110 |             |



# GROUNDWATER GRADIENT MAP

JULY 2, 2003

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JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO

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INCIDENT #

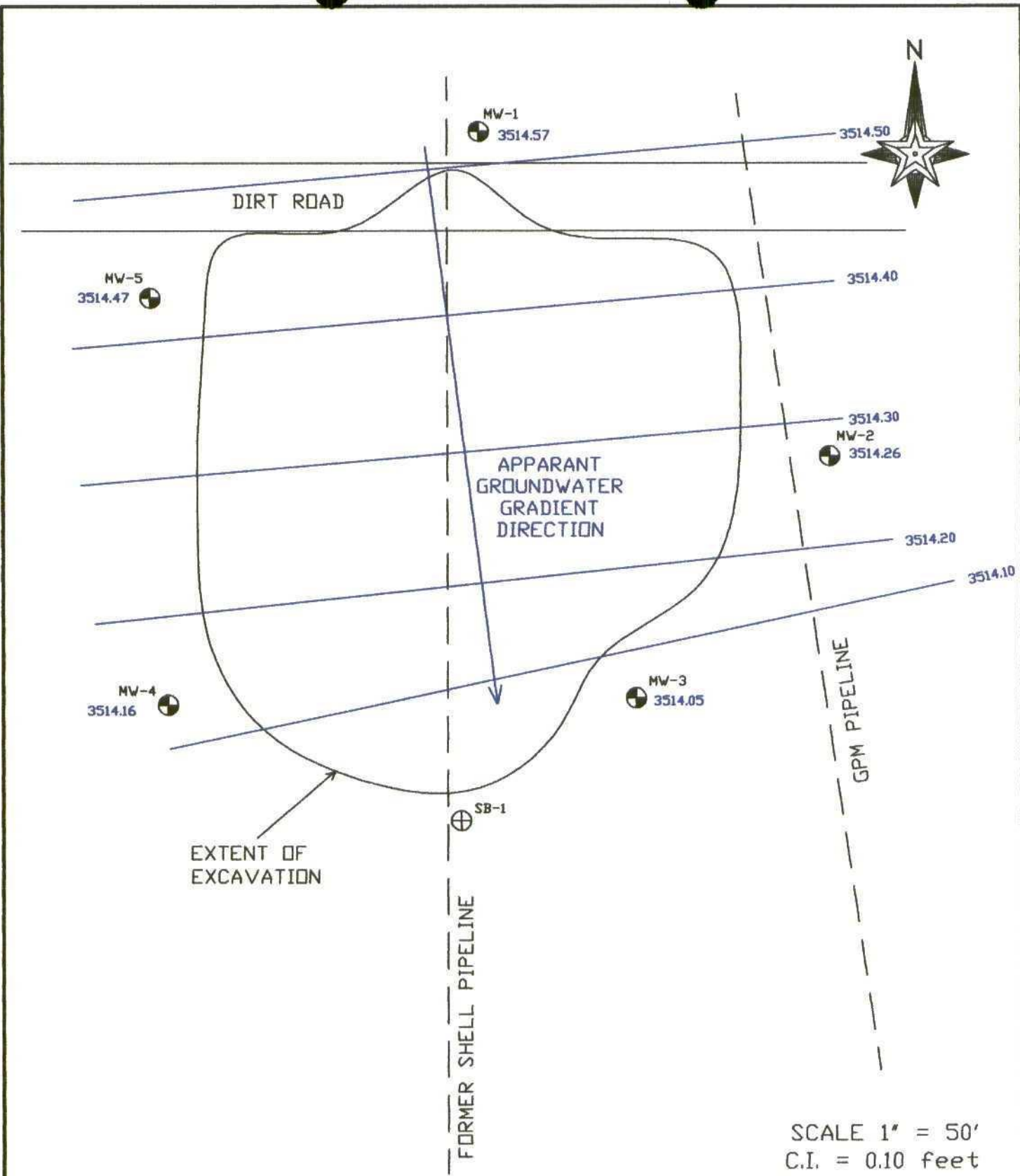
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FIGURE

4



# GROUNDWATER GRADIENT MAP

OCTOBER 6, 2003

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 MONUMENT  
 LEA COUNTY, NEW MEXICO

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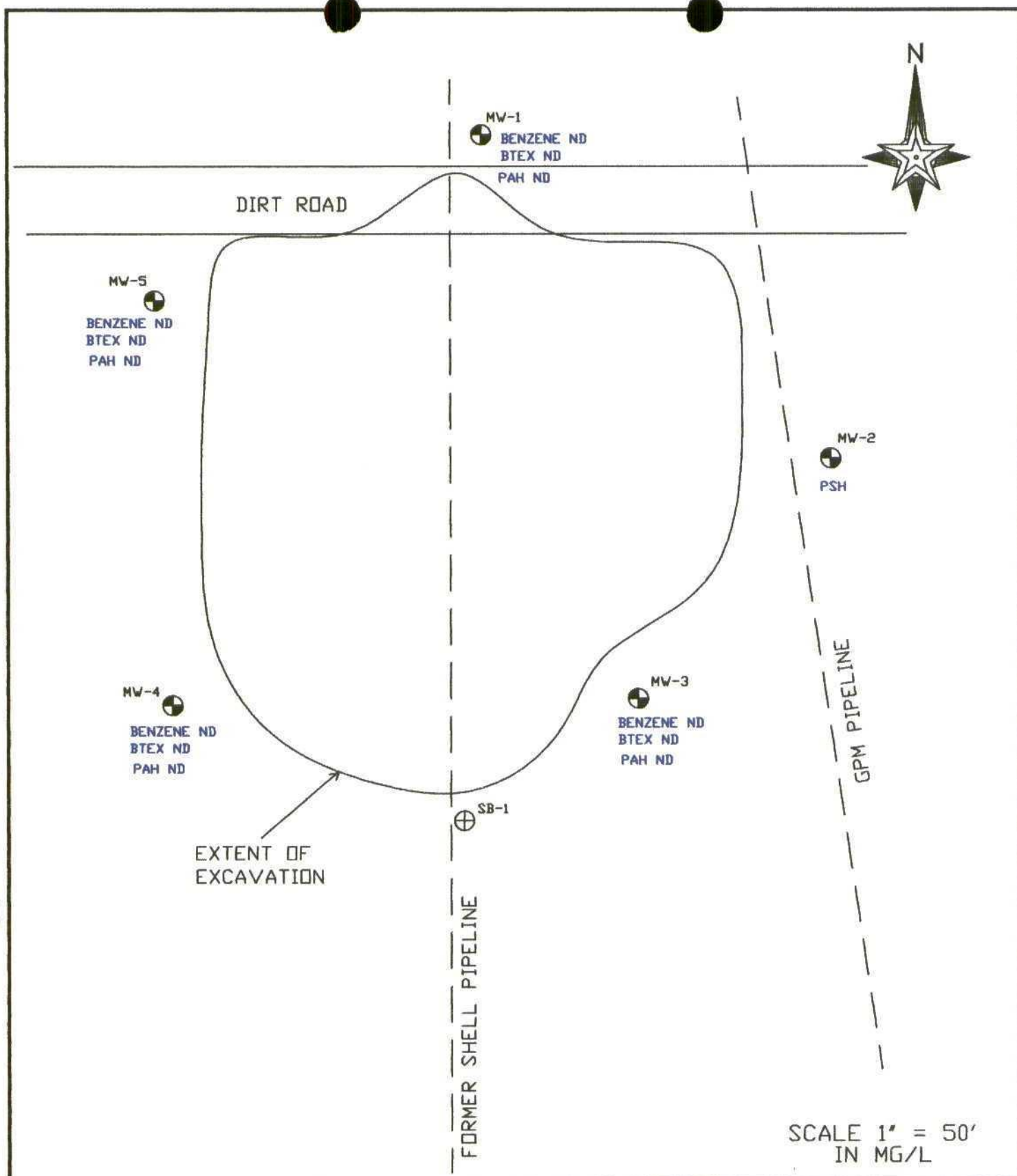
300110

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EQ-110

FIGURE

5



# HYDROCARBON CONCENTRATION MAP

JANUARY 9, 2003

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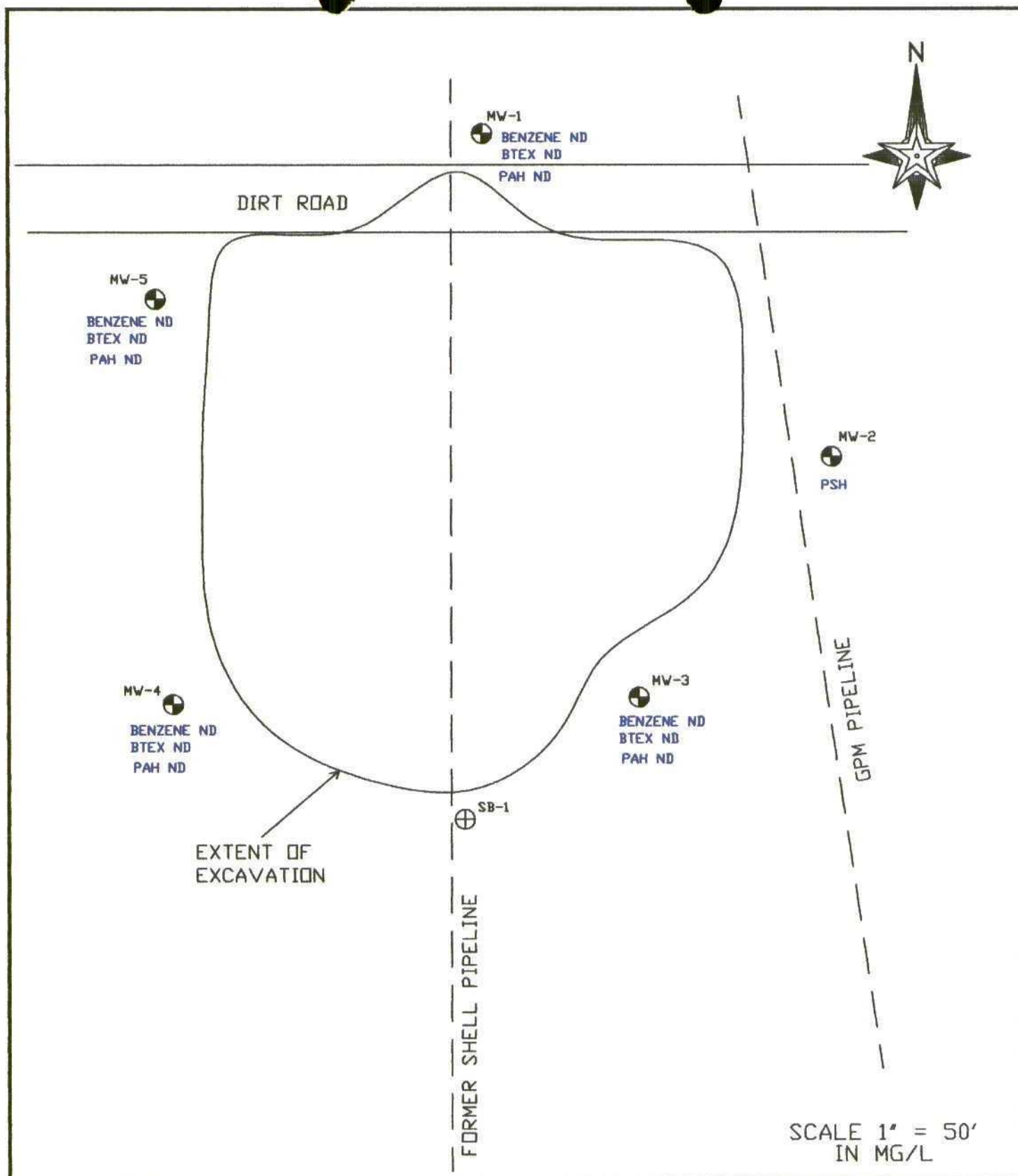
300110

PROJECT NUMBER:

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FIGURE

6



# HYDROCARBON CONCENTRATION MAP

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JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO

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APRIL 2, 2003

INCIDENT #

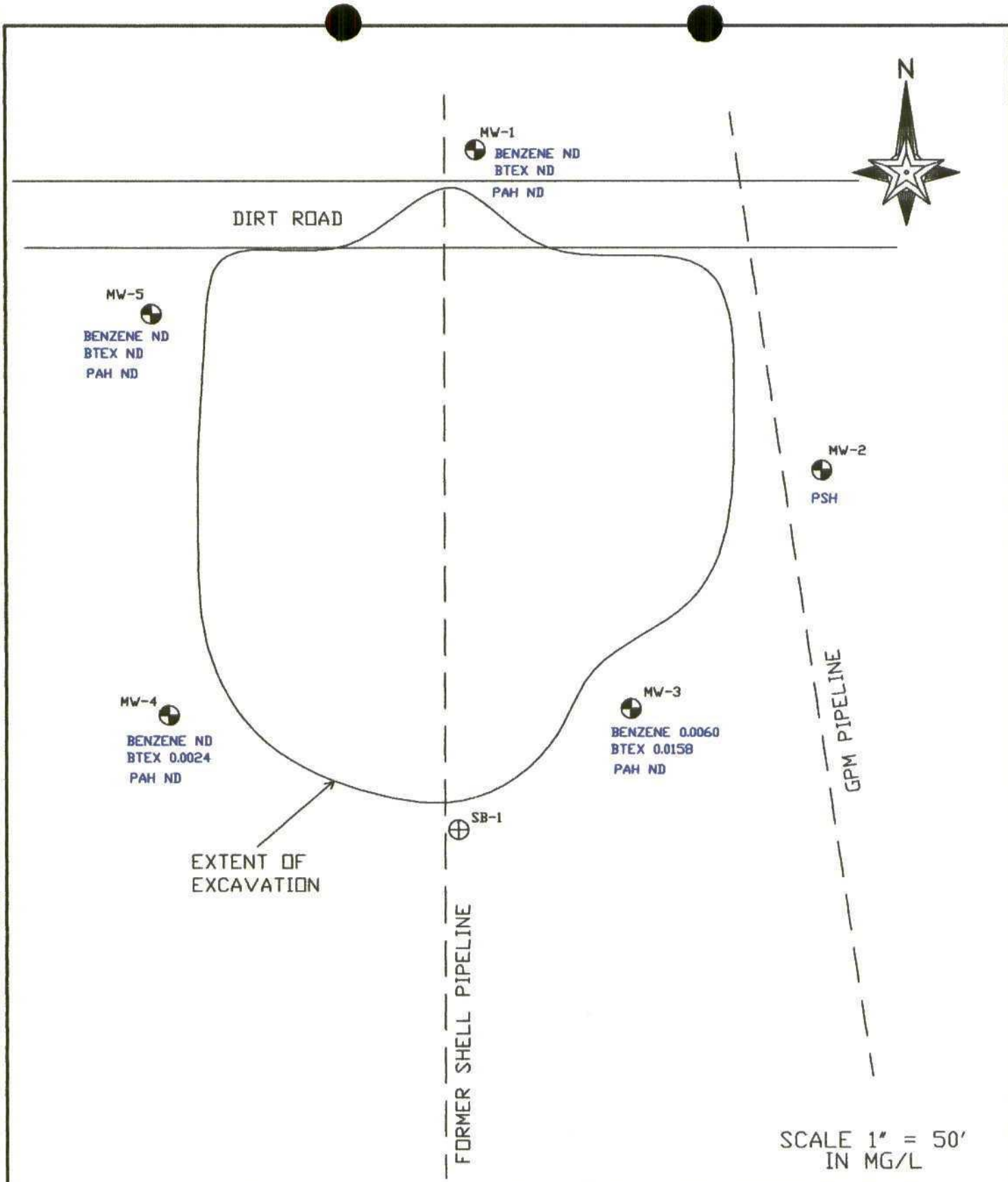
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EQ-110

FIGURE

7



# HYDROCARBON CONCENTRATION MAP

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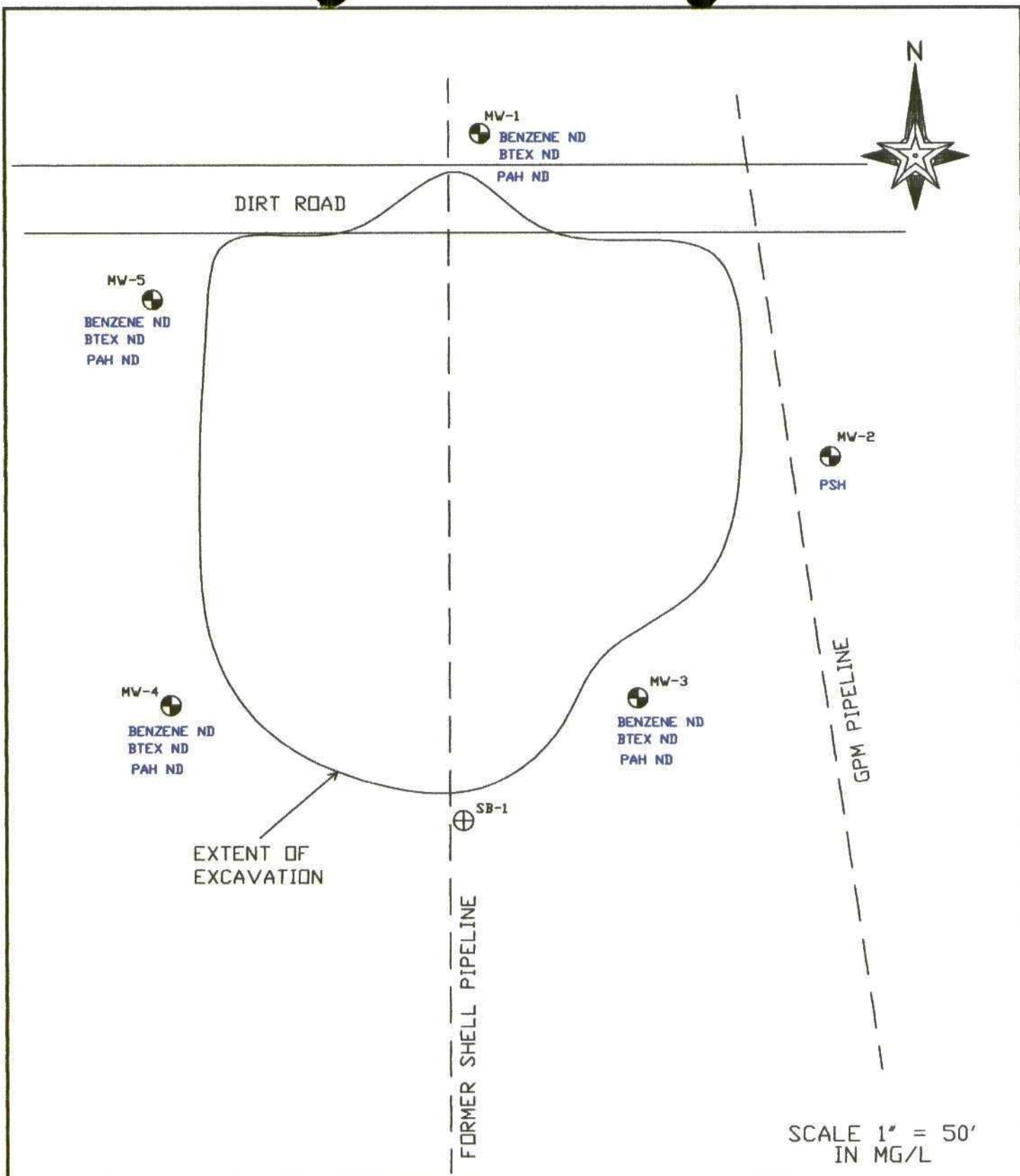
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EQ-110

FIGURE

8



# HYDROCARBON CONCENTRATION MAP

OCTOBER 6, 2003

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JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO

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FIGURE

9

## **ATTACHMENT B**

### **TABLES**

Relative Groundwater Elevations, PSH Thickness, and Manual PSH Recovery-(Table1)  
Dissolved Hydrocarbon Concentrations (Table 2)

**TABLE 1**  
**RELATIVE GROUNDWATER ELEVATIONS**  
**SHELL OIL PRODUCTS US**  
**JOHN HENDRIX SITE**  
**MONUMENT, LEA COUNTY, NEW MEXICO**

| Monitor Well | Date Gauged | Relative Top of Casing Elevation (feet)* | PSH Below Top of Casing (feet)* | Water Below Top of Casing (feet) | Corrected Relative Groundwater Elevation (feet)** | Phase-Separated Hydrocarbon Thickness (feet) | PSH Recovery (gallons) | PSH Cumulative Recovery (gallons) | Type of Recovery |
|--------------|-------------|------------------------------------------|---------------------------------|----------------------------------|---------------------------------------------------|----------------------------------------------|------------------------|-----------------------------------|------------------|
| MW-1         | 05/16/02    | 3547.99                                  |                                 | 33.19                            | 3514.80                                           | 0.00                                         |                        |                                   |                  |
|              | 08/23/02    |                                          |                                 | 33.21                            | 3514.78                                           | 0.00                                         |                        |                                   |                  |
|              | 10/09/02    |                                          |                                 | 33.25                            | 3514.74                                           | 0.00                                         |                        |                                   |                  |
|              | 01/09/03    |                                          |                                 | 33.25                            | 3514.74                                           | 0.00                                         |                        |                                   |                  |
|              | 04/02/03    |                                          |                                 | 33.24                            | 3514.75                                           | 0.00                                         |                        |                                   |                  |
|              | 07/02/03    |                                          |                                 | 33.36                            | 3514.63                                           | 0.00                                         |                        |                                   |                  |
|              | 10/06/03    |                                          |                                 | 33.42                            | 3514.57                                           | 0.00                                         |                        |                                   |                  |
| MW-2         | 05/16/02    | 3546.85                                  |                                 | 32.32                            | 3514.53                                           | 0.00                                         |                        |                                   |                  |
|              | 08/23/02    |                                          |                                 | 32.36                            | 3514.49                                           | 0.00                                         |                        |                                   |                  |
|              | 10/09/02    |                                          |                                 | 32.41                            | 3514.44                                           | 0.00                                         |                        |                                   |                  |
|              | 01/09/03    |                                          |                                 | 32.45                            | 3514.45                                           | 0.06                                         |                        |                                   |                  |
|              | 04/02/03    |                                          | 32.39                           | 32.49                            | 3514.45                                           | 0.10                                         | 0.00                   | 0.00                              | Absorbent Boom   |
|              | 07/02/03    |                                          | 32.55                           | 32.63                            | 3514.29                                           | 0.08                                         | 0.50                   | 0.50                              | Absorbent Boom   |
|              | 10/06/03    |                                          | 32.52                           | 33.26                            | 3514.26                                           | 0.74                                         | 0.50                   | 1.00                              |                  |
| MW-3         | 05/16/02    | 3537.90                                  |                                 | 33.60                            | 3504.30                                           | 0.00                                         |                        |                                   |                  |
|              | 08/23/02    |                                          |                                 | 33.66                            | 3504.24                                           | 0.00                                         |                        |                                   |                  |
|              | 10/09/02    |                                          |                                 | 33.71                            | 3504.19                                           | 0.00                                         |                        |                                   |                  |
|              | 01/09/03    |                                          |                                 | 33.70                            | 3504.20                                           | 0.00                                         |                        |                                   |                  |
|              | 04/02/03    |                                          |                                 | 33.68                            | 3504.22                                           | 0.00                                         |                        |                                   |                  |
|              | 07/02/03    |                                          |                                 | 33.79                            | 3504.11                                           | 0.00                                         |                        |                                   |                  |
|              | 10/06/03    |                                          |                                 | 33.85                            | 3504.05                                           | 0.00                                         |                        |                                   |                  |
| MW-4         | 05/16/02    | 3547.97                                  |                                 | 33.57                            | 3514.40                                           | 0.00                                         |                        |                                   |                  |
|              | 08/23/02    |                                          |                                 | 33.62                            | 3514.35                                           | 0.00                                         |                        |                                   |                  |
|              | 10/09/03    |                                          |                                 | 33.68                            | 3514.29                                           | 0.00                                         |                        |                                   |                  |
|              | 01/09/03    |                                          |                                 | 33.65                            | 3514.32                                           | 0.00                                         |                        |                                   |                  |
|              | 04/02/03    |                                          |                                 | 33.66                            | 3514.31                                           | 0.00                                         |                        |                                   |                  |
|              | 07/02/03    |                                          |                                 | 33.74                            | 3514.23                                           | 0.00                                         |                        |                                   |                  |
|              | 10/06/03    |                                          |                                 | 33.81                            | 3514.16                                           | 0.00                                         |                        |                                   |                  |
| MW-5         | 05/16/02    | 3548.49                                  |                                 | 33.78                            | 3514.71                                           | 0.00                                         |                        |                                   |                  |
|              | 08/23/02    |                                          |                                 | 33.82                            | 3514.67                                           | 0.00                                         |                        |                                   |                  |
|              | 10/09/02    |                                          |                                 | 33.86                            | 3514.63                                           | 0.00                                         |                        |                                   |                  |
|              | 01/09/03    |                                          |                                 | 33.85                            | 3514.64                                           | 0.00                                         |                        |                                   |                  |
|              | 04/02/03    |                                          |                                 | 33.86                            | 3514.63                                           | 0.00                                         |                        |                                   |                  |
|              | 07/02/03    |                                          |                                 | 33.96                            | 3514.53                                           | 0.00                                         |                        |                                   |                  |
|              | 10/06/03    |                                          |                                 | 34.02                            | 3514.47                                           | 0.00                                         |                        |                                   |                  |

\*\* Correction Equation for Phase-Separated Hydrocarbons: Corrected Groundwater Elevation = Top of Casing

Corrected Groundwater Elevation = Top of Casing Elevation - [Depth to Water Below Top of Casing - (SG)(PSH Thickness)].

Specific Gravity (SG) = 0.9 for crude oil.

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**SHELL OIL PRODUCTS US**  
**JOHN HENDRIX**  
**MONUMENT, LEA COUNTY, NEW MEXICO**

| Monitor Well | Date Sampled | BTEX           |                |                     |                      |              | PAH             |                    |                        |  |
|--------------|--------------|----------------|----------------|---------------------|----------------------|--------------|-----------------|--------------------|------------------------|--|
|              |              | Benzene (mg/L) | Toluene (mg/L) | EthylBenzene (mg/L) | Total Xylenes (mg/L) | Total (mg/L) | Total (in mg/l) | Fluorene (in mg/l) | Phenanthrene (in mg/l) |  |
| MW-1         | 05/13/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 08/24/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 10/09/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.001          | <0.001             | <0.001                 |  |
|              | 01/09/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.001          | <0.001             | <0.001                 |  |
|              | 04/02/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.001          | <0.001             | <0.001                 |  |
|              | 07/02/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 10/06/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
| MW-2         | 05/13/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | 0.00070         | 0.00026            | 0.00044                |  |
|              | 08/24/02     | 0.0029         | <0.001         | <0.001              | <0.001               | 0.0029       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 10/09/02     | <0.001         | <0.001         | <0.001              | 0.0011               | 0.0011       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 01/09/03     | PSH            | PSH            | PSH                 | PSH                  | PSH          | PSH             | PSH                | PSH                    |  |
|              | 04/02/03     | PSH            | PSH            | PSH                 | PSH                  | PSH          | PSH             | PSH                | PSH                    |  |
|              | 07/02/03     | PSH            | PSH            | PSH                 | PSH                  | PSH          | PSH             | PSH                | PSH                    |  |
|              | 10/06/03     | PSH            | PSH            | PSH                 | PSH                  | PSH          | PSH             | PSH                | PSH                    |  |
| MW-3         | 05/13/02     | 0.0042         | <0.001         | <0.001              | <0.001               | 0.0042       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 08/24/02     | 0.0026         | <0.001         | <0.001              | <0.001               | 0.0026       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 10/09/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 01/09/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 04/02/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 07/02/03     | 0.0060         | 0.0066         | 0.0013              | 0.0019               | 0.0158       | <0.0002         | <0.0002            | <0.0002                |  |
|              | 10/06/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |  |

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**SHELL OIL PRODUCTS US**  
**JOHN HENDRIX**  
**MONUMENT, LEA COUNTY, NEW MEXICO**

| Monitor Well    | Date Sampled | BTEX           |                |                     |                      |              | PAH             |                    |                        |
|-----------------|--------------|----------------|----------------|---------------------|----------------------|--------------|-----------------|--------------------|------------------------|
|                 |              | Benzene (mg/L) | Toluene (mg/L) | EthylBenzene (mg/L) | Total Xylenes (mg/L) | Total (mg/L) | Total (in mg/l) | Fluorene (in mg/l) | Phenanthrene (in mg/l) |
| MW-4            | 05/13/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 08/24/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 10/09/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 01/09/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 04/02/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 07/02/03     | <0.001         | 0.001          | <0.001              | 0.0014               | 0.0024       | <0.0002         | <0.0002            | <0.0002                |
|                 | 10/06/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
| MW-5            | 05/13/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 08/24/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 10/09/02     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 01/09/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 04/02/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 07/02/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
|                 | 10/06/03     | <0.001         | <0.001         | <0.001              | <0.001               | <0.001       | <0.0002         | <0.0002            | <0.0002                |
| NMOCD Standards |              | 0.01           | 0.75           | 0.75                | 0.62                 | NA           | NA              | NA                 | NA                     |

NA-Not Applicable

PSH-Phase Separated Hydrocarbons

ATTACHMENT C

Analytical Data

6701 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

# TraceAnalysis, Inc.

155 McCutcheon Suite H  
El Paso, Texas 79932  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # AD3011024

### Company Name:

Environ Services Inc  
(Street, City, Zip)

### Phone #:

915-570-8706

Address:

306 West Wall Suite 1312, Midland, Tx 79701 915-684-7587

### Contact Person:

Jeffrey Kindley

### Invoice to:

Scott Burkey - Kent Springs

Incident # 300110

### Project #:

EQ-110

### Project Name:

John Hendrix

### Project Location:

Monument, New Mexico

### Sampler Signature:

Jeffrey Kindley

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | SAMPLING |               |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|---------------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     | DATE          |
| 218283                  | MW-1       | 3            | 40ml          | ✓      |      |     |        | ✓                   |                  |                                |      |     | ✓        | 01/09/03 1300 |
| 84                      | MW-3       | 3            | 1             | ✓      |      |     |        | ✓                   |                  |                                |      |     | ✓        | 01/09/03 1330 |
| 85                      | MW-4       | 3            | 1             | ✓      |      |     |        | ✓                   |                  |                                |      |     | ✓        | 01/09/03 1400 |
| 86                      | MW-5       | 3            | 1             | ✓      |      |     |        | ✓                   |                  |                                |      |     | ✓        | 01/09/03 1500 |

### 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 Semi Volatiles                              |   |
| TCLP Pesticides                                  |   |
| TCI                                              |   |
| GC/MS Vol. 8260B/624                             |   |
| GC/MS Semi. Vol. 8270C/625                       |   |
| PCBs 8082/608                                    |   |
| Pesticides 8081A/608                             |   |
| BOD, TSS, pH                                     |   |
| Turn Around Time if different from standard      |   |

### Relinquished by:

Date: 01/09/03 Time: 1700

Received by:

Date: 01/09/03 Time: 1700

Received by:

Date: 1-10-03 Time: 10:00

Relinquished by:

Date: 01/09/03 Time: 1830

Received by:

Date: 1-10-03 Time: 10:00

Received at Laboratory by:

Date: 1-10-03 Time: 10:00

Received by:

Date: 1-10-03 Time: 10:00

Relinquished by:

Date: 01/09/03 Time: 1830

Received by:

Date: 1-10-03 Time: 10:00

Received at Laboratory by:

Date: 1-10-03 Time: 10:00

Received by:

Date: 1-10-03 Time: 10:00

Relinquished by:

Date: 01/09/03 Time: 1830

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Date: 1-10-03 Time: 10:00

Received at Laboratory by:

Date: 1-10-03 Time: 10:00

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Date: 1-10-03 Time: 10:00

Relinquished by:

Date: 01/09/03 Time: 1830

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Date: 1-10-03 Time: 10:00

Relinquished by:

Date: 01/09/03 Time: 1830

Received by:

Date: 1-10-03 Time: 10:00

Received at Laboratory by:

</

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: January 30, 2003 Order Number: A03011024

EQ-110

300110

Page Number: 3 of 3  
Monument, New Mexico**Sample: 218286 - MW-5**

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

*This is only a summary. Please, refer to the complete report package for quality control data.*

# TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424  
El Paso, Texas 79932

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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

Ken Springer  
Equiva Ken Springer  
777 Walker St. RM 1211  
Houston, TX 77002

Report Date: January 30, 2003

Order ID Number: A03011024

Project: EQ-110  
TA Job Code: 300110  
Casualty Code: EQ-110  
Project Location: Monument, New Mexico  
Enercon Services Inc. / Midland / Jeff Kindley

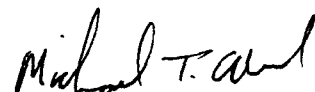
Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 218283 | MW-1        | Water  | 1/9/03     | 13:00      | 1/10/03       |
| 218284 | MW-3        | Water  | 1/9/03     | 13:30      | 1/10/03       |
| 218285 | MW-4        | Water  | 1/9/03     | 14:00      | 1/10/03       |
| 218286 | MW-5        | Water  | 1/9/03     | 15:00      | 1/10/03       |

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. Note: the RDL is equal to MQL for all organic analytes including TPH. The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.



Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 218283 - MW-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC26134 Date Analyzed: 1/11/03  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB24170 Date Prepared: 1/11/03

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| MTBE         |      | <0.001 | mg/L  | 1        | 0.001 |
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.100  | mg/L  | 1        | 0.10         | 100              | 70 - 130        |
| 4-BFB     |      | 0.0783 | mg/L  | 1        | 0.10         | 78               | 70 - 130        |

### Sample: 218283 - MW-1

Analysis: PAH Analytical Method: S 8270C QC Batch: QC26461 Date Analyzed: 1/16/03  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24411 Date Prepared: 1/10/03

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 57.87  | mg/L  | 1        | 80           | 72               | 35 - 114        |
| 2-Fluorobiphenyl |      | 58.13  | mg/L  | 1        | 80           | 72               | 43 - 116        |
| Terphenyl-d14    |      | 61.33  | mg/L  | 1        | 80           | 76               | 33 - 141        |

Report Date: January 30, 2003  
EQ-110

Order Number: A03011024  
300110

Page Number: 3 of 10  
Monument, New Mexico

**Sample: 218284 - MW-3**

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC26134 Date Analyzed: 1/11/03  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB24170 Date Prepared: 1/11/03

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| MTBE         |      | <0.001 | mg/L  | 1        | 0.001 |
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.098  | mg/L  | 1        | 0.10         | 98               | 70 - 130        |
| 4-BFB     |      | 0.0803 | mg/L  | 1        | 0.10         | 80               | 70 - 130        |

**Sample: 218284 - MW-3**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC26667 Date Analyzed: 1/29/03  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24411 Date Prepared: 1/10/03

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Test Comments          |      | <0.0002 | mg/L  | 1        |        |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 52.17  | mg/L  | 1        | 80           | 65               | 35 - 114        |
| 2-Fluorobiphenyl |      | 50.63  | mg/L  | 1        | 80           | 63               | 43 - 116        |
| Terphenyl-d14    |      | 48.16  | mg/L  | 1        | 80           | 60               | 33 - 141        |

**Sample: 218285 - MW-4**

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC26134 Date Analyzed: 1/11/03  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB24170 Date Prepared: 1/11/03

Report Date: January 30, 2003  
EQ-110

Order Number: A03011024  
300110

Page Number: 4 of 10  
Monument, New Mexico

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| MTBE         |      | <0.001 | mg/L  | 1        | 0.001 |
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.097  | mg/L  | 1        | 0.10         | 97               | 70 - 130        |
| 4-BFB     |      | 0.0761 | mg/L  | 1        | 0.10         | 76               | 70 - 130        |

**Sample: 218285 - MW-4**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC26667 Date Analyzed: 1/29/03  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24411 Date Prepared: 1/10/03

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Test Comments          |      | <0.0002 | mg/L  | 1        |        |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 80.61  | mg/L  | 1        | 80           | 100              | 35 - 114        |
| 2-Fluorobiphenyl |      | 81.15  | mg/L  | 1        | 80           | 101              | 43 - 116        |
| Terphenyl-d14    |      | 88.59  | mg/L  | 1        | 80           | 110              | 33 - 141        |

**Sample: 218286 - MW-5**

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC26134 Date Analyzed: 1/11/03  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB24170 Date Prepared: 1/11/03

| Param   | Flag | Result | Units | Dilution | RDL   |
|---------|------|--------|-------|----------|-------|
| MTBE    |      | <0.001 | mg/L  | 1        | 0.001 |
| Benzene |      | <0.001 | mg/L  | 1        | 0.001 |

Continued ...

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... Continued Sample: 218286 Analysis: BTEX

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0973 | mg/L  | 1        | 0.10         | 97               | 70 - 130        |
| 4-BFB     |      | 0.0741 | mg/L  | 1        | 0.10         | 74               | 70 - 130        |

**Sample: 218286 - MW-5**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC26461 Date Analyzed: 1/16/03  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB24411 Date Prepared: 1/10/03

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 49.38  | mg/L  | 1        | 80           | 61               | 35 - 114        |
| 2-Fluorobiphenyl |      | 54.7   | mg/L  | 1        | 80           | 68               | 43 - 116        |
| Terphenyl-d14    |      | 58.52  | mg/L  | 1        | 80           | 73               | 33 - 141        |

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC26134

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| MTBE         |      | <0.001  | mg/L  | 0.001           |
| Benzene      |      | <0.001  | mg/L  | 0.001           |
| Toluene      |      | <0.001  | mg/L  | 0.001           |
| Ethylbenzene |      | <0.001  | mg/L  | 0.001           |
| M,P,O-Xylene |      | <0.001  | mg/L  | 0.001           |
| Total BTEX   |      | <0.001  | mg/L  | 0.001           |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.096  | mg/L  | 1        | 0.10         | 96               | 70 - 130        |
| 4-BFB     |      | 0.0741 | mg/L  | 1        | 0.10         | 74               | 70 - 130        |

Method Blank      QCBatch:    QC26461

| Param                  | Flag | Results | Units | Reporting Limit |
|------------------------|------|---------|-------|-----------------|
| Naphthalene            |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthylene         |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthene           |      | <0.0002 | mg/L  | 0.0002          |
| Fluorene               |      | <0.0002 | mg/L  | 0.0002          |
| Phenanthrene           |      | <0.0002 | mg/L  | 0.0002          |
| Anthracene             |      | <0.0002 | mg/L  | 0.0002          |
| Fluoranthene           |      | <0.0002 | mg/L  | 0.0002          |
| Pyrene                 |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 0.0002          |
| Chrysene               |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 0.0002          |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 0.0002          |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 0.0002          |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 90.89  | mg/L  | 1        | 80           | 113              | 35 - 114        |
| 2-Fluorobiphenyl |      | 92.08  | mg/L  | 1        | 80           | 115              | 43 - 116        |
| Terphenyl-d14    |      | 108.8  | mg/L  | 1        | 80           | 136              | 33 - 141        |

Method Blank      QCBatch:    QC26667

| Param                  | Flag | Results | Units | Reporting Limit |
|------------------------|------|---------|-------|-----------------|
| Naphthalene            |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthylene         |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthene           |      | <0.0002 | mg/L  | 0.0002          |
| Fluorene               |      | <0.0002 | mg/L  | 0.0002          |
| Phenanthrene           |      | <0.0002 | mg/L  | 0.0002          |
| Anthracene             |      | <0.0002 | mg/L  | 0.0002          |
| Fluoranthene           |      | <0.0002 | mg/L  | 0.0002          |
| Pyrene                 |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 0.0002          |
| Chrysene               |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 0.0002          |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 0.0002          |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 0.0002          |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 87.91  | mg/L  | 1        | 80           | 109              | 35 - 114        |
| 2-Fluorobiphenyl |      | 90.37  | mg/L  | 1        | 80           | 112              | 43 - 116        |
| Terphenyl-d14    |      | 102.7  | mg/L  | 1        | 80           | 128              | 33 - 141        |

### Quality Control Report Lab Control Spikes and Duplicate Spikes

#### Laboratory Control Spikes

QCBatch: QC26134

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| MTBE         | 0.103      | 0.102       | mg/L  | 1    | 0.10               | <0.001        | 103   | 1   | 70 - 130    | 20        |
| Benzene      | 0.0982     | 0.0964      | mg/L  | 1    | 0.10               | <0.001        | 98    | 2   | 70 - 130    | 20        |
| Toluene      | 0.0993     | 0.0978      | mg/L  | 1    | 0.10               | <0.001        | 99    | 2   | 70 - 130    | 20        |
| Ethylbenzene | 0.0985     | 0.0976      | mg/L  | 1    | 0.10               | <0.001        | 98    | 1   | 70 - 130    | 20        |
| M,P,O-Xylene | 0.293      | 0.291       | mg/L  | 1    | 0.30               | <0.001        | 98    | 1   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.0938     | 0.0962      | mg/L  | 1        | 0.10         | 94        | 96         | 70 - 130        |
| 4-BFB     | 0.0956     | 0.0982      | mg/L  | 1        | 0.10         | 96        | 98         | 70 - 130        |

#### Laboratory Control Spikes

QCBatch: QC26461

| Param                  | LCS<br>Result      | LCSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|------------------------|--------------------|----------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| Naphthalene            | <sup>1</sup> 77.36 | 83.73          | mg/L  | 1    | 80                       | <0.0002          | 96    | 7   | 16 - 96        | 20           |
| Acenaphthylene         | 88.88              | 92.3           | mg/L  | 1    | 80                       | <0.0002          | 111   | 3   | 20 - 110       | 20           |
| Acenaphthene           | 81.33              | 84.25          | mg/L  | 1    | 80                       | <0.0002          | 101   | 3   | 18 - 108       | 20           |
| Fluorene               | 86.02              | 88.89          | mg/L  | 1    | 80                       | <0.0002          | 107   | 3   | 22 - 102       | 20           |
| Phenanthrene           | 87.77              | 88.63          | mg/L  | 1    | 80                       | <0.0002          | 109   | 0   | 25 - 103       | 20           |
| Anthracene             | 92.01              | 92.28          | mg/L  | 1    | 80                       | <0.0002          | 115   | 0   | 22 - 110       | 20           |
| Fluoranthene           | 91.57              | 93.19          | mg/L  | 1    | 80                       | <0.0002          | 114   | 1   | 21 - 110       | 20           |
| Pyrene                 | 88.88              | 90.44          | mg/L  | 1    | 80                       | <0.0002          | 111   | 1   | 22 - 100       | 20           |
| Benzo(a)anthracene     | 79.69              | 82.42          | mg/L  | 1    | 80                       | <0.0002          | 99    | 3   | 30 - 99        | 20           |
| Chrysene               | 54.2               | 54.98          | mg/L  | 1    | 80                       | <0.0002          | 67    | 1   | 27 - 108       | 20           |
| Benzo(b)fluoranthene   | 89.93              | 88.1           | mg/L  | 1    | 80                       | <0.0002          | 112   | 2   | 19 - 102       | 20           |
| Benzo(k)fluoranthene   | 89.06              | 91.42          | mg/L  | 1    | 80                       | <0.0002          | 111   | 2   | 35 - 103       | 20           |
| Benzo(a)pyrene         | 95.31              | 97.59          | mg/L  | 1    | 80                       | <0.0002          | 119   | 2   | 24 - 105       | 20           |
| Indeno(1,2,3-cd)pyrene | 76.18              | 75.2           | mg/L  | 1    | 80                       | <0.0002          | 95    | 1   | 22 - 108       | 20           |
| Dibenzo(a,h)anthracene | 59.51              | 58.28          | mg/L  | 1    | 80                       | <0.0002          | 74    | 2   | 23 - 77        | 20           |
| Benzo(g,h,i)perylene   | 82.72              | 78.6           | mg/L  | 1    | 80                       | <0.0002          | 103   | 5   | 19 - 119       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
|------------------|---------------|----------------|-------|----------|-----------------|--------------|---------------|--------------------|
| Nitrobenzene-d5  | 89.28         | 87.41          | mg/L  | 1        | 80              | 111          | 109           | 35 - 114           |
| 2-Fluorobiphenyl | 89.93         | 92.08          | mg/L  | 1        | 80              | 112          | 115           | 43 - 116           |
| Terphenyl-d14    | 96.57         | 98.4           | mg/L  | 1        | 80              | 120          | 123           | 33 - 141           |

## Laboratory Control Spikes

QCBatch: QC26667

| Param                  | LCS<br>Result      | LCSD<br>Result | Units | Dil. | Spike<br>Amount<br>Added | Matrix<br>Result | % Rec | RPD | % Rec<br>Limit | RPD<br>Limit |
|------------------------|--------------------|----------------|-------|------|--------------------------|------------------|-------|-----|----------------|--------------|
| Naphthalene            | <sup>2</sup> 82.36 | 84.37          | mg/L  | 1    | 80                       | <0.0002          | 102   | 2   | 16 - 96        | 20           |
| Acenaphthylene         | 87.26              | 90.35          | mg/L  | 1    | 80                       | <0.0002          | 109   | 3   | 20 - 110       | 20           |
| Acenaphthene           | 83.7               | 87.92          | mg/L  | 1    | 80                       | <0.0002          | 104   | 4   | 18 - 108       | 20           |
| Fluorene               | 87.55              | 89.18          | mg/L  | 1    | 80                       | <0.0002          | 109   | 1   | 22 - 102       | 20           |
| Phenanthrene           | 95.14              | 95.97          | mg/L  | 1    | 80                       | <0.0002          | 118   | 0   | 25 - 103       | 20           |
| Anthracene             | 67.46              | 66.85          | mg/L  | 1    | 80                       | <0.0002          | 84    | 0   | 22 - 110       | 20           |
| Fluoranthene           | 88.84              | 91.03          | mg/L  | 1    | 80                       | <0.0002          | 111   | 2   | 21 - 110       | 20           |
| Pyrene                 | 83.86              | 79.66          | mg/L  | 1    | 80                       | <0.0002          | 104   | 5   | 22 - 100       | 20           |
| Benzo(a)anthracene     | 96.45              | 91.13          | mg/L  | 1    | 80                       | <0.0002          | 120   | 5   | 30 - 99        | 20           |
| Chrysene               | 66.89              | 69.21          | mg/L  | 1    | 80                       | <0.0002          | 83    | 3   | 27 - 108       | 20           |
| Benzo(b)fluoranthene   | 81.63              | 92.95          | mg/L  | 1    | 80                       | <0.0002          | 102   | 12  | 19 - 102       | 20           |
| Benzo(k)fluoranthene   | 84.57              | 83.06          | mg/L  | 1    | 80                       | <0.0002          | 105   | 1   | 35 - 103       | 20           |
| Benzo(a)pyrene         | 74.31              | 89.77          | mg/L  | 1    | 80                       | <0.0002          | 92    | 18  | 24 - 105       | 20           |
| Indeno(1,2,3-cd)pyrene | 82.04              | 90.48          | mg/L  | 1    | 80                       | <0.0002          | 102   | 9   | 22 - 108       | 20           |
| Dibenzo(a,h)anthracene | 82.59              | 87.8           | mg/L  | 1    | 80                       | <0.0002          | 103   | 6   | 23 - 77        | 20           |
| Benzo(g,h,i)perylene   | 89.4               | 89.45          | mg/L  | 1    | 80                       | <0.0002          | 111   | 0   | 19 - 119       | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Continued ...

<sup>1</sup>Spikes over concentrated during prep. Samples qualified by a non-detect report.

<sup>2</sup>Spikes over concentrated during prep. Samples qualified by a non-detect report.

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| Surrogate        | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
|------------------|---------------|----------------|-------|----------|-----------------|--------------|---------------|--------------------|
| Surrogate        | LCS<br>Result | LCSD<br>Result | Units | Dilution | Spike<br>Amount | LCS<br>% Rec | LCSD<br>% Rec | Recovery<br>Limits |
| Nitrobenzenc-d5  | 89.31         | 88.19          | mg/L  | 1        | 80              | 111          | 110           | 35 - 114           |
| 2-Fluorobiphenyl | 87.96         | 91.21          | mg/L  | 1        | 80              | 109          | 114           | 43 - 116           |
| Terphenyl-d14    | 110.4         | 105.2          | mg/L  | 1        | 80              | 138          | 131           | 33 - 141           |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1)      QCBatch:    QC26134

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0978                 | 98                          | 85 - 115                      | 1/11/03          |
| Benzene      |      | mg/L  | 0.10                  | 0.0884                 | 88                          | 85 - 115                      | 1/11/03          |
| Toluene      |      | mg/L  | 0.10                  | 0.0896                 | 90                          | 85 - 115                      | 1/11/03          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0891                 | 89                          | 85 - 115                      | 1/11/03          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.268                  | 89                          | 85 - 115                      | 1/11/03          |

CCV (2)      QCBatch:    QC26134

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.1                    | 100                         | 85 - 115                      | 1/11/03          |
| Benzene      |      | mg/L  | 0.10                  | 0.094                  | 94                          | 85 - 115                      | 1/11/03          |
| Toluene      |      | mg/L  | 0.10                  | 0.095                  | 95                          | 85 - 115                      | 1/11/03          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.096                  | 96                          | 85 - 115                      | 1/11/03          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.285                  | 95                          | 85 - 115                      | 1/11/03          |

ICV (1)      QCBatch:    QC26134

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.101                  | 101                         | 85 - 115                      | 1/11/03          |
| Benzene      |      | mg/L  | 0.10                  | 0.0951                 | 95                          | 85 - 115                      | 1/11/03          |
| Toluene      |      | mg/L  | 0.10                  | 0.0964                 | 96                          | 85 - 115                      | 1/11/03          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0964                 | 96                          | 85 - 115                      | 1/11/03          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.290                  | 97                          | 85 - 115                      | 1/11/03          |

CCV (1)      QCBatch:    QC26461

| 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                    | 63.85                  | 106                         | 80 - 120                      | 1/16/03          |
| Acenaphthylene         |      | mg/L  | 60                    | 67.25                  | 112                         | 80 - 120                      | 1/16/03          |
| Acenaphthene           |      | mg/L  | 60                    | 64.4                   | 107                         | 80 - 120                      | 1/16/03          |
| Fluorene               |      | mg/L  | 60                    | 59.07                  | 98                          | 80 - 120                      | 1/16/03          |
| Phenanthrene           |      | mg/L  | 60                    | 71.28                  | 118                         | 80 - 120                      | 1/16/03          |
| Anthracene             |      | mg/L  | 60                    | 63.7                   | 106                         | 80 - 120                      | 1/16/03          |
| Fluoranthene           |      | mg/L  | 60                    | 70.23                  | 117                         | 80 - 120                      | 1/16/03          |
| Pyrene                 |      | mg/L  | 60                    | 68.58                  | 114                         | 80 - 120                      | 1/16/03          |
| Benzo(a)anthracene     |      | mg/L  | 60                    | 66.76                  | 111                         | 80 - 120                      | 1/16/03          |
| Chrysene               |      | mg/L  | 60                    | 56.75                  | 94                          | 80 - 120                      | 1/16/03          |
| Benzo(b)fluoranthene   |      | mg/L  | 60                    | 70.26                  | 117                         | 80 - 120                      | 1/16/03          |
| Benzo(k)fluoranthene   |      | mg/L  | 60                    | 53.98                  | 89                          | 80 - 120                      | 1/16/03          |
| Benzo(a)pyrene         |      | mg/L  | 60                    | 63.69                  | 106                         | 80 - 120                      | 1/16/03          |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60                    | 48.34                  | 80                          | 80 - 120                      | 1/16/03          |
| Dibenzo(a,h)anthracene |      | mg/L  | 60                    | 49.68                  | 82                          | 80 - 120                      | 1/16/03          |
| Benzo(g,h,i)perylene   |      | mg/L  | 60                    | 48.69                  | 81                          | 80 - 120                      | 1/16/03          |
| Nitrobenzene-d5        |      | mg/L  | 60                    | 69.24                  | 115                         | 80 - 120                      | 1/16/03          |
| 2-Fluorobiphenyl       |      | mg/L  | 60                    | 67.66                  | 112                         | 80 - 120                      | 1/16/03          |
| Terphenyl-d14          |      | mg/L  | 60                    | 69.76                  | 116                         | 80 - 120                      | 1/16/03          |

CCV (1)

QCBatch: QC26667

| 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                    | 62.36                  | 103                         | 80 - 120                      | 1/29/03          |
| Acenaphthylene         |      | mg/L  | 60                    | 63.68                  | 106                         | 80 - 120                      | 1/29/03          |
| Acenaphthene           |      | mg/L  | 60                    | 62.4                   | 104                         | 80 - 120                      | 1/29/03          |
| Fluorene               |      | mg/L  | 60                    | 57.94                  | 96                          | 80 - 120                      | 1/29/03          |
| Phenanthrene           |      | mg/L  | 60                    | 62.78                  | 104                         | 80 - 120                      | 1/29/03          |
| Anthracene             |      | mg/L  | 60                    | 63.3                   | 105                         | 80 - 120                      | 1/29/03          |
| Fluoranthene           |      | mg/L  | 60                    | 63.36                  | 105                         | 80 - 120                      | 1/29/03          |
| Pyrene                 |      | mg/L  | 60                    | 63.34                  | 105                         | 80 - 120                      | 1/29/03          |
| Benzo(a)anthracene     |      | mg/L  | 60                    | 65.06                  | 108                         | 80 - 120                      | 1/29/03          |
| Chrysene               |      | mg/L  | 60                    | 62.24                  | 103                         | 80 - 120                      | 1/29/03          |
| Benzo(b)fluoranthene   |      | mg/L  | 60                    | 63.99                  | 106                         | 80 - 120                      | 1/29/03          |
| Benzo(k)fluoranthene   |      | mg/L  | 60                    | 60.67                  | 101                         | 80 - 120                      | 1/29/03          |
| Benzo(a)pyrene         |      | mg/L  | 60                    | 63.49                  | 105                         | 80 - 120                      | 1/29/03          |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60                    | 66.87                  | 111                         | 80 - 120                      | 1/29/03          |
| Dibenzo(a,h)anthracene |      | mg/L  | 60                    | 64.84                  | 108                         | 80 - 120                      | 1/29/03          |
| Benzo(g,h,i)perylene   |      | mg/L  | 60                    | 63.74                  | 106                         | 80 - 120                      | 1/29/03          |
| Nitrobenzene-d5        |      | mg/L  | 60                    | 65.61                  | 109                         | 80 - 120                      | 1/29/03          |
| 2-Fluorobiphenyl       |      | mg/L  | 60                    | 63.82                  | 106                         | 80 - 120                      | 1/29/03          |
| Terphenyl-d14          |      | mg/L  | 60                    | 63.45                  | 105                         | 80 - 120                      | 1/29/03          |

Report Date: January 30, 2003 Order Number: A03011024  
EQ-110 300110

Page Number: 1 of 3  
Monument, New Mexico

## Summary Report

Ken Springer  
Equiva Ken Springer  
777 Walker St. RM 1211  
Houston, TX 77002

Report Date: January 30, 2003

Order ID Number: A03011024

Project: EQ-110  
TA Job Code: 300110  
Casualty Code: EQ-110  
Project Location: Monument, New Mexico  
Project Address:  
Enercon Services Inc. / Midland / Jeff Kindley

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 218283 | MW-1        | Water  | 1/9/03     | 13:00      | 1/10/03       |
| 218284 | MW-3        | Water  | 1/9/03     | 13:30      | 1/10/03       |
| 218285 | MW-4        | Water  | 1/9/03     | 14:00      | 1/10/03       |
| 218286 | MW-5        | Water  | 1/9/03     | 15:00      | 1/10/03       |

0 This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

| Sample - Field Code | BTEx          |                  |                  |                       |                       |                     |
|---------------------|---------------|------------------|------------------|-----------------------|-----------------------|---------------------|
|                     | MTBE<br>(ppm) | Benzene<br>(ppm) | Toluene<br>(ppm) | Ethylbenzene<br>(ppm) | M,P,O-Xylene<br>(ppm) | Total BTEx<br>(ppm) |
| 218283 - MW-1       | <0.001        | <0.001           | <0.001           | <0.001                | <0.001                | <0.001              |
| 218284 - MW-3       | <0.001        | <0.001           | <0.001           | <0.001                | <0.001                | <0.001              |
| 218285 - MW-4       | <0.001        | <0.001           | <0.001           | <0.001                | <0.001                | <0.001              |
| 218286 - MW-5       | <0.001        | <0.001           | <0.001           | <0.001                | <0.001                | <0.001              |

### Sample: 218283 - MW-1

| Param                | Flag | Result  | Units |
|----------------------|------|---------|-------|
| Naphthalene          |      | <0.0002 | mg/L  |
| Acenaphthylene       |      | <0.0002 | mg/L  |
| Acenaphthene         |      | <0.0002 | mg/L  |
| Fluorene             |      | <0.0002 | mg/L  |
| Phenanthrene         |      | <0.0002 | mg/L  |
| Anthracene           |      | <0.0002 | mg/L  |
| Fluoranthene         |      | <0.0002 | mg/L  |
| Pyrene               |      | <0.0002 | mg/L  |
| Benzo(a)anthracene   |      | <0.0002 | mg/L  |
| Chrysene             |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene |      | <0.0002 | mg/L  |

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: January 30, 2003 Order Number: A03011024  
EQ-110 300110Page Number: 2 of 3  
Monument, New Mexico

Sample 218283 continued ...

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

## Sample: 218284 - MW-3

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |
| Test Comments          |      | <0.0002 | mg/L  |

## Sample: 218285 - MW-4

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |
| Test Comments          |      | <0.0002 | mg/L  |

This is only a summary. Please, refer to the complete report package for quality control data.

6701 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

# TraceAnalysis, Inc.

155 McCutcheon, Suite H  
El Paso, Texas 79932  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3040418

|                           |                                                                     |                    |                 |
|---------------------------|---------------------------------------------------------------------|--------------------|-----------------|
| Company Name:             | Envision Services Inc                                               | Phone #:           | 915-570-8726    |
| Address:                  | (Street, City, Zip)<br>306 West Wood, Suite 1312, Midland, TX 79701 | Fax #:             | 915-684-7587    |
| Contact Person:           | Jeffrey Kindley                                                     |                    |                 |
| Invoice to:               | Red Springs                                                         |                    |                 |
| (If different from above) | Solo Oil Company                                                    |                    |                 |
| Project #:                | EQ-110                                                              | Project Name:      | John Meredith   |
|                           | Incident # 300110                                                   |                    |                 |
| Project Location:         | Monticourt, New Mexico                                              | Sampler Signature: | Jeffrey Kindley |

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

MTBE 80218/602  
BTEx 80218/602  
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/624  
GC/MS Semi. Vol. 8270C/625  
PCBs 8082/608  
Pesticides 8081A/608  
BOD, TSS, pH  
Turn Around Time if different from standard

[illegible]

| Relinquished by: | Date:         | Time: | Received by:               | Date:   | Time: |
|------------------|---------------|-------|----------------------------|---------|-------|
| John Kirby       | April 3, 2003 | 0900  | Helen Shelton              | 4/03/02 | 0900  |
| Relinquished by: | Date:         | Time: | Received by:               | Date:   | Time: |
| Helen Shelton    | 4/03/03       | 1830  |                            |         |       |
| Relinquished by: | Date:         | Time: | Received at Laboratory by: | Date:   | Time: |
|                  |               |       | Vict. Wang                 | 4.4.03  | 13:39 |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O. 012 samples - HS

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O. of 2 samples - 15

ORIGINAL COPY

## Summary Report

Ken Springer  
Equiva-Ken Springer  
777 Walker St. RM 1211  
Houston, TX 77002

Report Date: April 16, 2003

Work Order: 3040418

Incident #: 300110  
Project Location: Monument, New Mexico  
Project Name: John Hendrix  
Project Number: EQ-110  
Project #: EQ-110

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 4379   | MW-1        | water  | 2003-04-02 | 11:45      | 2003-04-04    |
| 4380   | MW-3        | water  | 2003-04-02 | 12:00      | 2003-04-04    |
| 4381   | MW-4        | water  | 2003-04-02 | 12:15      | 2003-04-04    |
| 4382   | MW-5        | water  | 2003-04-02 | 12:30      | 2003-04-04    |

| Sample - Field Code | BTX               |                   |                        |                            |
|---------------------|-------------------|-------------------|------------------------|----------------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene (isomers)<br>(mg/L) |
| 4379 - MW-1         | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |
| 4380 - MW-3         | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |
| 4381 - MW-4         | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |
| 4382 - MW-5         | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |

### Sample: 4379 - MW-1

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

### Sample: 4380 - MW-3

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

Sample: 4381 - MW-4

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

Sample: 4382 - MW-5

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |

continued ...

Report Date: April 16, 2003  
EQ-110

Work Order: 3040418  
John Hendrix

Page Number: 3 of 3  
Monument, New Mexico

*sample 4382 continued ...*

| Param                | Flag | Result    | Units | RL    |
|----------------------|------|-----------|-------|-------|
| Benzo(g,h,i)perylene |      | <0.000200 | mg/L  | 0.200 |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
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Lubbock, Texas 79424  
El Paso, Texas 79932

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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

Ken Springer  
Equiva-Ken Springer  
777 Walker St. RM 1211  
Houston, TX 77002

Report Date: April 16, 2003

Work Order: 3040418

Incident #: 300110  
Project Location: Monument, New Mexico  
Project Name: John Hendrix  
Project Number: EQ-110  
Project #: EQ-110

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 4379   | MW-1        | water  | 2003-04-02 | 11:45      | 2003-04-04    |
| 4380   | MW-3        | water  | 2003-04-02 | 12:00      | 2003-04-04    |
| 4381   | MW-4        | water  | 2003-04-02 | 12:15      | 2003-04-04    |
| 4382   | MW-5        | water  | 2003-04-02 | 12:30      | 2003-04-04    |

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 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

## Analytical Report

Sample: 4379 - MW-1

Analysis: BTEX  
QC Batch: 790  
Prep Batch: 725

Analytical Method: S 8021B  
Date Analyzed: 2003-04-04  
Date Prepared: 2003-04-04

Prep Method: S 5030B  
Analyzed By: CG  
Prepared By: CG

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0988 | mg/L  | 1        | 0.100           | 99                  | 78.7 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0954 | mg/L  | 1        | 0.100           | 95                  | 77.8 - 110         |

Sample: 4379 - MW-1

Analysis: PAH  
QC Batch: 994  
Prep Batch: 733

Analytical Method: S 8270C  
Date Analyzed: 2003-04-11  
Date Prepared: 2003-04-07

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0549 | mg/L  | 0.001    | 80.0            | 69                  | 21 - 145           |
| 2-Fluorobiphenyl |      | 0.0592 | mg/L  | 0.001    | 80.0            | 74                  | 25 - 145           |
| Terphenyl-d14    |      | 0.0603 | mg/L  | 0.001    | 80.0            | 75                  | 76 - 127           |

Sample: 4380 - MW-3

Analysis: BTEX  
QC Batch: 790  
Prep Batch: 725

Analytical Method: S 8021B  
Date Analyzed: 2003-04-04  
Date Prepared: 2003-04-04

Prep Method: S 5030B  
Analyzed By: CG  
Prepared By: CG

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0956 | mg/L  | 1        | 0.100           | 96                  | 78.7 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0945 | mg/L  | 1        | 0.100           | 94                  | 77.8 - 110         |

Sample: 4380 - MW-3

Analysis: PAH  
QC Batch: 994  
Prep Batch: 733

Analytical Method: S 8270C  
Date Analyzed: 2003-04-11  
Date Prepared: 2003-04-07

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0602 | mg/L  | 0.001    | 80.0            | 75                  | 21 - 145           |
| 2-Fluorobiphenyl |      | 0.0708 | mg/L  | 0.001    | 80.0            | 88                  | 25 - 145           |
| Terphenyl-d14    |      | 0.067  | mg/L  | 0.001    | 80.0            | 84                  | 76 - 127           |

Sample: 4381 - MW-4

Analysis: BTEX  
QC Batch: 790  
Prep Batch: 725

Analytical Method: S 8021B  
Date Analyzed: 2003-04-04  
Date Prepared: 2003-04-04

Prep Method: S 5030B  
Analyzed By: CG  
Prepared By: CG

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       | 1    | 0.0698 | mg/L  | 1        | 0.100        | 70               | 78.7 - 110      |
| 4-Bromofluorobenzene (4-BFB) | 2    | 0.0684 | mg/L  | 1        | 0.100        | 68               | 77.8 - 110      |

Sample: 4381 - MW-4

Analysis: PAH  
QC Batch: 994  
Prep Batch: 733

Analytical Method: S 8270C  
Date Analyzed: 2003-04-11  
Date Prepared: 2003-04-07

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL Result | Units | Dilution | RL    |
|------------------------|------|-----------|-------|----------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0566 | mg/L  | 0.001    | 80.0         | 71               | 21 - 145        |
| 2-Fluorobiphenyl |      | 0.0615 | mg/L  | 0.001    | 80.0         | 77               | 25 - 145        |
| Terphenyl-d14    |      | 0.0663 | mg/L  | 0.001    | 80.0         | 83               | 76 - 127        |

Sample: 4382 - MW-5

Analysis: BTEX  
QC Batch: 790  
Prep Batch: 725

Analytical Method: S 8021B  
Date Analyzed: 2003-04-04  
Date Prepared: 2003-04-04

Prep Method: S 5030B  
Analyzed By: CG  
Prepared By: CG

| Parameter        | Flag | RL Result | Units | Dilution | RL      |
|------------------|------|-----------|-------|----------|---------|
| Benzene          |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100  | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0843 | mg/L  | 1        | 0.100        | 84               | 78.7 - 110      |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0819 | mg/L  | 1        | 0.100        | 82               | 77.8 - 110      |

Sample: 4382 - MW-5

<sup>1</sup>Surrogate recovery outside normal limits due to matrix interference.

<sup>2</sup>Surrogate recovery outside normal limits due to matrix interference.

Analysis: PAH  
QC Batch: 994  
Prep Batch: 733

Analytical Method: S 8270C  
Date Analyzed: 2003-04-11  
Date Prepared: 2003-04-07

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0477 | mg/L  | 0.001    | 80.0            | 60                  | 21 - 145           |
| 2-Fluorobiphenyl |      | 0.058  | mg/L  | 0.001    | 80.0            | 72                  | 25 - 145           |
| Terphenyl-d14    |      | 0.0555 | mg/L  | 0.001    | 80.0            | 69                  | 76 - 127           |

Method Blank (1) QC Batch: 790

| Parameter        | Flag | Result    | Units | MDL     |
|------------------|------|-----------|-------|---------|
| Benzene          |      | <0.000410 | mg/L  | 0.00041 |
| Toluene          |      | <0.000760 | mg/L  | 0.00076 |
| Ethylbenzene     |      | <0.00120  | mg/L  | 0.0012  |
| Xylene (isomers) |      | <0.00183  | mg/L  | 0.00183 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.094  | mg/L  | 1        | 0.100           | 94                  | 78.7 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0885 | mg/L  | 1        | 0.100           | 88                  | 77.8 - 110         |

Method Blank (1) QC Batch: 994

| Parameter            | Flag | Result     | Units | MDL    |
|----------------------|------|------------|-------|--------|
| Naphthalene          |      | <0.0000445 | mg/L  | 0.0445 |
| Acenaphthylene       |      | <0.0000383 | mg/L  | 0.0383 |
| Acenaphthene         |      | <0.0000421 | mg/L  | 0.0421 |
| Fluorene             |      | <0.0000655 | mg/L  | 0.0655 |
| Phenanthrene         |      | <0.0000383 | mg/L  | 0.0383 |
| Anthracene           |      | <0.0000468 | mg/L  | 0.0468 |
| Fluoranthene         |      | <0.0000550 | mg/L  | 0.055  |
| Pyrene               |      | <0.0000904 | mg/L  | 0.0904 |
| Benzo(a)anthracene   |      | <0.0000993 | mg/L  | 0.0993 |
| Chrysene             |      | <0.000121  | mg/L  | 0.1207 |
| Benzo(b)fluoranthene |      | <0.000171  | mg/L  | 0.1707 |

continued ...

method blank continued . . .

| Parameter              | Flag | Result     | Units | MDL    |
|------------------------|------|------------|-------|--------|
| Benzo(k)fluoranthene   |      | <0.0000951 | mg/L  | 0.0951 |
| Benzo(a)pyrene         |      | <0.000135  | mg/L  | 0.1351 |
| Indeno(1,2,3-cd)pyrene |      | <0.000176  | mg/L  | 0.1764 |
| Dibenzo(a,h)anthracene |      | <0.000184  | mg/L  | 0.1843 |
| Benzo(g,h,i)perylene   |      | <0.000134  | mg/L  | 0.1343 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0603 | mg/L  | 0.001    | 80.0         | 75               | 21 - 145        |
| 2-Fluorobiphenyl |      | 0.0684 | mg/L  | 0.001    | 80.0         | 86               | 25 - 145        |
| Terphenyl-d14    |      | 0.0702 | mg/L  | 0.001    | 80.0         | 88               | 76 - 127        |

Laboratory Control Spike (LCS-1) QC Batch: 790

| Param            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene          | 0.0971     | 0.0979      | mg/L  | 1    | 0.100        | <0.000410     | 97   | 0   | 80.5 - 113 | 20        |
| Benzene          | 0.0971     | 0.0979      | mg/L  | 1    | 0.100        | <0.000410     | 97   | 0   | 80.5 - 113 | 20        |
| Toluene          | 0.0973     | 0.0973      | mg/L  | 1    | 0.100        | <0.000760     | 97   | 0   | 81.2 - 112 | 20        |
| Toluene          | 0.0973     | 0.0973      | mg/L  | 1    | 0.100        | <0.000760     | 97   | 0   | 81.2 - 112 | 20        |
| Ethylbenzene     | 0.0971     | 0.0976      | mg/L  | 1    | 0.100        | <0.00120      | 97   | 0   | 82.2 - 112 | 20        |
| Ethylbenzene     | 0.0971     | 0.0976      | mg/L  | 1    | 0.100        | <0.00120      | 97   | 0   | 82.2 - 112 | 20        |
| Xylene (isomers) | 0.294      | 0.296       | mg/L  | 1    | 0.300        | <0.00183      | 98   | 0   | 80.6 - 112 | 20        |
| Xylene (isomers) | 0.294      | 0.296       | mg/L  | 1    | 0.300        | <0.00183      | 98   | 0   | 80.6 - 112 | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 0.0937     | 0.0916      | mg/L  | 1    | 0.100        | 94       | 92        | 78.7 - 110 |
| Trifluorotoluene (TFT)       | 0.0937     | 0.0916      | mg/L  | 1    | 0.100        | 94       | 92        | 78.7 - 110 |
| 4-Bromofluorobenzene (4-BFB) | 0.0932     | 0.0917      | mg/L  | 1    | 0.100        | 93       | 92        | 77.8 - 110 |
| 4-Bromofluorobenzene (4-BFB) | 0.0932     | 0.0917      | mg/L  | 1    | 0.100        | 93       | 92        | 77.8 - 110 |

Laboratory Control Spike (LCS-1) QC Batch: 994

| Param                  | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Naphthalene            | 64.9       | 65.1        | mg/L  | 1    | 80.0         | <0.0445       | 81   | 0   | 21.4 - 134 | 20        |
| Acenaphthylene         | 71.9       | 71.3        | mg/L  | 1    | 80.0         | <0.0383       | 90   | 1   | 42.1 - 135 | 20        |
| Acenaphthene           | 70.3       | 69.5        | mg/L  | 1    | 80.0         | <0.0421       | 88   | 1   | 41 - 133   | 20        |
| Fluorene               | 68.3       | 68.1        | mg/L  | 1    | 80.0         | <0.0655       | 85   | 0   | 49.3 - 133 | 20        |
| Phenanthrene           | 72.2       | 72.5        | mg/L  | 1    | 80.0         | <0.0383       | 90   | 0   | 54.4 - 135 | 20        |
| Anthracene             | 73.3       | 73.9        | mg/L  | 1    | 80.0         | <0.0468       | 92   | 1   | 42.2 - 130 | 20        |
| Fluoranthene           | 77.1       | 76.7        | mg/L  | 1    | 80.0         | <0.0550       | 96   | 0   | 44.4 - 146 | 20        |
| Pyrene                 | 72.3       | 73.5        | mg/L  | 1    | 80.0         | <0.0904       | 90   | 2   | 52.8 - 137 | 20        |
| Benzo(a)anthracene     | 73.4       | 73.5        | mg/L  | 1    | 80.0         | <0.0993       | 92   | 0   | 59 - 134   | 20        |
| Chrysene               | 104        | 104         | mg/L  | 1    | 80.0         | <0.121        | 130  | 0   | 49.6 - 107 | 20        |
| Benzo(b)fluoranthene   | 66.8       | 68.9        | mg/L  | 1    | 80.0         | <0.171        | 84   | 3   | 43.2 - 134 | 20        |
| Benzo(k)fluoranthene   | 68.9       | 67.1        | mg/L  | 1    | 80.0         | <0.0951       | 86   | 3   | 55.2 - 145 | 20        |
| Benzo(a)pyrene         | 75.8       | 75.6        | mg/L  | 1    | 80.0         | <0.135        | 95   | 0   | 63.9 - 138 | 20        |
| Indeno(1,2,3-cd)pyrene | 80.3       | 79.9        | mg/L  | 1    | 80.0         | <0.176        | 100  | 0   | 64.6 - 145 | 20        |
| Dibenzo(a,h)anthracene | 89.4       | 90.2        | mg/L  | 1    | 80.0         | <0.184        | 112  | 1   | 48.6 - 112 | 20        |
| Benzo(g,h,i)perylene   | 78.6       | 78.3        | mg/L  | 1    | 80.0         | <0.134        | 98   | 0   | 71.5 - 146 | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Nitrobenzene-d5  | 58.5       | 58.2        | mg/L  | 1    | 80.0         | 73       | 73        | 20 - 146   |
| 2-Fluorobiphenyl | 72.0       | 71.0        | mg/L  | 1    | 80.0         | 90       | 89        | 25.3 - 146 |
| Terphenyl-d14    | 72.7       | 73.0        | mg/L  | 1    | 80.0         | 91       | 91        | 76 - 127   |

Standard (ICV-1) QC Batch: 790

| Param            | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene          |      | mg/L  | 0.100           | 0.0978           | 98                    | 85 - 115                | 2003-04-04    |
| Toluene          |      | mg/L  | 0.100           | 0.0970           | 97                    | 85 - 115                | 2003-04-04    |
| Ethylbenzene     |      | mg/L  | 0.100           | 0.0965           | 96                    | 85 - 115                | 2003-04-04    |
| Xylene (isomers) |      | mg/L  | 0.300           | 0.292            | 97                    | 85 - 115                | 2003-04-04    |

Standard (CCV-1) QC Batch: 790

| Param            | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene          |      | mg/L  | 0.100           | 0.100            | 100                   | 85 - 115                | 2003-04-04    |
| Toluene          |      | mg/L  | 0.100           | 0.0991           | 99                    | 85 - 115                | 2003-04-04    |
| Ethylbenzene     |      | mg/L  | 0.100           | 0.0992           | 99                    | 85 - 115                | 2003-04-04    |
| Xylene (isomers) |      | mg/L  | 0.300           | 0.300            | 100                   | 85 - 115                | 2003-04-04    |

Standard (CCV-2) QC Batch: 790

| Param            | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene          |      | mg/L  | 0.100           | 0.0936           | 94                    | 85 - 115                | 2003-04-04    |
| Toluene          |      | mg/L  | 0.100           | 0.0929           | 93                    | 85 - 115                | 2003-04-04    |
| Ethylbenzene     |      | mg/L  | 0.100           | 0.0924           | 92                    | 85 - 115                | 2003-04-04    |
| Xylene (isomers) |      | mg/L  | 0.300           | 0.280            | 93                    | 85 - 115                | 2003-04-04    |

Standard (CCV-1) QC Batch: 994

| Param                  | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Naphthalene            |      | mg/L  | 60.0            | 62.3             | 104                   | 80 - 120                | 2003-04-11    |
| Acenaphthylene         |      | mg/L  | 60.0            | 62.4             | 104                   | 80 - 120                | 2003-04-11    |
| Acenaphthene           |      | mg/L  | 60.0            | 60.9             | 102                   | 80 - 120                | 2003-04-11    |
| Fluorene               |      | mg/L  | 60.0            | 62.5             | 104                   | 80 - 120                | 2003-04-11    |
| Phenanthrene           |      | mg/L  | 60.0            | 61.9             | 103                   | 80 - 120                | 2003-04-11    |
| Anthracene             |      | mg/L  | 60.0            | 63.1             | 105                   | 80 - 120                | 2003-04-11    |
| Fluoranthene           |      | mg/L  | 60.0            | 64.5             | 108                   | 80 - 120                | 2003-04-11    |
| Pyrene                 |      | mg/L  | 60.0            | 59.8             | 100                   | 80 - 120                | 2003-04-11    |
| Benzo(a)anthracene     |      | mg/L  | 60.0            | 62.4             | 104                   | 80 - 120                | 2003-04-11    |
| Chrysene               |      | mg/L  | 60.0            | 61.4             | 102                   | 80 - 120                | 2003-04-11    |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0            | 64.8             | 108                   | 80 - 120                | 2003-04-11    |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0            | 63.4             | 106                   | 80 - 120                | 2003-04-11    |
| Benzo(a)pyrene         |      | mg/L  | 60.0            | 64.8             | 108                   | 80 - 120                | 2003-04-11    |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0            | 64.8             | 108                   | 80 - 120                | 2003-04-11    |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0            | 64.8             | 108                   | 80 - 120                | 2003-04-11    |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0            | 63.8             | 106                   | 80 - 120                | 2003-04-11    |

Report Date: April 16, 2003  
EQ-110

Work Order: 3040418  
John Hendrix

Page Number: 8 of 8  
Monument, New Mexico

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 56.3   | mg/L  | 1        | 60.0            | 94                  | 80 - 120          |
| 2-Fluorobiphenyl |      | 66.6   | mg/L  | 1        | 60.0            | 111                 | 80 - 120          |
| Terphenyl-d14    |      | 61.6   | mg/L  | 1        | 60.0            | 103                 | 80 - 120          |

Report Date: July 18, 2003  
EQ-110

Work Order: 3070703  
John Hendrix

Page Number: 1 of 3  
Monument, New Mexico

## Summary Report

Scott Burkey  
Shell Oil Products-Scott Burkey  
2109 Luna Road  
Suite 240  
Carrollton, TX 75006

Report Date: July 18, 2003

Work Order: 3070703

Incident #: 300110  
Project Location: Monument, New Mexico  
Project Name: John Hendrix  
Project Number: EQ-110

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 12138  | MW-1        | water  | 2003-07-02 | 13:30      | 2003-07-05    |
| 12139  | MW-3        | water  | 2003-07-02 | 14:00      | 2003-07-05    |
| 12140  | MW-4        | water  | 2003-07-02 | 14:30      | 2003-07-05    |
| 12141  | MW-5        | water  | 2003-07-02 | 15:00      | 2003-07-05    |

| Sample - Field Code | BTEX              |                   |                        |                            |
|---------------------|-------------------|-------------------|------------------------|----------------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene (isomers)<br>(mg/L) |
| 12138 - MW-1        | <0.00500          | <0.00500          | <0.00500               | <0.00500                   |
| 12139 - MW-3        | 0.00600           | 0.00660           | 0.00130                | 0.00190                    |
| 12140 - MW-4        | <0.00100          | 0.00100           | <0.00100               | 0.00140                    |
| 12141 - MW-5        | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |

### Sample: 12138 - MW-1

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

**Sample: 12139 - MW-3**

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

**Sample: 12140 - MW-4**

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

**Sample: 12141 - MW-5**

| Param              | Flag | Result    | Units | RL    |
|--------------------|------|-----------|-------|-------|
| Naphthalene        |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene     |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene       |      | <0.000200 | mg/L  | 0.200 |
| Fluorene           |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene       |      | <0.000200 | mg/L  | 0.200 |
| Anthracene         |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene       |      | <0.000200 | mg/L  | 0.200 |
| Pyrene             |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Chrysene           |      | <0.000200 | mg/L  | 0.200 |

continued ...

Report Date: July 18, 2003  
EQ-110

Work Order: 3070703  
John Hendrix

Page Number: 3 of 3  
Monument, New Mexico

*sample 12141 continued ...*

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

# TRACE ANALYSIS, INC.

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## Analytical and Quality Control Report

Scott Burkey  
Shell Oil Products-Scott Burkey  
2109 Luna Road  
Suite 240  
Carrollton, TX 75006

Report Date: July 18, 2003

Work Order: 3070703

Incident #: 300110  
Project Location: Monument, New Mexico  
Project Name: John Hendrix  
Project Number: EQ-110

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date<br>Taken | Time<br>Taken | Date<br>Received |
|--------|-------------|--------|---------------|---------------|------------------|
| 12138  | MW-1        | water  | 2003-07-02    | 13:30         | 2003-07-05       |
| 12139  | MW-3        | water  | 2003-07-02    | 14:00         | 2003-07-05       |
| 12140  | MW-4        | water  | 2003-07-02    | 14:30         | 2003-07-05       |
| 12141  | MW-5        | water  | 2003-07-02    | 15:00         | 2003-07-05       |

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 Report

Sample: 12138 - MW-1

Analysis: BTEX  
QC Batch: 2919  
Prep Batch: 2632

Analytical Method: S 8021B  
Date Analyzed: 2003-07-13  
Date Prepared: 2003-07-13

Prep Method: S 5030B  
Analyzed By: CG  
Prepared By: CG

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Toluene          |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Ethylbenzene     |      | <0.00500     | mg/L  | 5        | 0.00100 |
| Xylene (isomers) |      | <0.00500     | mg/L  | 5        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       | 1    | 0.586  | mg/L  | 5        | 0.100           | 117                 | 78.7 - 110         |
| 4-Bromofluorobenzene (4-BFB) |      | 0.526  | mg/L  | 5        | 0.100           | 105                 | 77.8 - 110         |

Sample: 12138 - MW-1

Analysis: PAH  
QC Batch: 2969  
Prep Batch: 2557

Analytical Method: S 8270C  
Date Analyzed: 2003-07-15  
Date Prepared: 2003-07-09

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  | 2    | 0.00189 | mg/L  | 0.001    | 80.0            | 2                   | 21 - 145           |
| 2-Fluorobiphenyl | 3    | 0.00325 | mg/L  | 0.001    | 80.0            | 4                   | 25 - 145           |

continued ...

<sup>1</sup>High surrogate recovery due to peak interference.

<sup>2</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>3</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

sample continued ...

| Surrogate     | Flag | Result  | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|---------|-------|----------|--------------|------------------|-----------------|
| Terphenyl-d14 | 4    | 0.00294 | mg/L  | 0.001    | 80.0         | 4                | 26 - 127        |

**Sample: 12139 - MW-3**

Analysis: BTEX  
QC Batch: 2809  
Prep Batch: 2540

Analytical Method: S 8021B  
Date Analyzed: 2003-07-08  
Date Prepared: 2003-07-08

Prep Method: S 5030B  
Analyzed By:  
Prepared By:

| Parameter        | Flag | RL Result | Units | Dilution | RL      |
|------------------|------|-----------|-------|----------|---------|
| Benzene          |      | 0.00600   | mg/L  | 1        | 0.00100 |
| Toluene          |      | 0.00660   | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | 0.00130   | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | 0.00190   | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0976 | mg/L  | 1        | 0.100        | 98               | 61 - 127        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0989 | mg/L  | 1        | 0.100        | 99               | 72.6 - 130      |

**Sample: 12139 - MW-3**

Analysis: PAH  
QC Batch: 2969  
Prep Batch: 2557

Analytical Method: S 8270C  
Date Analyzed: 2003-07-15  
Date Prepared: 2003-07-09

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL Result | Units | Dilution | RL    |
|------------------------|------|-----------|-------|----------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |

<sup>4</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

| Surrogate        | Flag | Result  | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|---------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  | 5    | 0.00266 | mg/L  | 0.001    | 80.0         | 3                | 21 - 145        |
| 2-Fluorobiphenyl | 6    | 0.00402 | mg/L  | 0.001    | 80.0         | 5                | 25 - 145        |
| Terphenyl-d14    | 7    | 0.00339 | mg/L  | 0.001    | 80.0         | 4                | 26 - 127        |

**Sample: 12140 - MW-4**

Analysis: BTEX  
QC Batch: 2809  
Prep Batch: 2540

Analytical Method: S 8021B  
Date Analyzed: 2003-07-08  
Date Prepared: 2003-07-08

Prep Method: S 5030B  
Analyzed By:  
Prepared By:

| Parameter        | Flag | RL Result | Units | Dilution | RL      |
|------------------|------|-----------|-------|----------|---------|
| Benzene          |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Toluene          |      | 0.00100   | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100  | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | 0.00140   | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0871 | mg/L  | 1        | 0.100        | 87               | 61 - 127        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.100  | mg/L  | 1        | 0.100        | 100              | 72.6 - 130      |

**Sample: 12140 - MW-4**

Analysis: PAH  
QC Batch: 2969  
Prep Batch: 2557

Analytical Method: S 8270C  
Date Analyzed: 2003-07-15  
Date Prepared: 2003-07-09

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL Result | Units | Dilution | RL    |
|------------------------|------|-----------|-------|----------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.001    | 0.200 |

*continued ...*

<sup>5</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>6</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>7</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

sample 12140 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|---------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  | 8    | 0.00140 | mg/L  | 0.001    | 80.0            | 2                   | 21 - 145           |
| 2-Fluorobiphenyl | 9    | 0.00265 | mg/L  | 0.001    | 80.0            | 3                   | 25 - 145           |
| Terphenyl-d14    | 10   | 0.00261 | mg/L  | 0.001    | 80.0            | 3                   | 26 - 127           |

Sample: 12141 - MW-5

|                  |                            |                      |
|------------------|----------------------------|----------------------|
| Analysis: BTEX   | Analytical Method: S 8021B | Prep Method: S 5030B |
| QC Batch: 2809   | Date Analyzed: 2003-07-08  | Analyzed By:         |
| Prep Batch: 2540 | Date Prepared: 2003-07-08  | Prepared By:         |

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.101  | mg/L  | 1        | 0.100           | 101                 | 61 - 127           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.106  | mg/L  | 1        | 0.100           | 106                 | 72.6 - 130         |

Sample: 12141 - MW-5

|                  |                            |                      |
|------------------|----------------------------|----------------------|
| Analysis: PAH    | Analytical Method: S 8270C | Prep Method: S 3510C |
| QC Batch: 2969   | Date Analyzed: 2003-07-15  | Analyzed By: RC      |
| Prep Batch: 2557 | Date Prepared: 2003-07-09  | Prepared By: JH      |

| Parameter      | Flag | RL<br>Result | Units | Dilution | RL    |
|----------------|------|--------------|-------|----------|-------|
| Naphthalene    |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene       |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |

continued ...

<sup>8</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>9</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>10</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

sample 12141 continued ...

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag          | Result  | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|---------------|---------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  | <sup>11</sup> | 0.00168 | mg/L  | 0.001    | 80.0            | 2                   | 21 - 145           |
| 2-Fluorobiphenyl | <sup>12</sup> | 0.00320 | mg/L  | 0.001    | 80.0            | 4                   | 25 - 145           |
| Terphenyl-d14    | <sup>13</sup> | 0.00332 | mg/L  | 0.001    | 80.0            | 4                   | 26 - 127           |

Method Blank (1) QC Batch: 2809

| Parameter        | Flag | Result   | Units | RL    |
|------------------|------|----------|-------|-------|
| Benzene          |      | <0.00100 | mg/L  | 0.001 |
| Toluene          |      | <0.00100 | mg/L  | 0.001 |
| Ethylbenzene     |      | <0.00100 | mg/L  | 0.001 |
| Xylene (isomers) |      | <0.00100 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.108  | mg/L  | 1        | 0.100           | 108                 | 61 - 127           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.108  | mg/L  | 1        | 0.100           | 108                 | 72.6 - 130         |

Method Blank (1) QC Batch: 2919

| Parameter        | Flag | Result   | Units | RL    |
|------------------|------|----------|-------|-------|
| Benzene          |      | <0.00100 | mg/L  | 0.001 |
| Toluene          |      | <0.00100 | mg/L  | 0.001 |
| Ethylbenzene     |      | <0.00100 | mg/L  | 0.001 |
| Xylene (isomers) |      | <0.00100 | mg/L  | 0.001 |

| Surrogate              | Flag          | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------|---------------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT) | <sup>14</sup> | 0.117  | mg/L  | 1        | 0.100           | 117                 | 78.7 - 110         |

continued ...

<sup>11</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>12</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>13</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>14</sup>High surrogate recovery due to prep. ICV, CCV show the method to be in control.

method blank continued ...

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| 4-Bromofluorobenzene (4-BFB) |      | 0.102  | mg/L  | 1        | 0.100        | 102              | 77.8 - 110      |

Method Blank (1) QC Batch: 2969

| Parameter              | Flag | Result    | Units | RL  |
|------------------------|------|-----------|-------|-----|
| Naphthalene            |      | <0.000200 | mg/L  | 0.2 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.2 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.2 |
| Fluorene               |      | <0.000200 | mg/L  | 0.2 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.2 |
| Anthracene             |      | <0.000200 | mg/L  | 0.2 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.2 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.2 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.2 |
| Chrysene               |      | <0.000200 | mg/L  | 0.2 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.2 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.2 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.2 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.2 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.2 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.2 |

| Surrogate        | Flag | Result  | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|---------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  | 15   | 0.00247 | mg/L  | 0.001    | 80.0         | 3                | 21 - 145        |
| 2-Fluorobiphenyl | 16   | 0.00434 | mg/L  | 0.001    | 80.0         | 5                | 25 - 145        |
| Terphenyl-d14    | 17   | 0.00347 | mg/L  | 0.001    | 80.0         | 4                | 26 - 127        |

Laboratory Control Spike (LCS-1) QC Batch: 2809

| Param            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene          | 0.102      | 0.102       | mg/L  | 1    | 0.100        | <0.000350     | 102  | 0   | 77.7 - 115 | 20        |
| Benzene          | 0.102      | 0.102       | mg/L  | 1    | 0.100        | <0.000350     | 102  | 0   | 77.7 - 115 | 20        |
| Toluene          | 0.103      | 0.102       | mg/L  | 1    | 0.100        | <0.000550     | 103  | 1   | 76.5 - 114 | 20        |
| Toluene          | 0.103      | 0.102       | mg/L  | 1    | 0.100        | <0.000550     | 103  | 1   | 76.5 - 114 | 20        |
| Ethylbenzene     | 0.106      | 0.105       | mg/L  | 1    | 0.100        | <0.000690     | 106  | 1   | 78.7 - 112 | 20        |
| Ethylbenzene     | 0.106      | 0.105       | mg/L  | 1    | 0.100        | <0.000690     | 106  | 1   | 78.7 - 112 | 20        |
| Xylene (isomers) | 0.313      | 0.310       | mg/L  | 1    | 0.300        | <0.000610     | 104  | 1   | 66.3 - 123 | 20        |
| Xylene (isomers) | 0.313      | 0.310       | mg/L  | 1    | 0.300        | <0.000610     | 104  | 1   | 66.3 - 123 | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

<sup>15</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>16</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>17</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 0.110      | 0.103       | mg/L  | 1    | 0.100        | 110      | 103       | 61 - 127   |
| Trifluorotoluene (TFT)       | 0.110      | 0.103       | mg/L  | 1    | 0.100        | 110      | 103       | 61 - 127   |
| 4-Bromofluorobenzene (4-BFB) | 0.114      | 0.108       | mg/L  | 1    | 0.100        | 114      | 108       | 72.6 - 130 |
| 4-Bromofluorobenzene (4-BFB) | 0.114      | 0.108       | mg/L  | 1    | 0.100        | 114      | 108       | 72.6 - 130 |

Laboratory Control Spike (LCS-1) QC Batch: 2919

| Param            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene          | 0.0917     | 0.0889      | mg/L  | 1    | 0.100        | <0.000410     | 92   | 3   | 80.5 - 113 | 20        |
| Toluene          | 0.0912     | 0.0892      | mg/L  | 1    | 0.100        | <0.000760     | 91   | 2   | 81.2 - 112 | 20        |
| Ethylbenzene     | 0.0921     | 0.0921      | mg/L  | 1    | 0.100        | <0.00120      | 92   | 0   | 82.2 - 112 | 20        |
| Xylene (isomers) | 0.277      | 0.274       | mg/L  | 1    | 0.300        | <0.00121      | 92   | 1   | 80.6 - 112 | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT)       | 0.110      | 0.108       | mg/L  | 1    | 0.100        | 110      | 108       | 78.7 - 110 |
| 4-Bromofluorobenzene (4-BFB) | 0.110      | 0.108       | mg/L  | 1    | 0.100        | 110      | 108       | 77.8 - 110 |

Laboratory Control Spike (LCS-1) QC Batch: 2969

| Param                  | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Naphthalene            | 44.7       | 44.0        | mg/L  | 1    | 80.0         | <0.0445       | 56   | 2   | 21.4 - 134 | 20        |
| Acenaphthylene         | 59.0       | 58.8        | mg/L  | 1    | 80.0         | <0.0383       | 74   | 0   | 42.1 - 135 | 20        |
| Acenaphthene           | 52.8       | 51.8        | mg/L  | 1    | 80.0         | <0.0421       | 66   | 2   | 41 - 133   | 20        |
| Fluorene               | 60.5       | 60.0        | mg/L  | 1    | 80.0         | <0.0655       | 76   | 1   | 49.3 - 133 | 20        |
| Phenanthrene           | 49.9       | 50.4        | mg/L  | 1    | 80.0         | <0.0383       | 62   | 1   | 54.4 - 135 | 20        |
| Anthracene             | 42.6       | 43.5        | mg/L  | 1    | 80.0         | <0.0468       | 53   | 2   | 42.2 - 130 | 20        |
| Fluoranthene           | 55.1       | 55.0        | mg/L  | 1    | 80.0         | <0.0550       | 69   | 0   | 44.4 - 146 | 20        |
| Pyrene                 | 77.6       | 81.4        | mg/L  | 1    | 80.0         | <0.0904       | 97   | 5   | 52.8 - 137 | 20        |
| Benzo(a)anthracene     | 54.8       | 57.3        | mg/L  | 1    | 80.0         | <0.0993       | 68   | 4   | 59 - 134   | 20        |
| Chrysene               | 61.2       | 62.5        | mg/L  | 1    | 80.0         | <0.121        | 76   | 2   | 49.6 - 107 | 20        |
| Benzo(b)fluoranthene   | 64.3       | 69.4        | mg/L  | 1    | 80.0         | <0.171        | 80   | 8   | 43.2 - 134 | 20        |
| Benzo(k)fluoranthene   | 86.8       | 81.6        | mg/L  | 1    | 80.0         | <0.0951       | 108  | 6   | 55.2 - 145 | 20        |
| Benzo(a)pyrene         | 77.6       | 79.3        | mg/L  | 1    | 80.0         | <0.135        | 97   | 2   | 63.9 - 138 | 20        |
| Indeno(1,2,3-cd)pyrene | 56.4       | 55.2        | mg/L  | 1    | 80.0         | <0.176        | 70   | 2   | 64.6 - 145 | 20        |
| Dibenzo(a,h)anthracene | 67.0       | 63.9        | mg/L  | 1    | 80.0         | <0.184        | 84   | 5   | 48.6 - 142 | 20        |
| Benzo(g,h,i)perylene   | 67.4       | 67.6        | mg/L  | 1    | 80.0         | <0.134        | 84   | 0   | 71.5 - 146 | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate                       | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Nitrobenzene-d5 <sup>1819</sup> | 3.26       | 3.25        | mg/L  | 1    | 80.0         | 4        | 4         | 20 - 146   |

continued ...

<sup>18</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>19</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

control spikes continued ...

| Surrogate        |      | LCS<br>Result | LCSD<br>Result | Units | Dil. | Spike<br>Amount | LCS<br>Rec. | LCSD<br>Rec. | Rec.<br>Limit |
|------------------|------|---------------|----------------|-------|------|-----------------|-------------|--------------|---------------|
| 2-Fluorobiphenyl | 2021 | 4.89          | 5.00           | mg/L  | 1    | 80.0            | 6           | 6            | 25.3 - 146    |
| Terphenyl-d14    | 2223 | 3.29          | 3.40           | mg/L  | 1    | 80.0            | 4           | 4            | 26 - 127      |

Standard (ICV-1) QC Batch: 2809

| 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 |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene          |      | mg/L  | 0.100                 | 0.104                  | 104                         | 85 - 115                      | 2003-07-08       |
| Toluene          |      | mg/L  | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2003-07-08       |
| Ethylbenzene     |      | mg/L  | 0.100                 | 0.108                  | 108                         | 85 - 115                      | 2003-07-08       |
| Xylene (isomers) |      | mg/L  | 0.300                 | 0.317                  | 106                         | 85 - 115                      | 2003-07-08       |

Standard (CCV-1) QC Batch: 2809

| 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 |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene          |      | mg/L  | 0.100                 | 0.102                  | 102                         | 85 - 115                      | 2003-07-08       |
| Toluene          |      | mg/L  | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2003-07-08       |
| Ethylbenzene     |      | mg/L  | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2003-07-08       |
| Xylene (isomers) |      | mg/L  | 0.300                 | 0.308                  | 103                         | 85 - 115                      | 2003-07-08       |

Standard (CCV-2) QC Batch: 2809

| 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 |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene          |      | mg/L  | 0.100                 | 0.103                  | 103                         | 85 - 115                      | 2003-07-08       |
| Toluene          |      | mg/L  | 0.100                 | 0.105                  | 105                         | 85 - 115                      | 2003-07-08       |
| Ethylbenzene     |      | mg/L  | 0.100                 | 0.107                  | 107                         | 85 - 115                      | 2003-07-08       |
| Xylene (isomers) |      | mg/L  | 0.300                 | 0.316                  | 105                         | 85 - 115                      | 2003-07-08       |

Standard (ICV-1) QC Batch: 2919

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L  | 0.100                 | 0.0921                 | 92                          | 85 - 115                      | 2003-07-13       |
| Toluene      |      | mg/L  | 0.100                 | 0.0923                 | 92                          | 85 - 115                      | 2003-07-13       |
| Ethylbenzene |      | mg/L  | 0.100                 | 0.0945                 | 94                          | 85 - 115                      | 2003-07-13       |

continued ...

<sup>20</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>21</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>22</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

<sup>23</sup>Surrogate percent recovery out of limits due to bad stock. New surrogate stock is now being used. CCV and LCS/LCSD spiked compounds show that the process is in control.

standard 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 |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Xylene (isomers) |      | mg/L  | 0.300                 | 0.279                  | 93                          | 85 - 115                      | 2003-07-13       |

Standard (CCV-1) QC Batch: 2919

| 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 |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene          |      | mg/L  | 0.100                 | 0.0923                 | 92                          | 85 - 115                      | 2003-07-13       |
| Toluene          |      | mg/L  | 0.100                 | 0.0927                 | 93                          | 85 - 115                      | 2003-07-13       |
| Ethylbenzene     |      | mg/L  | 0.100                 | 0.0949                 | 95                          | 85 - 115                      | 2003-07-13       |
| Xylene (isomers) |      | mg/L  | 0.300                 | 0.281                  | 94                          | 85 - 115                      | 2003-07-13       |

Standard (CCV-1) QC Batch: 2969

| 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  | 60.0                  | 57.1                   | 95                          | 80 - 120                      | 2003-07-15       |
| Acenaphthylene         |      | mg/L  | 60.0                  | 58.9                   | 98                          | 80 - 120                      | 2003-07-15       |
| Acenaphthene           |      | mg/L  | 60.0                  | 59.9                   | 100                         | 80 - 120                      | 2003-07-15       |
| Fluorene               |      | mg/L  | 60.0                  | 64.4                   | 107                         | 80 - 120                      | 2003-07-15       |
| Phenanthrene           |      | mg/L  | 60.0                  | 58.6                   | 98                          | 80 - 120                      | 2003-07-15       |
| Anthracene             |      | mg/L  | 60.0                  | 58.6                   | 98                          | 80 - 120                      | 2003-07-15       |
| Fluoranthene           |      | mg/L  | 60.0                  | 62.1                   | 104                         | 80 - 120                      | 2003-07-15       |
| Pyrene                 |      | mg/L  | 60.0                  | 57.3                   | 96                          | 80 - 120                      | 2003-07-15       |
| Benzo(a)anthracene     |      | mg/L  | 60.0                  | 65.2                   | 109                         | 80 - 120                      | 2003-07-15       |
| Chrysene               |      | mg/L  | 60.0                  | 53.8                   | 90                          | 80 - 120                      | 2003-07-15       |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0                  | 70.4                   | 117                         | 80 - 120                      | 2003-07-15       |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0                  | 61.9                   | 103                         | 80 - 120                      | 2003-07-15       |
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 69.0                   | 115                         | 80 - 120                      | 2003-07-15       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 55.4                   | 92                          | 80 - 120                      | 2003-07-15       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 66.6                   | 111                         | 80 - 120                      | 2003-07-15       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 66.7                   | 111                         | 80 - 120                      | 2003-07-15       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 50.4   | mg/L  | 1        | 60.0            | 84                  | 80 - 120          |
| 2-Fluorobiphenyl |      | 64.7   | mg/L  | 1        | 60.0            | 108                 | 80 - 120          |
| Terphenyl-d14    |      | 70.7   | mg/L  | 1        | 60.0            | 118                 | 80 - 120          |

Standard (CCV-2) QC Batch: 2969

| 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  | 60.0                  | 67.9                   | 113                         | 80 - 120                      | 2003-07-15       |
| Acenaphthylene |      | mg/L  | 60.0                  | 60.4                   | 101                         | 80 - 120                      | 2003-07-15       |
| Acenaphthene   |      | mg/L  | 60.0                  | 54.6                   | 91                          | 80 - 120                      | 2003-07-15       |

continued ...

standard 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 |
|------------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Fluorene               |      | mg/L  | 60.0                  | 66.8                   | 111                         | 80 - 120                      | 2003-07-15       |
| Phenanthrene           |      | mg/L  | 60.0                  | 63.7                   | 106                         | 80 - 120                      | 2003-07-15       |
| Anthracene             |      | mg/L  | 60.0                  | 60.5                   | 101                         | 80 - 120                      | 2003-07-15       |
| Fluoranthene           |      | mg/L  | 60.0                  | 62.3                   | 104                         | 80 - 120                      | 2003-07-15       |
| Pyrene                 |      | mg/L  | 60.0                  | 62.7                   | 104                         | 80 - 120                      | 2003-07-15       |
| Benzo(a)anthracene     |      | mg/L  | 60.0                  | 61.1                   | 102                         | 80 - 120                      | 2003-07-15       |
| Chrysene               |      | mg/L  | 60.0                  | 60.4                   | 101                         | 80 - 120                      | 2003-07-15       |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0                  | 69.2                   | 115                         | 80 - 120                      | 2003-07-15       |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0                  | 71.8                   | 120                         | 80 - 120                      | 2003-07-15       |
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 62.1                   | 104                         | 80 - 120                      | 2003-07-15       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 68.7                   | 114                         | 80 - 120                      | 2003-07-15       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 70.2                   | 117                         | 80 - 120                      | 2003-07-15       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 65.5                   | 109                         | 80 - 120                      | 2003-07-15       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 57.2   | mg/L  | 1        | 60.0            | 95                  | 80 - 120          |
| 2-Fluorobiphenyl |      | 67.9   | mg/L  | 1        | 60.0            | 113                 | 80 - 120          |
| Terphenyl-d14    |      | 62.8   | mg/L  | 1        | 60.0            | 105                 | 80 - 120          |

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Fax (806) 794-1298  
1 (800) 378-1296

# TraceAnalysis, Inc.

155 McCutcheon, Suite H  
El Paso, Texas 79932  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 3070703

### Company Name:

Environ Services Inc.

Phone #:

432-570-8726

Address: (Street, City, Zip)

306 West Wall, Suite 1312, Midland, TX 79701

Fax #:

432-684-7587

Contact Person:

Jeffery Kindley

Invoice to:

Scott Burkley of Shell Oil Products US

(If different from above)

Project #:

50-110 Incident # 300110

Project Name:

John Hendrix

Project Location:

Monument, NM

Sampler Signature:

Jeffery Kindley

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount       | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | DATE     | TIME |
|-------------------------|------------|--------------|---------------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|
|                         |            |              |                     | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE |
| 12138                   | MW-1       | 3            | 100% L <sub>1</sub> | ✓      |      |     |        | ✓                   |                  |                                |      | 07/02/03 | 1330 |
| 39                      | MW-3       | 3            | 1                   | ✓      |      |     |        | ✓                   |                  |                                |      | 07/02/03 | 1400 |
| 40                      | MW-4       | 3            | 1                   | ✓      |      |     |        | ✓                   |                  |                                |      | 07/02/03 | 1430 |
| 41                      | MW-5       | 3            | 1                   | ✓      |      |     |        | ✓                   |                  |                                |      | 07/02/03 | 1500 |

### 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 Volatiles                                   |   |
| TCLP Semi Volatiles                              |   |
| TCLP Pesticides                                  |   |
| RCI                                              |   |
| GC/MS Vol. 8260B/624                             |   |
| GC/MS Semi. Vol. 8270C/625                       |   |
| PCBs 8082/608                                    |   |
| Pesticides 8081A/608                             |   |
| BOD, TSS, pH                                     |   |
| Hold                                             |   |

Turn Around Time if different from standard

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

LAB USE ONLY

REMARKS:

Normal

Check If Special Reporting Limits Are Needed

Intact Y / N

Headspace Y / N

Temp

Log-in Review

Carrier #

1109

166-130-429-3

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

ORIGINAL COPY

12 samples

7/2/03

1109

166-130-429-3

Report Date: October 17, 2003  
EQ-110

Work Order: 3100806  
John Hendrix

Page Number: 1 of 3  
Monument, New Mexico

## Summary Report

Scott Burkey  
Shell Oil Products-Scott Burkey  
2109 Luna Road  
Suite 240  
Carrollton, TX 75006

Report Date: October 17, 2003

Work Order: 3100806

Incident #: 300110  
Project Location: Monument, New Mexico  
Project Name: John Hendrix  
Project Number: EQ-110

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 18988  | MW-1        | water  | 2003-10-06 | 00:00      | 2003-10-08    |
| 18989  | MW-3        | water  | 2003-10-06 | 00:00      | 2003-10-08    |
| 18990  | MW-4        | water  | 2003-10-06 | 00:00      | 2003-10-08    |
| 18991  | MW-5        | water  | 2003-10-06 | 00:00      | 2003-10-08    |

| Sample - Field Code | BTEX              |                   |                        |                            |
|---------------------|-------------------|-------------------|------------------------|----------------------------|
|                     | Benzene<br>(mg/L) | Toluene<br>(mg/L) | Ethylbenzene<br>(mg/L) | Xylene (isomers)<br>(mg/L) |
| 18988 - MW-1        | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |
| 18989 - MW-3        | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |
| 18990 - MW-4        | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |
| 18991 - MW-5        | <0.00100          | <0.00100          | <0.00100               | <0.00100                   |

### Sample: 18988 - MW-1

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

**Sample: 18989 - MW-3**

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

**Sample: 18990 - MW-4**

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Naphthalene            |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.200 |
| Fluorene               |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.200 |
| Anthracene             |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.200 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.200 |
| Chrysene               |      | <0.000200 | mg/L  | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

**Sample: 18991 - MW-5**

| Param              | Flag | Result    | Units | RL    |
|--------------------|------|-----------|-------|-------|
| Naphthalene        |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthylene     |      | <0.000200 | mg/L  | 0.200 |
| Acenaphthene       |      | <0.000200 | mg/L  | 0.200 |
| Fluorene           |      | <0.000200 | mg/L  | 0.200 |
| Phenanthrene       |      | <0.000200 | mg/L  | 0.200 |
| Anthracene         |      | <0.000200 | mg/L  | 0.200 |
| Fluoranthene       |      | <0.000200 | mg/L  | 0.200 |
| Pyrene             |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Chrysene           |      | <0.000200 | mg/L  | 0.200 |

continued ...

Report Date: October 17, 2003  
EQ-110

Work Order: 3100806  
John Hendrix

Page Number: 3 of 3  
Monument, New Mexico

*sample 18991 continued ...*

| Param                  | Flag | Result    | Units | RL    |
|------------------------|------|-----------|-------|-------|
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.200 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.200 |

# TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Scott Burkey  
Shell Oil Products-Scott Burkey  
2109 Luna Road  
Suite 240  
Carrollton, TX 75006

Report Date: October 17, 2003

Work Order: 3100806

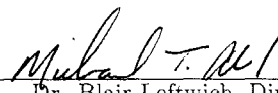
Incident #: 300110  
Project Location: Monument, New Mexico  
Project Name: John Hendrix  
Project Number: EQ-110

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 18988  | MW-1        | water  | 2003-10-06 | 00:00      | 2003-10-08    |
| 18989  | MW-3        | water  | 2003-10-06 | 00:00      | 2003-10-08    |
| 18990  | MW-4        | water  | 2003-10-06 | 00:00      | 2003-10-08    |
| 18991  | MW-5        | water  | 2003-10-06 | 00:00      | 2003-10-08    |

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 TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

## Analytical Report

### Sample: 18988 - MW-1

Analysis: BTEX  
QC Batch: 4945  
Prep Batch: 4422

Analytical Method: S 8021B  
Date Analyzed: 2003-10-08  
Date Prepared: 2003-10-08

Prep Method: S 5030B  
Analyzed By: BS  
Prepared By: BS

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0844 | mg/L  | 1        | 0.100           | 84                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0697 | mg/L  | 1        | 0.100           | 70                  | 70 - 130           |

### Sample: 18988 - MW-1

Analysis: PAH  
QC Batch: 5121  
Prep Batch: 4501

Analytical Method: S 8270C  
Date Analyzed: 2003-10-14  
Date Prepared: 2003-10-12

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0832 | mg/L  | 0.001    | 80.0            | 104                 | 35 - 114           |
| 2-Fluorobiphenyl |      | 0.0646 | mg/L  | 0.001    | 80.0            | 81                  | 43 - 116           |
| Terphenyl-d14    |      | 0.0396 | mg/L  | 0.001    | 80.0            | 49                  | 33 - 141           |

### Sample: 18989 - MW-3

Report Date: October 17, 2003  
EQ-110

Work Order: 3100806  
John Hendrix

Page Number: 3 of 9  
Monument, New Mexico

Analysis: BTEX  
QC Batch: 4945  
Prep Batch: 4422

Analytical Method: S 8021B  
Date Analyzed: 2003-10-08  
Date Prepared: 2003-10-08

Prep Method: S 5030B  
Analyzed By: BS  
Prepared By: BS

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0845 | mg/L  | 1        | 0.100           | 84                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0742 | mg/L  | 1        | 0.100           | 74                  | 70 - 130           |

Sample: 18989 - MW-3

Analysis: PAH  
QC Batch: 5121  
Prep Batch: 4501

Analytical Method: S 8270C  
Date Analyzed: 2003-10-14  
Date Prepared: 2003-10-12

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0712 | mg/L  | 0.001    | 80.0            | 89                  | 35 - 114           |
| 2-Fluorobiphenyl |      | 0.0560 | mg/L  | 0.001    | 80.0            | 70                  | 43 - 116           |
| Terphenyl-d14    |      | 0.0423 | mg/L  | 0.001    | 80.0            | 53                  | 33 - 141           |

Sample: 18990 - MW-4

Analysis: BTEX  
QC Batch: 4945  
Prep Batch: 4422

Analytical Method: S 8021B  
Date Analyzed: 2003-10-08  
Date Prepared: 2003-10-08

Prep Method: S 5030B  
Analyzed By: BS  
Prepared By: BS

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Benzene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0862 | mg/L  | 1        | 0.100           | 86                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0718 | mg/L  | 1        | 0.100           | 72                  | 70 - 130           |

Sample: 18990 - MW-4

Analysis: PAH  
QC Batch: 5121  
Prep Batch: 4501

Analytical Method: S 8270C  
Date Analyzed: 2003-10-14  
Date Prepared: 2003-10-12

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0858 | mg/L  | 0.001    | 80.0            | 107                 | 35 - 114           |
| 2-Fluorobiphenyl |      | 0.0662 | mg/L  | 0.001    | 80.0            | 83                  | 43 - 116           |
| Terphenyl-d14    |      | 0.0501 | mg/L  | 0.001    | 80.0            | 63                  | 33 - 141           |

Sample: 18991 - MW-5

Analysis: BTEX  
QC Batch: 4945  
Prep Batch: 4422

Analytical Method: S 8021B  
Date Analyzed: 2003-10-08  
Date Prepared: 2003-10-08

Prep Method: S 5030B  
Analyzed By: BS  
Prepared By: BS

| Parameter | Flag | RL<br>Result | Units | Dilution | RL      |
|-----------|------|--------------|-------|----------|---------|
| Benzene   |      | <0.00100     | mg/L  | 1        | 0.00100 |

continued ...

sample 18991 continued ...

| Parameter        | Flag | RL<br>Result | Units | Dilution | RL      |
|------------------|------|--------------|-------|----------|---------|
| Toluene          |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Ethylbenzene     |      | <0.00100     | mg/L  | 1        | 0.00100 |
| Xylene (isomers) |      | <0.00100     | mg/L  | 1        | 0.00100 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TFT)       |      | 0.0845 | mg/L  | 1        | 0.100           | 84                  | 70 - 130           |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0732 | mg/L  | 1        | 0.100           | 73                  | 70 - 130           |

Sample: 18991 - MW-5

Analysis: PAH  
QC Batch: 5121  
Prep Batch: 4501

Analytical Method: S 8270C  
Date Analyzed: 2003-10-14  
Date Prepared: 2003-10-12

Prep Method: S 3510C  
Analyzed By: RC  
Prepared By: JH

| Parameter              | Flag | RL<br>Result | Units | Dilution | RL    |
|------------------------|------|--------------|-------|----------|-------|
| Naphthalene            |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthylene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Acenaphthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluorene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Phenanthrene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Anthracene             |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Fluoranthene           |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Pyrene                 |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)anthracene     |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Chrysene               |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(b)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(k)fluoranthene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(a)pyrene         |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Dibenzo(a,h)anthracene |      | <0.000200    | mg/L  | 0.001    | 0.200 |
| Benzo(g,h,i)perylene   |      | <0.000200    | mg/L  | 0.001    | 0.200 |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------|------|--------|-------|----------|-----------------|---------------------|--------------------|
| Nitrobenzene-d5  |      | 0.0708 | mg/L  | 0.001    | 80.0            | 88                  | 35 - 114           |
| 2-Fluorobiphenyl |      | 0.0558 | mg/L  | 0.001    | 80.0            | 70                  | 43 - 116           |
| Terphenyl-d14    |      | 0.0423 | mg/L  | 0.001    | 80.0            | 53                  | 33 - 141           |

Method Blank (1) QC Batch: 4945

| Parameter        | Flag | Result   | Units | RL    |
|------------------|------|----------|-------|-------|
| Benzene          |      | <0.00100 | mg/L  | 0.001 |
| Toluene          |      | <0.00100 | mg/L  | 0.001 |
| Ethylbenzene     |      | <0.00100 | mg/L  | 0.001 |
| Xylene (isomers) |      | <0.00100 | mg/L  | 0.001 |

| Surrogate                    | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Trifluorotoluene (TFT)       |      | 0.0843 | mg/L  | 1        | 0.100        | 84               | 70 - 130        |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0758 | mg/L  | 1        | 0.100        | 76               | 70 - 130        |

Method Blank (1) QC Batch: 5121

| Parameter              | Flag | Result    | Units | RL  |
|------------------------|------|-----------|-------|-----|
| Naphthalene            |      | <0.000200 | mg/L  | 0.2 |
| Acenaphthylene         |      | <0.000200 | mg/L  | 0.2 |
| Acenaphthene           |      | <0.000200 | mg/L  | 0.2 |
| Fluorene               |      | <0.000200 | mg/L  | 0.2 |
| Phenanthrene           |      | <0.000200 | mg/L  | 0.2 |
| Anthracene             |      | <0.000200 | mg/L  | 0.2 |
| Fluoranthene           |      | <0.000200 | mg/L  | 0.2 |
| Pyrene                 |      | <0.000200 | mg/L  | 0.2 |
| Benzo(a)anthracene     |      | <0.000200 | mg/L  | 0.2 |
| Chrysene               |      | <0.000200 | mg/L  | 0.2 |
| Benzo(b)fluoranthene   |      | <0.000200 | mg/L  | 0.2 |
| Benzo(k)fluoranthene   |      | <0.000200 | mg/L  | 0.2 |
| Benzo(a)pyrene         |      | <0.000200 | mg/L  | 0.2 |
| Indeno(1,2,3-cd)pyrene |      | <0.000200 | mg/L  | 0.2 |
| Dibenzo(a,h)anthracene |      | <0.000200 | mg/L  | 0.2 |
| Benzo(g,h,i)perylene   |      | <0.000200 | mg/L  | 0.2 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 0.0756 | mg/L  | 0.001    | 80.0         | 94               | 35 - 114        |
| 2-Fluorobiphenyl |      | 0.0585 | mg/L  | 0.001    | 80.0         | 73               | 43 - 116        |
| Terphenyl-d14    |      | 0.0685 | mg/L  | 0.001    | 80.0         | 86               | 33 - 141        |

Laboratory Control Spike (LCS-1) QC Batch: 4945

| Param            | LCS Result | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------|------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Benzene          | 0.0965     | 0.0941      | mg/L  | 1    | 0.100        | <0.000650     | 96   | 2   | 65.9 - 129 | 20        |
| Benzene          | 0.0965     | 0.0941      | mg/L  | 1    | 0.100        | <0.000650     | 96   | 2   | 65.9 - 129 | 20        |
| Toluene          | 0.0958     | 0.0928      | mg/L  | 1    | 0.100        | <0.00101      | 96   | 3   | 74.1 - 122 | 20        |
| Toluene          | 0.0958     | 0.0928      | mg/L  | 1    | 0.100        | <0.00101      | 96   | 3   | 74.1 - 122 | 20        |
| Ethylbenzene     | 0.0956     | 0.0936      | mg/L  | 1    | 0.100        | <0.000840     | 96   | 2   | 68 - 125   | 20        |
| Ethylbenzene     | 0.0956     | 0.0936      | mg/L  | 1    | 0.100        | <0.000840     | 96   | 2   | 68 - 125   | 20        |
| Xylene (isomers) | 0.288      | 0.282       | mg/L  | 1    | 0.300        | <0.000737     | 96   | 2   | 67 - 122   | 20        |
| Xylene (isomers) | 0.288      | 0.282       | mg/L  | 1    | 0.300        | <0.000737     | 96   | 2   | 67 - 122   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate              | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Trifluorotoluene (TFT) | 0.0938     | 0.0952      | mg/L  | 1    | 0.100        | 94       | 95        | 52.9 - 135 |
| Trifluorotoluene (TFT) | 0.0938     | 0.0952      | mg/L  | 1    | 0.100        | 94       | 95        | 52.9 - 135 |

continued ...

control spikes continued ...

| Surrogate                    | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| 4-Bromofluorobenzene (4-BFB) | 0.0968     | 0.0952      | mg/L  | 1    | 0.100        | 97       | 95        | 45.5 - 147 |
| 4-Bromofluorobenzene (4-BFB) | 0.0968     | 0.0952      | mg/L  | 1    | 0.100        | 97       | 95        | 45.5 - 147 |

Laboratory Control Spike (LCS-1) QC Batch: 5121

| Param                  | LCS Result        | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | RPD | Rec. Limit | RPD Limit |
|------------------------|-------------------|-------------|-------|------|--------------|---------------|------|-----|------------|-----------|
| Naphthalene            | 66.4              | 66.6        | mg/L  | 1    | 80.0         | <0.0445       | 83   | 0   | 16 - 96    | 20        |
| Acenaphthylene         | 79.3              | 78.4        | mg/L  | 1    | 80.0         | <0.0383       | 99   | 1   | 20 - 110   | 20        |
| Acenaphthene           | 71.4              | 71.5        | mg/L  | 1    | 80.0         | <0.0421       | 89   | 0   | 18 - 108   | 20        |
| Fluorene               | 73.8              | 72.9        | mg/L  | 1    | 80.0         | <0.0655       | 92   | 1   | 22 - 102   | 20        |
| Phenanthrene           | 67.3              | 67.2        | mg/L  | 1    | 80.0         | <0.0383       | 84   | 0   | 25 - 103   | 20        |
| Anthracene             | 71.5              | 72.3        | mg/L  | 1    | 80.0         | <0.0468       | 89   | 1   | 22 - 110   | 20        |
| Fluoranthene           | 72.8              | 72.0        | mg/L  | 1    | 80.0         | <0.0550       | 91   | 1   | 21 - 110   | 20        |
| Pyrene                 | 64.8              | 67.7        | mg/L  | 1    | 80.0         | <0.0904       | 81   | 4   | 22 - 100   | 20        |
| Benzo(a)anthracene     | 73.2              | 73.6        | mg/L  | 1    | 80.0         | <0.0993       | 92   | 0   | 30 - 99    | 20        |
| Chrysene               | 81.5              | 81.2        | mg/L  | 1    | 80.0         | <0.121        | 102  | 0   | 27 - 108   | 20        |
| Benzo(b)fluoranthene   | 74.8              | 74.5        | mg/L  | 1    | 80.0         | <0.171        | 94   | 0   | 19 - 102   | 20        |
| Benzo(k)fluoranthene   | <sup>1</sup> 83.4 | 79.4        | mg/L  | 1    | 80.0         | <0.0951       | 104  | 5   | 35 - 103   | 20        |
| Benzo(a)pyrene         | 78.4              | 76.1        | mg/L  | 1    | 80.0         | <0.135        | 98   | 3   | 24 - 105   | 20        |
| Indeno(1,2,3-cd)pyrene | 58.5              | 65.6        | mg/L  | 1    | 80.0         | <0.176        | 73   | 11  | 22 - 108   | 20        |
| Dibenzo(a,h)anthracene | <sup>2</sup> 61.7 | 67.8        | mg/L  | 1    | 80.0         | <0.184        | 77   | 9   | 23 - 77    | 20        |
| Benzo(g,h,i)perylene   | 54.8              | 64.3        | mg/L  | 1    | 80.0         | <0.134        | 68   | 16  | 19 - 119   | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|------------------|------------|-------------|-------|------|--------------|----------|-----------|------------|
| Nitrobenzene-d5  | 79.2       | 81.2        | mg/L  | 1    | 80.0         | 99       | 102       | 35 - 114   |
| 2-Fluorobiphenyl | 63.2       | 63.1        | mg/L  | 1    | 80.0         | 79       | 79        | 43 - 116   |
| Terphenyl-d14    | 63.6       | 67.1        | mg/L  | 1    | 80.0         | 80       | 84        | 33 - 141   |

Standard (CCV-1) QC Batch: 4945

| Param            | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|------------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Benzene          |      | mg/L  | 0.100           | 0.0972           | 97                    | 85 - 115                | 2003-10-08    |
| Toluene          |      | mg/L  | 0.100           | 0.0948           | 95                    | 85 - 115                | 2003-10-08    |
| Ethylbenzene     |      | mg/L  | 0.100           | 0.0949           | 95                    | 85 - 115                | 2003-10-08    |
| Xylene (isomers) |      | mg/L  | 0.300           | 0.285            | 95                    | 85 - 115                | 2003-10-08    |

Standard (CCV-2) QC Batch: 4945

<sup>1</sup>The average of the spike compounds shows that the process is in control.

<sup>2</sup>The average of the spike compounds shows that the process is in control.

| 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 |
|------------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene          |      | mg/L  | 0.100                 | 0.0927                 | 93                          | 85 - 115                      | 2003-10-08       |
| Toluene          |      | mg/L  | 0.100                 | 0.0915                 | 92                          | 85 - 115                      | 2003-10-08       |
| Ethylbenzene     |      | mg/L  | 0.100                 | 0.0915                 | 92                          | 85 - 115                      | 2003-10-08       |
| Xylene (isomers) |      | mg/L  | 0.300                 | 0.276                  | 92                          | 85 - 115                      | 2003-10-08       |

Standard (CCV-1) QC Batch: 5121

| 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  | 60.0                  | 62.0                   | 103                         | 80 - 120                      | 2003-10-14       |
| Acenaphthylene         |      | mg/L  | 60.0                  | 70.2                   | 117                         | 80 - 120                      | 2003-10-14       |
| Acenaphthene           |      | mg/L  | 60.0                  | 70.6                   | 118                         | 80 - 120                      | 2003-10-14       |
| Fluorene               |      | mg/L  | 60.0                  | 65.9                   | 110                         | 80 - 120                      | 2003-10-14       |
| Phenanthrene           |      | mg/L  | 60.0                  | 68.7                   | 114                         | 80 - 120                      | 2003-10-14       |
| Anthracene             |      | mg/L  | 60.0                  | 69.9                   | 116                         | 80 - 120                      | 2003-10-14       |
| Fluoranthene           |      | mg/L  | 60.0                  | 70.4                   | 117                         | 80 - 120                      | 2003-10-14       |
| Pyrene                 |      | mg/L  | 60.0                  | 64.1                   | 107                         | 80 - 120                      | 2003-10-14       |
| Benzo(a)anthracene     |      | mg/L  | 60.0                  | 69.1                   | 115                         | 80 - 120                      | 2003-10-14       |
| Chrysene               |      | mg/L  | 60.0                  | 68.4                   | 114                         | 80 - 120                      | 2003-10-14       |
| Benzo(b)fluoranthene   |      | mg/L  | 60.0                  | 58.7                   | 98                          | 80 - 120                      | 2003-10-14       |
| Benzo(k)fluoranthene   |      | mg/L  | 60.0                  | 62.5                   | 104                         | 80 - 120                      | 2003-10-14       |
| Benzo(a)pyrene         |      | mg/L  | 60.0                  | 71.9                   | 120                         | 80 - 120                      | 2003-10-14       |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60.0                  | 57.8                   | 96                          | 80 - 120                      | 2003-10-14       |
| Dibenzo(a,h)anthracene |      | mg/L  | 60.0                  | 59.5                   | 99                          | 80 - 120                      | 2003-10-14       |
| Benzo(g,h,i)perylene   |      | mg/L  | 60.0                  | 57.5                   | 96                          | 80 - 120                      | 2003-10-14       |

| Surrogate        | Flag | Result | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limit |
|------------------|------|--------|-------|----------|-----------------|---------------------|-------------------|
| Nitrobenzene-d5  |      | 68.3   | mg/L  | 1        | 60.0            | 114                 | 80 - 120          |
| 2-Fluorobiphenyl |      | 63.6   | mg/L  | 1        | 60.0            | 106                 | 80 - 120          |
| Terphenyl-d14    |      | 59.5   | mg/L  | 1        | 60.0            | 99                  | 80 - 120          |

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| <p><b>TraceAnalysis, Inc.</b><br/>6701 Aberdeen Avenue, Ste. 9<br/>Lubbock, Texas 79424<br/>Tel (806) 794-1296<br/>Fax (806) 794-1298<br/>1 (800) 378-1296</p>                                                                                                                    |                  | <p>155 McCutcheon, Suite H<br/>El Paso, Texas 79532<br/>Tel (915) 585-3443<br/>Fax (915) 585-4944<br/>1 (888) 585-3443</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                  | <p><b>CHAIN-OF-CUSTODY AND ANALYSIS REQUEST</b><br/>LAB Order ID # <u>3100806</u></p> |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|-----------------|------------------|---------------------|--------------------------------------------------|----------------|----------------------|-----------------|---------------------------------------------|---------------------|--------------------------|---------------|----------------------|------------|---------------------------------------------|--|----------|-----|--|--|----------|--------|--|--|----------|-----|--|--|----------|------------------|--|--|----------|--------------------------------|--|--|----------|------|--|--|----------|-----|--|--|----------|------|--|--|----------|
| <p><b>Company Name:</b> <u>Emerson Services Inc</u><br/><b>Address:</b> (Street, City, Zip) <u>306 West Wyo Suite 1312, Midland, TX 79701</u><br/><b>Contact Person:</b> <u>Jeffrey Kindley</u><br/><b>Phone #:</b> <u>432-570-8726</u><br/><b>Fax #:</b> <u>432-684-7587</u></p> |                  | <p><b>ANALYSIS REQUEST</b><br/>(Circle or Specify Method No.)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>MTBE 8021B/602</td> <td>TPH 418 1/TX1005</td> <td>PAH 8270C</td> <td>Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7</td> <td>TCMP Volatiles</td> <td>TCMP Semi Volatiles</td> <td>TCMP Pesticides</td> <td>ACI</td> <td>GC/MS Vol 8260B/624</td> <td>GC/MS Semi Vol 8270C/625</td> <td>PCBs 8082/608</td> <td>Pesticides 8081A/608</td> <td>BOD TSS pH</td> <td>Turn Around Time if different from standard</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>                                                                                                                                                                                                                 |                                                  |                                                                                       |                     | MTBE 8021B/602  | TPH 418 1/TX1005 | PAH 8270C           | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7 | TCMP Volatiles | TCMP Semi Volatiles  | TCMP Pesticides | ACI                                         | GC/MS Vol 8260B/624 | GC/MS Semi Vol 8270C/625 | PCBs 8082/608 | Pesticides 8081A/608 | BOD TSS pH | Turn Around Time if different from standard |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| MTBE 8021B/602                                                                                                                                                                                                                                                                    | TPH 418 1/TX1005 | PAH 8270C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 7 | TCMP Volatiles                                                                        | TCMP Semi Volatiles | TCMP Pesticides | ACI              | GC/MS Vol 8260B/624 | GC/MS Semi Vol 8270C/625                         | PCBs 8082/608  | Pesticides 8081A/608 | BOD TSS pH      | Turn Around Time if different from standard |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
|                                                                                                                                                                                                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><b>Project #:</b> <u>EQ-110</u><br/><b>Project Location:</b> <u>Monument, Lea Co, NM</u></p>                                                                                                                                                                                   |                  | <p><b>Project Name:</b> <u>Shell Oil Products US</u><br/><b>Sampler Signature:</b> <u>John Hendrix</u><br/><b>Sample Signature:</b> <u>Jeffrey Kindley</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><b>Invoice to:</b> (If different from above) <u>Scott Burkay</u><br/><b>Project #:</b> <u>Incident # 300110</u></p>                                                                                                                                                            |                  | <p><b>MATRIX PRESERVATIVE METHOD</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>MATRIX</th> <th>PRESERVATIVE</th> <th>METHOD</th> <th>SAMPLING</th> </tr> <tr> <th></th> <th></th> <th></th> <th>DATE</th> </tr> <tr> <td>WATER</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>SOIL</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>AIR</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>SLUDGE</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>HCl</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>HNO<sub>3</sub></td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>H<sub>2</sub>SO<sub>4</sub></td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>NaOH</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>ICE</td> <td></td> <td></td> <td>10/06/03</td> </tr> <tr> <td>NONE</td> <td></td> <td></td> <td>10/06/03</td> </tr> </table> |                                                  |                                                                                       |                     | MATRIX          | PRESERVATIVE     | METHOD              | SAMPLING                                         |                |                      |                 | DATE                                        | WATER               |                          |               | 10/06/03             | SOIL       |                                             |  | 10/06/03 | AIR |  |  | 10/06/03 | SLUDGE |  |  | 10/06/03 | HCl |  |  | 10/06/03 | HNO <sub>3</sub> |  |  | 10/06/03 | H <sub>2</sub> SO <sub>4</sub> |  |  | 10/06/03 | NaOH |  |  | 10/06/03 | ICE |  |  | 10/06/03 | NONE |  |  | 10/06/03 |
| MATRIX                                                                                                                                                                                                                                                                            | PRESERVATIVE     | METHOD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SAMPLING                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
|                                                                                                                                                                                                                                                                                   |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DATE                                             |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| WATER                                                                                                                                                                                                                                                                             |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| SOIL                                                                                                                                                                                                                                                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| AIR                                                                                                                                                                                                                                                                               |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| SLUDGE                                                                                                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| HCl                                                                                                                                                                                                                                                                               |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| HNO <sub>3</sub>                                                                                                                                                                                                                                                                  |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| H <sub>2</sub> SO <sub>4</sub>                                                                                                                                                                                                                                                    |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| NaOH                                                                                                                                                                                                                                                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| ICE                                                                                                                                                                                                                                                                               |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| NONE                                                                                                                                                                                                                                                                              |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/06/03                                         |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><b>LAB #</b><br/>(LAB USE ONLY)</p>                                                                                                                                                                                                                                            |                  | <p><b>FIELD CODE</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><u>18988 MW-1</u></p>                                                                                                                                                                                                                                                          |                  | <p><u>3</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><u>89 MW-3</u></p>                                                                                                                                                                                                                                                             |                  | <p><u>3</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><u>90 MW-4</u></p>                                                                                                                                                                                                                                                             |                  | <p><u>3</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |
| <p><u>91 MW-5</u></p>                                                                                                                                                                                                                                                             |                  | <p><u>3</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                       |                     |                 |                  |                     |                                                  |                |                      |                 |                                             |                     |                          |               |                      |            |                                             |  |          |     |  |  |          |        |  |  |          |     |  |  |          |                  |  |  |          |                                |  |  |          |      |  |  |          |     |  |  |          |      |  |  |          |

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. ORIGINAL COPY

**LAB USE ONLY**

Intact ☒ Y ☒ N  
 Headspace ☒ Y ☒ N  
 Temp. 3  
 Log-In Review 11/1

**REMARKS:**

Normal Turnaround

☐ Check if Special Reporting Limits Are Needed

Carrier # Jeffrey Kindley

**Relinquished by:** Jeffrey Kindley Date: 10/17/03 Time: 9:00

**Received by:** John Hendrix Date: 10/17/03 Time: 09:00

**Relinquished by:** John Hendrix Date: 10/17/03 Time: 17:30

**Received by:** John Hendrix Date: 10/17/03 Time: 17:30

306 West Wyo P 524060





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MAR 10 2003

Confidential

Mr. William Olsen

New Mexico Oil Conservation Division

2040 S. Pacheco

Santa Fe, New Mexico 87505

ENVIRONMENTAL BUREAU

OIL CONSERVATION DIVISION

Shell Oil Products US

HSE Science & Engineering

7750 N. MacArthur Blvd.

Suite 120, PMB 319

Irving, Texas 75063

Tel (972) 247-1700

Fax (972) 247-7075

Email seburkey@shellopus.com

March 5, 2003

**Re: Historic Shell Pipeline John Hendrix Release Site  
Section 18, Township 20 South, Range 37 East  
Monument, Lea County, New Mexico**

Dear Mr. Olsen:

Shell Oil Products US (Shell) (formerly Equiva Services LLC) has completed the 2002 Annual Groundwater Monitoring Report for the above referenced site. Groundwater samples were collected by Enercon Services, Inc. (Enercon) from the five onsite monitor wells (MW-1 to MW-5) for three consecutive quarters (May 13; August 24; and October 9, 2002). Groundwater analytical results for collected samples indicated Benzene, Toluene, Ethyl benzene, and Xylenes (BTEX) and Polycyclic Aromatic Hydrocarbon (PAH) concentrations were below the New Mexico Oil Conservation Division (NMOCD) groundwater standards during the 2002 Annual Period. In addition, no phase-separated hydrocarbons (PSH) were measured in the five onsite monitor wells in 2002.

On January 9, 2003, Enercon personnel were onsite to perform the first quarterly groundwater sampling event for the 2003 Annual Monitoring Period. At that time, approximately 0.06 feet of PSH was measured in monitor well MW-2 (see attached Figure 1). The remaining onsite monitor wells exhibited BTEX and PAH concentrations below detection limits (see attached Table 1).

For the reasons stated below, it is Shell's contention that the PSH, which is located in monitor well MW-2, is from a new source and not related to the initial Shell release source:

- 1) The initial Shell source release was excavated and approximately 58,000 cubic yards of hydrocarbon impacted soil were removed from the area between July 2001 and January 2002. Analytical results for soil samples collected from the excavated pit indicated that all hydrocarbon impacted soil was removed from the site, with the exception of a minor amount (176 mg/kg TPH) located along the south wall of the excavation (See Enercon report dated March 22, 2002). In addition, eight borings (C-1 to C-8) were advanced along the northeast, east, southeast and south sides of the excavation to determine if all hydrocarbon impacted soil was removed during the excavation activities. The results indicated that a minor amount (178 mg/kg TPH) of hydrocarbon impacted soils remained along the southeast corner of the site in soil boring C-4 (the current location of monitor well MW-3). Although this soil exceeded the NMOCD guidelines of 100 mg/kg TPH, these soils are located approximately 125 to 200 feet southwest and downgradient of monitor well MW-2 and are not considered a viable source of the PSH in monitor well MW-2.

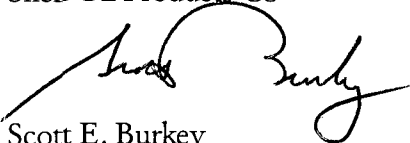
- 2) Five monitor wells (MW-1 to MW-5) and one soil boring (SB-1) were installed across the site in May 2002. Of the soil samples collected, the sample collected from MW-1 at 8 to 10 feet below ground surface (bgs) and the sample collected from MW-3 at 28 to 30 feet bgs (at the groundwater/soil interface) were above the NMOCD standards of 100 mg/kg TPH with results of 1,498 mg/kg TPH and 152.3 mg/kg TPH, respectively (see Enercon report dated June 2002). Groundwater samples collected from the five onsite monitor wells for the remaining three consecutive quarters exhibited BTEX and PAH concentrations which were below the NMOCD groundwater standards (See attached Enercon 2002 Annual Report). PSH was not noted in any of the monitor wells during the three consecutive quarters.
- 3) The First Quarter 2003 Sampling event performed on January 9, 2003 (see Table 1), indicated that the BTEX and PAH analytical results (see attached laboratory results) were below detection limits in the remaining four onsite monitor wells (MW-1, MW-3, MW-4 and MW-5). This indicates that the soil and groundwater from the initial Shell source release area have been remediated.
- 4) The groundwater gradient at the site has remained consistently to the south for the four quarters (see Figure 2). This indicates the PSH in monitor well MW-2 likely originated from a source located to the north (upgradient) of the site. This also suggests the PSH is not related to the remediated Shell release located approximately 175 feet to the west/northwest (crossgradient) of monitor well MW-2.
- 5) The former Shell pipeline was removed from the ground approximately 8 years ago and has not been replaced. As such, a new release from a Shell Oil Products line is not possible.
- 6) An active Duke Energy (former GPM) 24-inch gas line is located approximately 15 feet to the west (cross to upgradient) of monitor well MW-2. In addition, a shut-in John Hendrix oil well is located approximately 200 feet to the north (upgradient) of monitor well MW-2. Due to the proximity and upgradient status of these two structures, there is possibility that a release from either of these two sources could impact monitor well MW-2 and thus could account for the measurable PSH in MW-2.

BRITT B-18  
#5

Based on the reasons stated above, Shell Oil Products US respectfully requests that the NMOCD consider relinquishing Shell of the responsibility of the PSH recovery from monitor well MW-2 and grant closure of the site.

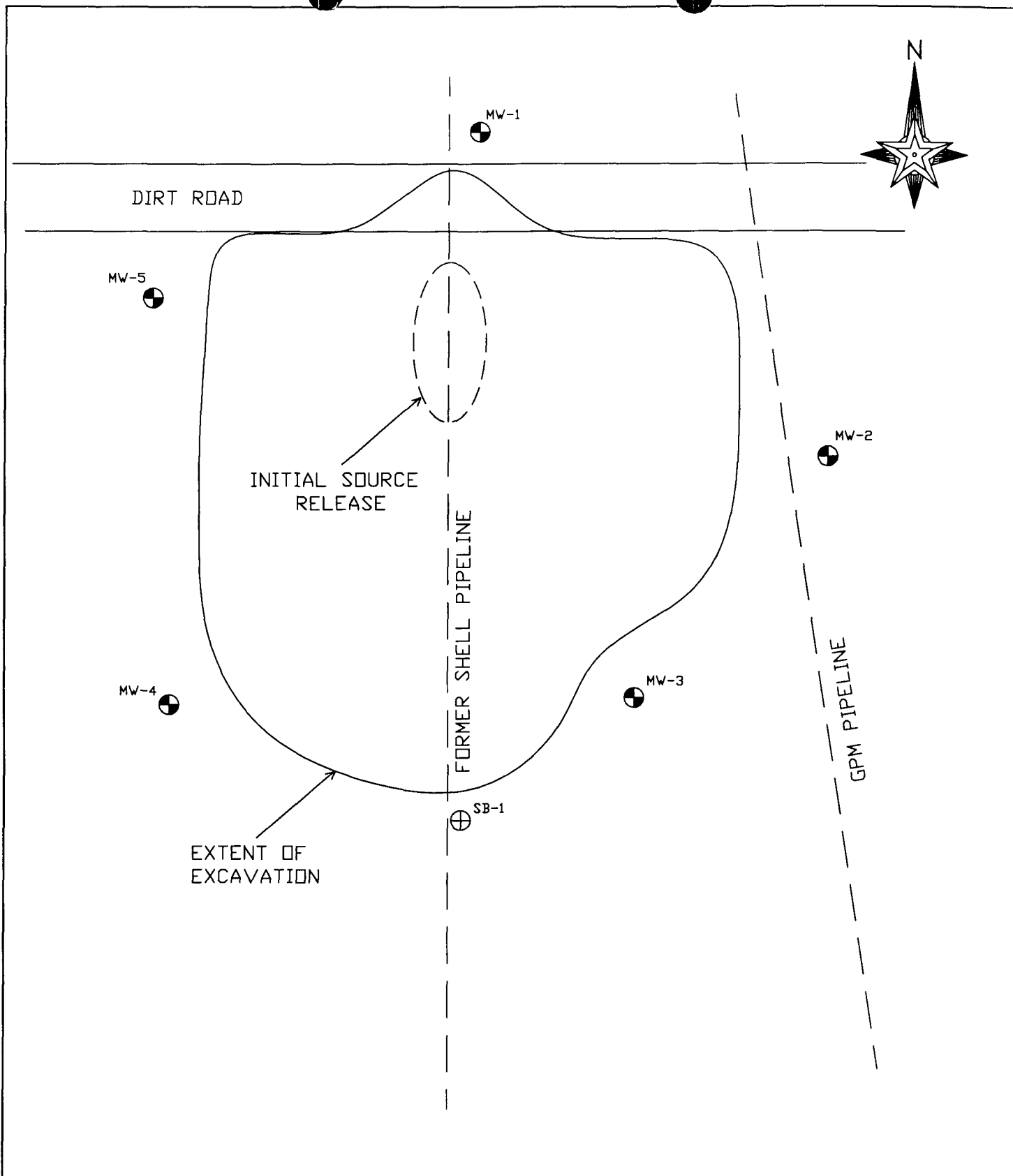
Should you have any questions or comments concerning this letter, please do not hesitate to contact me at (972) 247-1700 or Mr. Jeff Kindley with Enercon Services, Inc. at (915) 570-8726.

Respectfully,  
Shell Oil Products US



Scott E. Burkey  
Environmental Specialist

cc: Mr. Paul Sheeley, NMOCD, Hobbs, NM  
Mr. Jeff Kindley, Enercon Services, Inc.  
Mr. Randy Bayliss, NMOCD, Santa Fe, NM



MONITOR WELL AND SOIL BORING LOCATION MAP

SCALE 1" = 50'

PREPARED FOR:

SHELL OIL PRODUCTS, U.S.  
JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO

PREPARED BY:

ENERCON SERVICES, INC.  
306 WEST WALL, SUITE 1312  
MIDLAND, TX 79701  
(915) 570-8726

INCIDENT #

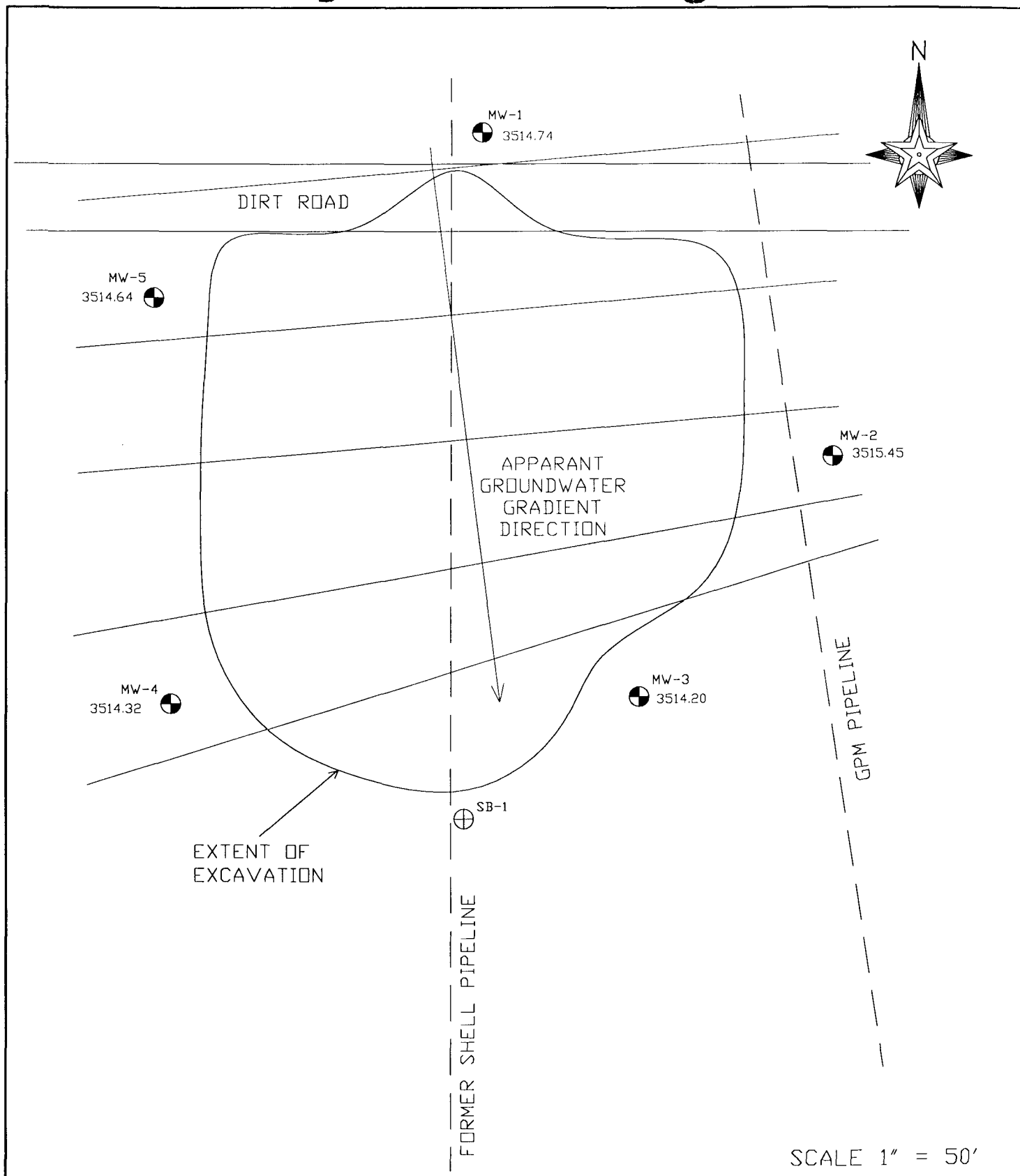
300110

PROJECT NUMBER:

EQ-110

FIGURE

1



# GROUNDWATER GRADIENT MAP

JANUARY 9, 2003

PREPARED FOR:

SHELL OIL PRODUCTS, U.S.  
JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO

PREPARED BY:

ENERCON SERVICES, INC.  
306 WEST WALL, SUITE 1312  
MIDLAND, TX 79701  
(915) 570-8726

INCIDENT #

300110

PROJECT NUMBER:

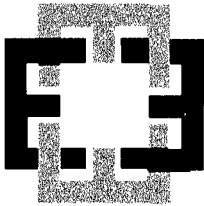
EQ-110

FIGURE

2

**TABLE 1**  
**GROUNDWATER ANALYTICAL RESULTS**  
**SHELL - JOHN HENDRIX**  
**MONUMENT, LEA COUNTY, NEW MEXICO**

| Sample Location   | Date     | Benzene<br>(in mg/L) | Toluene<br>(in mg/L) | Ethylbenzene<br>(in mg/L) | Xylenes<br>(in mg/L) | Total BTEX<br>(in mg/L) | PAH                |                       |                           |
|-------------------|----------|----------------------|----------------------|---------------------------|----------------------|-------------------------|--------------------|-----------------------|---------------------------|
|                   |          |                      |                      |                           |                      |                         | Total<br>(in mg/L) | Fluorene<br>(in mg/L) | Phenanthrene<br>(in mg/L) |
| MW-1              | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 08/24/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.001             | <0.001                | <0.001                    |
|                   | 01/09/03 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.001             | <0.001                | <0.001                    |
| MW-2              | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | 0.00070            | 0.00026               | 0.00044                   |
|                   | 08/24/02 | 0.0029               | <0.001               | <0.001                    | <0.001               | 0.0029                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 10/09/02 | <0.001               | <0.001               | <0.001                    | 0.0011               | 0.0011                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 01/09/03 | PSH                  | PSH                  | PSH                       | PSH                  | PSH                     | PSH                | PSH                   | PSH                       |
| MW-3              | 05/14/02 | 0.0042               | <0.001               | <0.001                    | <0.001               | 0.0042                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 08/24/02 | 0.0026               | <0.001               | <0.001                    | <0.001               | 0.0026                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 01/09/03 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
| MW-4              | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 08/24/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 01/09/03 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
| MW-5              | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 08/24/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                   | 01/09/03 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
| NMOCD Standard    |          | 0.01                 | 0.75                 | 0.75                      | 0.62                 | NA                      | NA                 | NA                    | NA                        |
| ND = Not detected |          | NA = Not applicable  |                      | NS = Not sampled          |                      |                         |                    |                       |                           |



ENERCON SERVICES, INC.  
An Employee Owned Company

2775 Villa Creek, Suite 120  
Dallas, TX 754234  
(972) 484-2854  
Fax: (972) 484-8835

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MAR 10 2003

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

February 19, 2003

Mr. Scott E. Burkey  
Shell Oil Products US  
7750 N. MacArthur, Suite 120 PMB 319  
Irving, Texas 75063

**RE: 2002 ANNUAL GROUNDWATER MONITORING REPORT  
JANUARY THROUGH DECEMBER 2002  
JOHN HENDRIX RELEASE SITE  
LEA COUNTY, NEW MEXICO**

Mr. Burkey:

This report details the groundwater monitoring activities at the John Hendrix release site from January 1, 2002 through December 31, 2002. The site is located approximately 4 miles southwest of Monument, on Brickline Road, in Lea County, New Mexico. The purpose of the groundwater monitoring activities was to gauge monitor wells and collect groundwater samples in an effort to follow the extent and impact of a groundwater plume apparently originating from a subsurface crude oil pipeline release. The monitor wells were installed in May 2002.

#### **SITE SAFETY**

Before work was initiated each day, all personnel working at the site attended a tailgate safety meeting. During the meetings, the Site Health and Safety Officer discussed the safety and health concerns and procedures for the site as outlined in the Site Health and Safety Plan (HASP). All personnel signed the HASP at the close of each meeting to document their attendance. A copy of the HASP was maintained at the site during all working hours in an easily accessible area.

#### **GROUNDWATER ASSESSMENT**

Enercon has completed monitoring at the referenced facility for the period from January 1, 2002 through December 31, 2002. All monitor wells were gauged and samples were collected three times during the annual monitoring period.

Quarterly hand bailing has been utilized as the recovery techniques for all monitor wells onsite (MW-1 to MW-5) when they exhibited phase-separated hydrocarbons (PSH). No PSH was detected during the three quarterly monitoring events.

Depth to groundwater ranged across the site from 32.32 feet below the top of the casing (TOC) in monitor well MW-2 to 33.86 feet in monitor well MW-5. Groundwater table elevation fluctuated from a minimum of 0.06 feet in MW-1 to a maximum of 0.11 feet in MW-3 and MW-4, with an average fluctuation of 0.09 feet across the site during the year. Groundwater at the site was determined to flow to the south to southeast. Figures 2-4 illustrate the groundwater gradient based on the three quarterly gauging events for the year. Relative groundwater elevations are recorded in Table 1, Appendix B.

## **GROUNDWATER SAMPLING**

No first quarter groundwater monitoring event was conducted since the five onsite monitor wells were not installed until May 2002.

On May 13, 2002 Enercon conducted the second quarter groundwater monitoring event. Groundwater samples were collected from monitor wells MW-1, MW-2, MW-3, MW-4, and MW-5 and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Laboratory analytical results indicated concentrations of 0.0042 mg/l benzene from monitor well MW-3. All remaining groundwater samples analyzed resulted in BTEX concentrations below laboratory detectable limits. Laboratory analytical results indicated PAH concentrations of 0.00026 mg/l fluorene and 0.00044 mg/l phenanthrene from monitor well MW-2. All remaining groundwater samples analyzed resulted in PAH concentrations below laboratory detectable limits.

On August 24, 2002, the third quarter groundwater sampling event was performed. Groundwater samples were collected from monitor wells MW-1, MW-2, MW-3, MW-4, and MW-5, and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Laboratory analytical results indicated concentrations of 0.0029 mg/l benzene from monitor well MW-2 and 0.0026 mg/l benzene from monitor well MW-3. BTEX concentrations from all other groundwater samples were below laboratory detectable limits. Laboratory analytical results indicated PAH concentrations below laboratory detectable limits for all monitor wells sampled.

On October 9, 2002, the fourth quarter groundwater sampling event was performed. Groundwater samples were collected from monitor wells MW-1, MW-2, MW-3, MW-4, and MW-5 and analyzed for BTEX (EPA Method 8021B) and PAH (EPA Method 8270C). Except for 0.0011 mg/l xylenes in MW-2, laboratory analytical results indicated BTEX and PAH concentrations below laboratory detectable limits for all monitor wells sampled.

In summary, laboratory analytical results indicated PAH concentrations of 0.00026 mg/l fluorene and 0.00044 mg/l phenanthrene in monitor well MW-2 during the 5/13/02 sampling event. No other PAH concentrations were detected in the remaining monitor wells sampled onsite throughout the year. Laboratory analytical results indicated concentrations of benzene ranging from 0.0026 mg/l in monitor well MW-3 to 0.0042 mg/l in MW-3. Laboratory analytical results indicated xylene concentrations were

detected only in monitor well MW-2 with a concentration of 0.0011 mg/l. All other BTEX concentrations from all other groundwater samples were below laboratory detectable limits. Figures 5 through 7 in Appendix A illustrate the dissolved hydrocarbon concentrations across the site based on the three quarterly gauging events for the year. In addition, laboratory analytical results are summarized in Table 2, Attachment B of this report. Laboratory data sheets are included as Attachment C.

Enercon Services, Inc. appreciates the opportunity to provide you with our professional consulting services on this important project. If you have any questions or if we can be of further assistance, please do not hesitate to call.

Respectfully,  
Enercon Services, Inc.



*for* Jeffrey W. Kindley, P.G.  
Senior Project Manager

## ATTACHMENT A

### FIGURES

Site Map (Figure 1)

Groundwater Gradient Maps (Figures 2, 3, and 4)

Hydrocarbon Concentration Maps (Figures 5, 6, and 7)

MW-5



MW-1



GPM GASOLINE

MW-2



MW-3



MW-4



FORMER SHELL PIPELINE

SB-1



**EQUIVA SERVICES, L.L.C.**

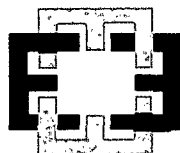
EQ-110  
Figure 1



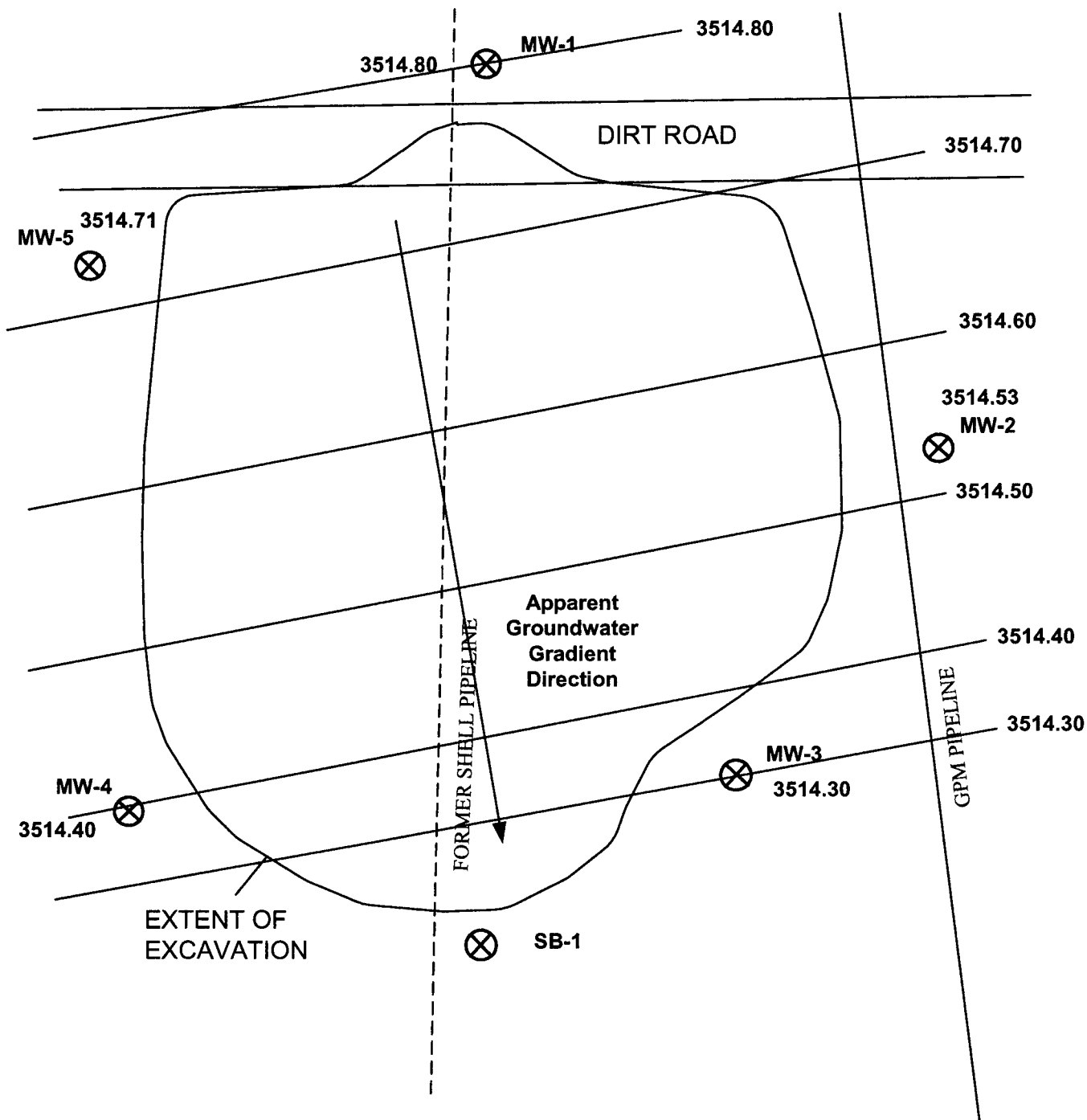
**SITE MAP**

SCALE: 1" = 50'

**JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO**



**ENERCON SERVICES, INC.**  
2775 VILLA CREEK  
SUITE 120  
DALLAS, TX 75234-7420  
(972) 484-3854

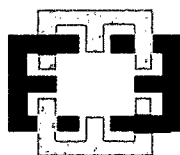


**SHELL OIL PRODUCTS US**  
**EQ-110**  
**Figure 2**

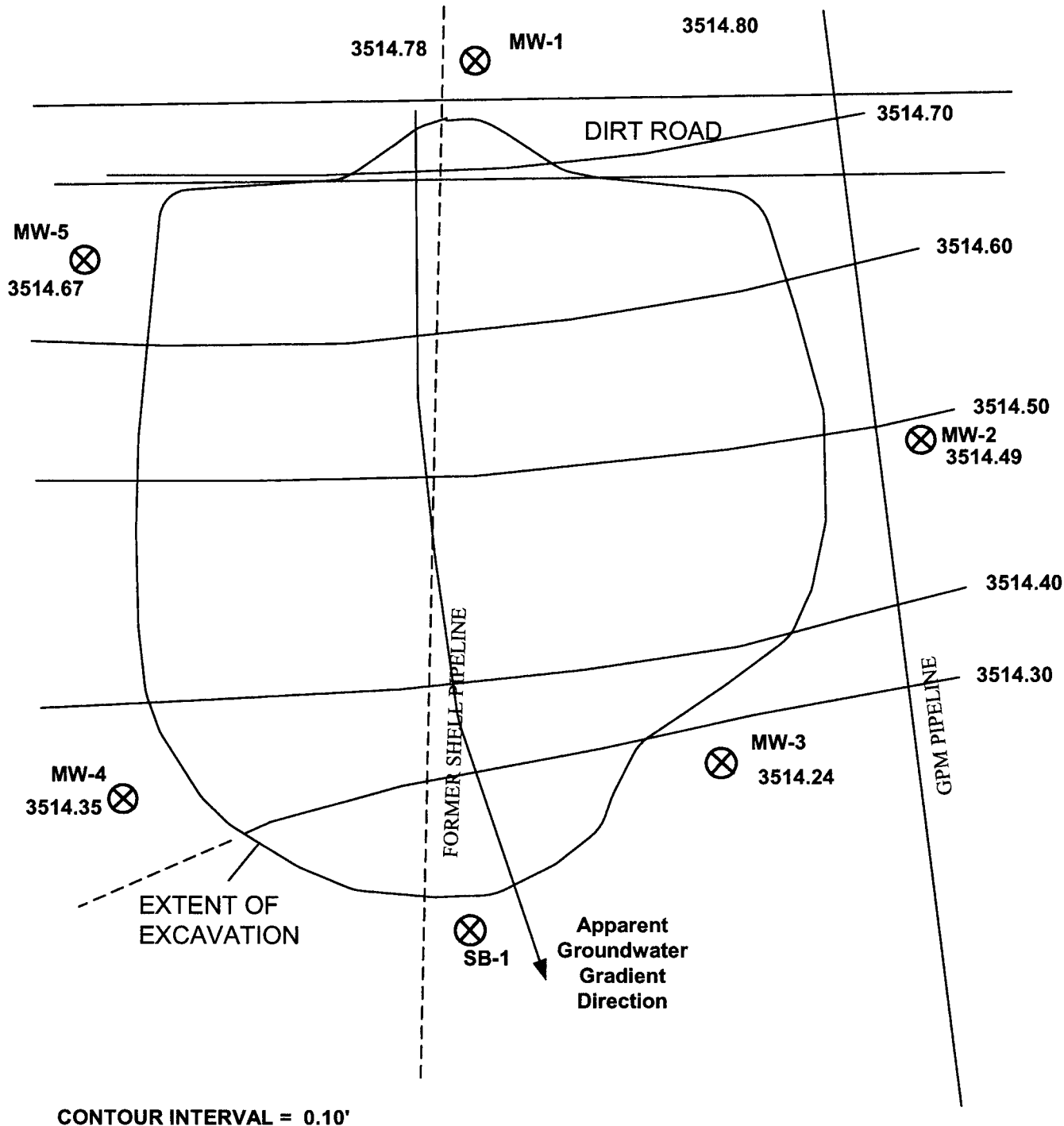


**Groundwater Gradient Map**  
**May 13, 2002**  
**SCALE: 1" = 50'**

**JOHN HENDRIX SITE**  
**MONUMENT**  
**LEA COUNTY, NEW MEXICO**



**ENERCON SERVICES, INC.**  
**306 WEST WALL**  
**SUITE 1312**  
**MIDLAND, TX 79701**  
**(915) 570-8726**

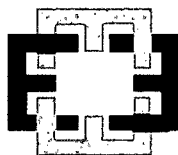


**SHELL OIL PRODUCTS US**  
EQ-110  
Figure 3

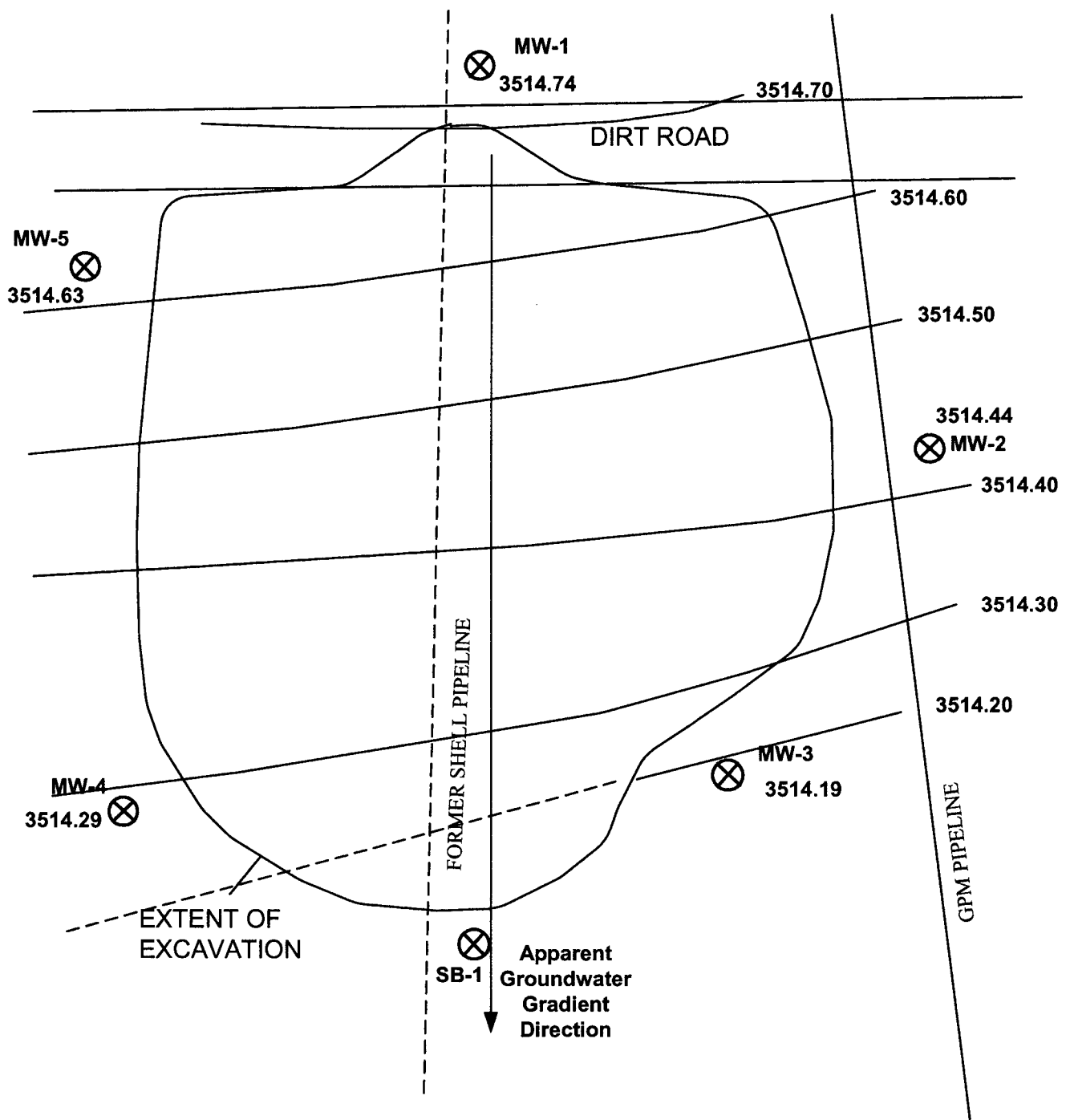


**Groundwater Gradient Map**  
August 24, 2002  
SCALE: 1" = 50'

**JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO**



**ENERCON SERVICES, INC.**  
306 WEST WALL  
SUITE 1312  
MIDLAND, TX 79701  
(915) 570-8726



CONTOUR INTERVAL = 0.10'

**SHELL OIL PRODUCTS US**

EQ-110  
Figure 4

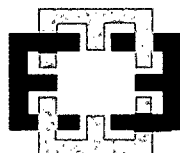


**Groundwater Gradient Map**

**October 9, 2002**

**SCALE: 1" = 50'**

**JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO**



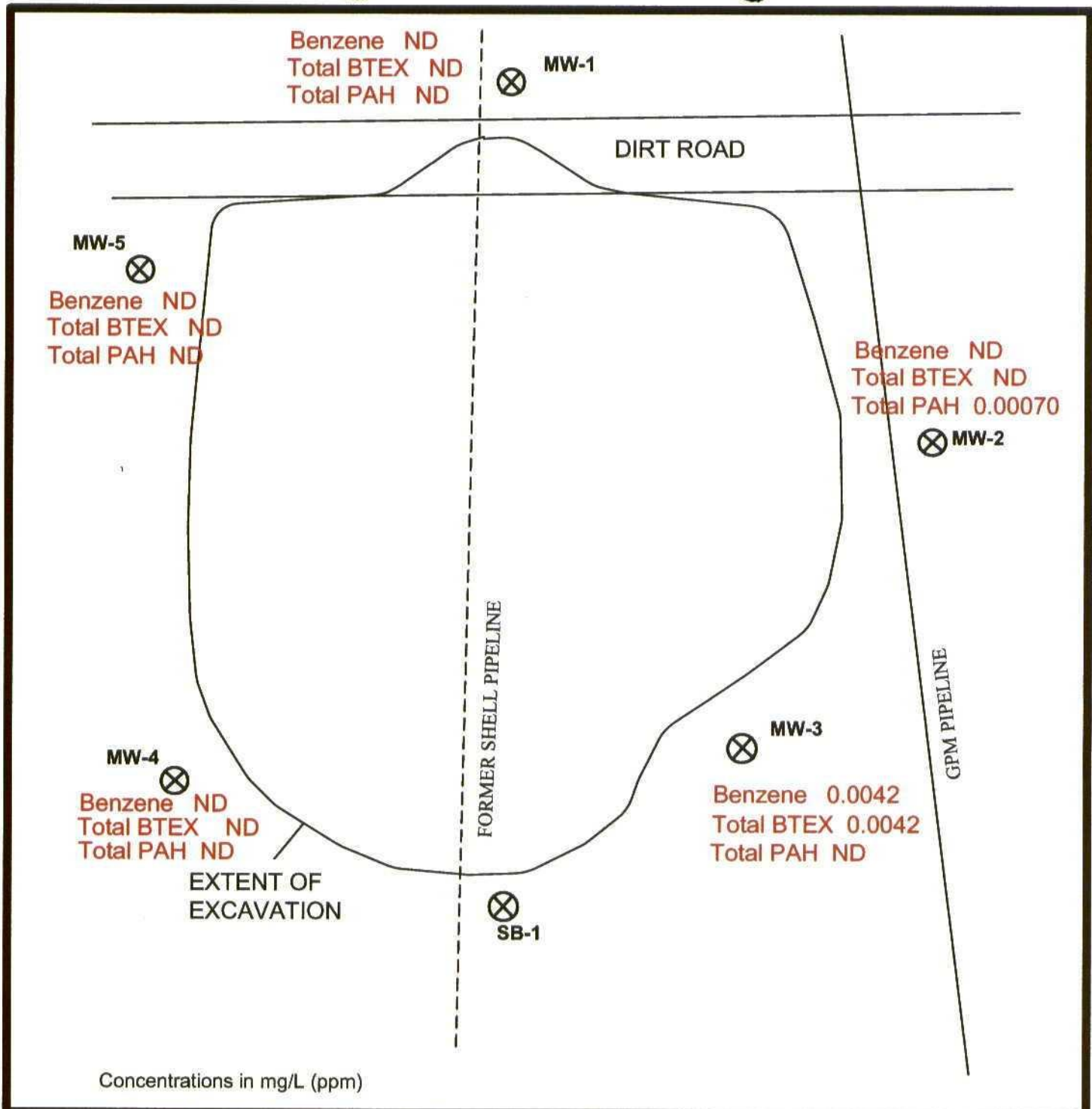
**ENERCON SERVICES, INC.**

**306 WEST WALL**

**SUITE 1312**

**MIDLAND, TX 79701**

**(915) 570-8726**



**SHELL OIL PRODUCTS US**

**EQ-110**

**Figure 5**

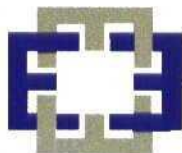


**Hydrocarbon Concentration Map**

**May 16, 2002**

**SCALE: 1" = 50'**

**JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO**



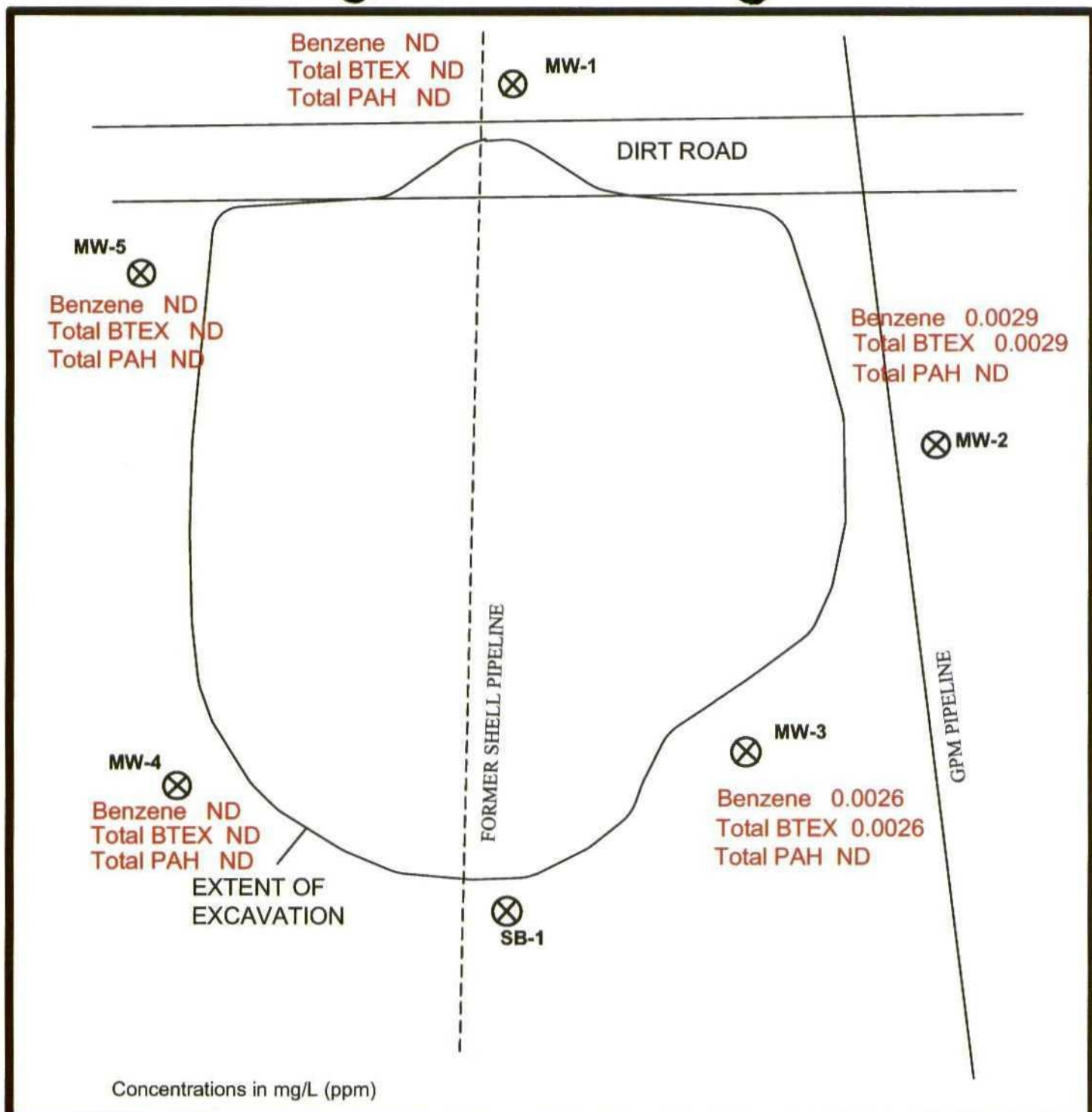
**ENERCON SERVICES, INC.**

**306 WEST WALL**

**SUITE 1312**

**MIDLAND, TX 79701**

**(915) 570-8726**



SHELL OIL PRODUCTS US

EQ-110

Figure 6



Hydrocarbon Concentration Map

August 23, 2002

SCALE: 1" = 50'

JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO



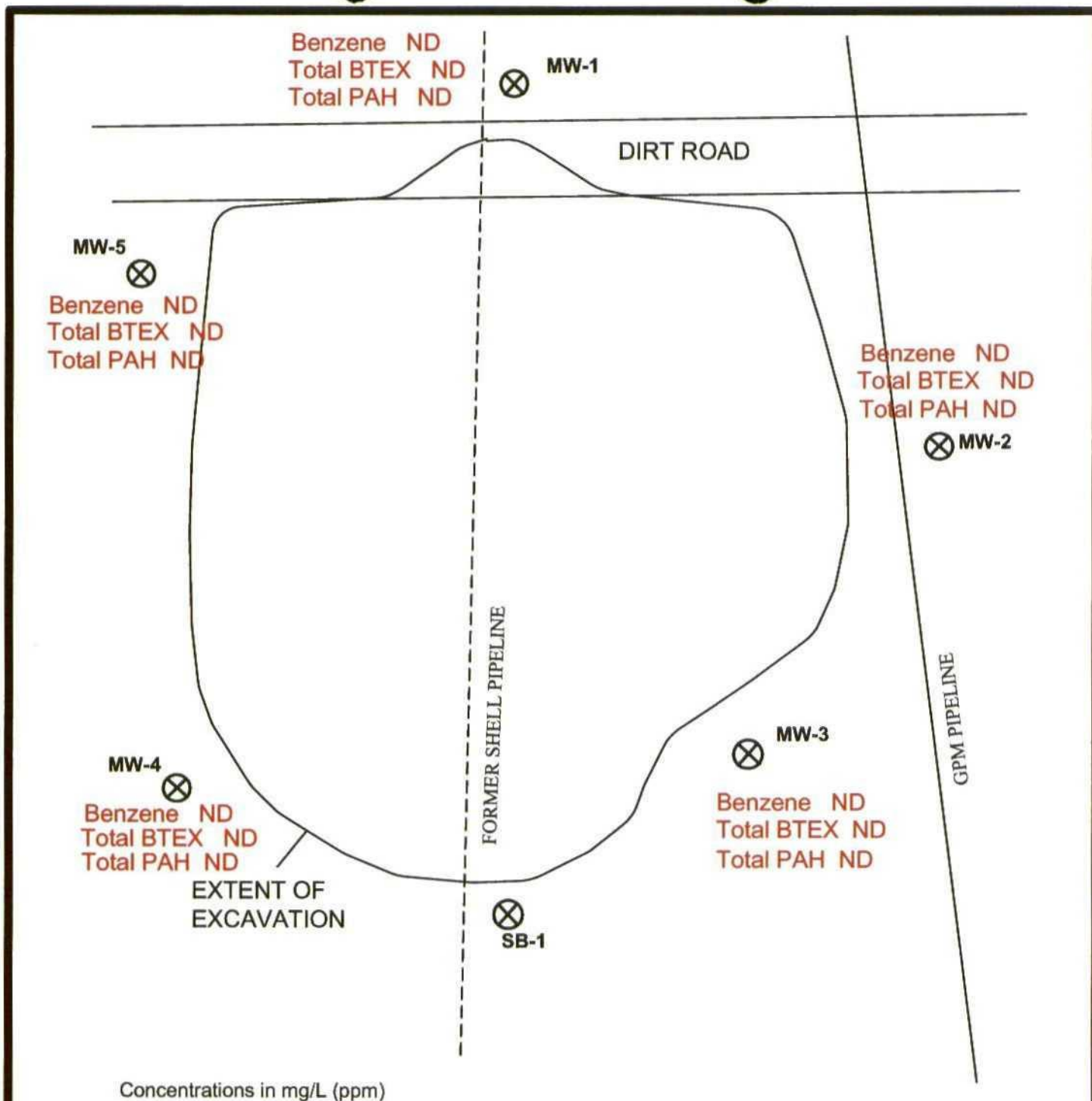
ENERCON SERVICES, INC.

306 WEST WALL

SUITE 1312

MIDLAND, TX 79701

(915) 570-8726



**SHELL OIL PRODUCTS US**  
EQ-110  
Figure 7



**Hydrocarbon Concentration Map**  
October 9, 2002  
SCALE: 1" = 50'

**JOHN HENDRIX SITE  
MONUMENT  
LEA COUNTY, NEW MEXICO**



**ENERCON SERVICES, INC.**  
306 WEST WALL  
SUITE 1312  
MIDLAND, TX 79701  
(915) 570-8726

**ATTACHMENT B**

**TABLES**

Relative Groundwater Elevations-(Table1)  
Dissolved Hydrocarbon Concentrations (Table 2)

**TABLE 1**  
**JOHN HENDRIX**  
**RELATIVE GROUNDWATER ELEVATIONS**  
**MONUMENT, LEA COUNTY, NEW MEXICO**

| Monitor Well | Date Gauged | Relative Top of Casing Elevation (in feet) | Depth to Water Below Top of Casing (feet) | Corrected Relative Groundwater Elevation (feet)* | PSH Thickness (in feet) |
|--------------|-------------|--------------------------------------------|-------------------------------------------|--------------------------------------------------|-------------------------|
| MW-1         | 5/16/02     | 3,547.99                                   | 33.19                                     | 3,514.80                                         | 0                       |
|              | 8/23/02     |                                            | 33.21                                     | 3,514.78                                         | 0                       |
|              | 10/9/02     |                                            | 33.25                                     | 3,514.74                                         | 0                       |
| MW-2         | 5/16/02     | 3,546.85                                   | 32.32                                     | 3,514.53                                         | 0                       |
|              | 8/23/02     |                                            | 32.36                                     | 3,514.49                                         | 0                       |
|              | 10/9/02     |                                            | 32.41                                     | 3,514.44                                         | 0                       |
| MW-3         | 5/16/02     | 3,547.90                                   | 33.6                                      | 3,514.30                                         | 0                       |
|              | 8/23/02     |                                            | 33.66                                     | 3,514.24                                         | 0                       |
|              | 10/9/02     |                                            | 33.71                                     | 3,514.19                                         | 0                       |
| MW-4         | 5/16/02     | 3,547.97                                   | 33.57                                     | 3,514.40                                         | 0                       |
|              | 8/23/02     |                                            | 33.62                                     | 3,514.35                                         | 0                       |
|              | 10/9/02     |                                            | 33.68                                     | 3,514.29                                         | 0                       |
| MW-5         | 5/16/02     | 3,548.49                                   | 33.78                                     | 3,514.71                                         | 0                       |
|              | 8/23/02     |                                            | 33.82                                     | 3,514.67                                         | 0                       |
|              | 10/9/02     |                                            | 33.86                                     | 3,514.63                                         | 0                       |

\*Correction Equation for Phase-Separated Hydrocarbons: Corrected Groundwater Elevation = Top of Casing Elevation - [Depth to Water Below Top of Casing - (SG)(PSH Thickness)]. Specific Gravity (SG) = 0.9 for crude oil.

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**JOHN HENDRIX**  
**MONUMENT, LEA COUNTY, NEW MEXICO**

| Sample Location | Date     | Benzene<br>(in mg/L) | Toluene<br>(in mg/L) | Ethylbenzene<br>(in mg/L) | Xylenes<br>(in mg/L) | Total BTEX<br>(in mg/L) | PAH                |                       |                           |
|-----------------|----------|----------------------|----------------------|---------------------------|----------------------|-------------------------|--------------------|-----------------------|---------------------------|
|                 |          |                      |                      |                           |                      |                         | Total<br>(in mg/L) | Fluorene<br>(in mg/L) | Phenanthrene<br>(in mg/L) |
| MW-1            | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 08/24/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.001             | <0.001                | <0.001                    |
| MW-2            | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | 0.00070            | 0.00026               | 0.00044                   |
|                 | 08/24/02 | 0.0029               | <0.001               | <0.001                    | <0.001               | 0.0029                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 10/09/02 | <0.001               | <0.001               | <0.001                    | 0.0011               | 0.0011                  | <0.0002            | <0.0002               | <0.0002                   |
| MW-3            | 05/14/02 | 0.0042               | <0.001               | <0.001                    | <0.001               | 0.0042                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 08/24/02 | 0.0026               | <0.001               | <0.001                    | <0.001               | 0.0026                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
| MW-4            | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 08/24/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
| MW-5            | 05/13/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 08/24/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
|                 | 10/09/02 | <0.001               | <0.001               | <0.001                    | <0.001               | <0.001                  | <0.0002            | <0.0002               | <0.0002                   |
| NMOC Standard   |          | 0.01                 | 0.75                 | 0.75                      | 0.62                 | NA                      | NA                 | NA                    | NA                        |

ND = Not detected      NA = Not applicable      NS = Not sampled

ATTACHMENT C

Analytical Data

Report Date: June 13, 2002 Order Number: A02051504  
EQ-110 300110

Page Number: 1 of 3  
Monument, New Mexico

## Summary Report

Kyle Landreneau  
Equiva Kyle Landreneau  
PMB 284 40 FM 1960 West  
Houston, TX 77090

Report Date: June 13, 2002

Order ID Number: A02051504

Project: EQ-110  
TA Job Code: 300110  
Casualty Code: EQ-110  
Project Location: Monument, New Mexico  
Project Address:  
Enercon Services Inc. / Midland / Jeff Kindley

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 197042 | MW-1        | Water  | 5/13/02    | 12:50      | 5/15/02       |
| 197043 | MW-2        | Water  | 5/13/02    | 15:44      | 5/15/02       |
| 197044 | MW-4        | Water  | 5/13/02    | 15:35      | 5/15/02       |
| 197045 | MW-5        | Water  | 5/13/02    | 16:05      | 5/15/02       |

0 This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

| Sample - Field Code | BTEX          |               |                    |                    |                  |
|---------------------|---------------|---------------|--------------------|--------------------|------------------|
|                     | Benzene (ppm) | Toluene (ppm) | Ethylbenzene (ppm) | M,P,O-Xylene (ppm) | Total BTEX (ppm) |
| 197042 - MW-1       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |
| 197043 - MW-2       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |
| 197044 - MW-4       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |
| 197045 - MW-5       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |

### Sample: 197042 - MW-1

| Param                | Flag | Result   | Units |
|----------------------|------|----------|-------|
| Naphthalene          |      | <0.00020 | mg/L  |
| Acenaphthylene       |      | <0.00020 | mg/L  |
| Acenaphthene         |      | <0.00020 | mg/L  |
| Fluorene             |      | <0.00020 | mg/L  |
| Phenanthrene         |      | <0.00020 | mg/L  |
| Anthracene           |      | <0.00020 | mg/L  |
| Fluoranthene         |      | <0.00020 | mg/L  |
| Pyrene               |      | <0.00020 | mg/L  |
| Benzo(a)anthracene   |      | <0.00020 | mg/L  |
| Chrysene             |      | <0.00020 | mg/L  |
| Benzo(b)fluoranthene |      | <0.00020 | mg/L  |
| Benzo(k)fluoranthene |      | <0.00020 | mg/L  |

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 13, 2002 Order Number: A02051504  
EQ-110 300110Page Number: 2 of 3  
Monument, New Mexico

Sample 197042 continued ...

| Param                  | Flag | Result   | Units |
|------------------------|------|----------|-------|
| Benzo(a)pyrene         |      | <0.00020 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  |

## Sample: 197043 - MW-2

| Param                  | Flag | Result   | Units |
|------------------------|------|----------|-------|
| Naphthalene            |      | <0.00020 | mg/L  |
| Acenaphthylene         |      | <0.00020 | mg/L  |
| Acenaphthene           |      | <0.00020 | mg/L  |
| Fluorene               |      | 0.00026  | mg/L  |
| Phenanthrene           |      | 0.00044  | mg/L  |
| Anthracene             |      | <0.00020 | mg/L  |
| Fluoranthene           |      | <0.00020 | mg/L  |
| Pyrene                 |      | <0.00020 | mg/L  |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  |
| Chrysene               |      | <0.00020 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  |

## Sample: 197044 - MW-4

| Param                  | Flag | Result   | Units |
|------------------------|------|----------|-------|
| Naphthalene            |      | <0.00020 | mg/L  |
| Acenaphthylene         |      | <0.00020 | mg/L  |
| Acenaphthene           |      | <0.00020 | mg/L  |
| Fluorene               |      | <0.00020 | mg/L  |
| Phenanthrene           |      | <0.00020 | mg/L  |
| Anthracene             |      | <0.00020 | mg/L  |
| Fluoranthene           |      | <0.00020 | mg/L  |
| Pyrene                 |      | <0.00020 | mg/L  |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  |
| Chrysene               |      | <0.00020 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  |

Report Date: June 13, 2002 Order Number: A02051504  
EQ-110 300110Page Number: 3 of 3  
Monument, New Mexico

## Sample: 197045 - MW-5

| Param                  | Flag | Result   | Units |
|------------------------|------|----------|-------|
| Naphthalene            |      | <0.00020 | mg/L  |
| Acenaphthylene         |      | <0.00020 | mg/L  |
| Acenaphthene           |      | <0.00020 | mg/L  |
| Fluorene               |      | <0.00020 | mg/L  |
| Phenanthrene           |      | <0.00020 | mg/L  |
| Anthracene             |      | <0.00020 | mg/L  |
| Fluoranthene           |      | <0.00020 | mg/L  |
| Pyrene                 |      | <0.00020 | mg/L  |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  |
| Chrysene               |      | <0.00020 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424  
El Paso, Texas 79932

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

Kyle Landreneau  
Equiva Kyle Landreneau  
PMB 284 40 FM 1960 West  
Houston, TX 77090

Report Date: June 13, 2002

Order ID Number: A02051504

Project: EQ-110  
TA Job Code: 300110  
Casualty Code: EQ-110  
Project Location: Monument, New Mexico  
Enercon Services Inc. / Midland / Jeff Kindley

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 |
|--------|-------------|--------|------------|------------|---------------|
| 197042 | MW-1        | Water  | 5/13/02    | 12:50      | 5/15/02       |
| 197043 | MW-2        | Water  | 5/13/02    | 15:44      | 5/15/02       |
| 197044 | MW-4        | Water  | 5/13/02    | 15:35      | 5/15/02       |
| 197045 | MW-5        | Water  | 5/13/02    | 16:05      | 5/15/02       |

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. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of Trace Analysis, Inc.



Dr. Blair Leftwich, Director

## Analytical Report

Sample: 197042 - MW-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC20321 Date Analyzed: 5/15/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19433 Date Prepared: 5/15/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0872 | mg/L  | 1        | 0.10         | 87               | 70 - 130        |
| 4-BFB     |      | 0.0879 | mg/L  | 1        | 0.10         | 88               | 70 - 130        |

Sample: 197042 - MW-1

Analysis: PAH Analytical Method: S 8270C QC Batch: QC21024 Date Analyzed: 5/19/02  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB20024 Date Prepared: 5/19/02

| Param                  | Flag | Result   | Units | Dilution | RDL    |
|------------------------|------|----------|-------|----------|--------|
| Naphthalene            |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 62.98  | mg/L  | 1        | 80           | 78               | 35 - 114        |
| 2-Fluorobiphenyl |      | 61.05  | mg/L  | 1        | 80           | 76               | 43 - 116        |
| Terphenyl-d14    |      | 28.22  | mg/L  | 1        | 80           | 35               | 33 - 141        |

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Sample: 197043 - MW-2

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC20321 Date Analyzed: 5/15/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19433 Date Prepared: 5/15/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.089  | mg/L  | 1        | 0.10         | 89               | 70 - 130        |
| 4-BFB     |      | 0.0948 | mg/L  | 1        | 0.10         | 95               | 70 - 130        |

Sample: 197043 - MW-2

Analysis: PAH Analytical Method: S 8270C QC Batch: QC21024 Date Analyzed: 5/19/02  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB20024 Date Prepared: 5/19/02

| Param                  | Flag | Result   | Units | Dilution | RDL    |
|------------------------|------|----------|-------|----------|--------|
| Naphthalene            |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | 0.00026  | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | 0.00044  | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 40.15  | mg/L  | 1        | 80           | 50               | 35 - 114        |
| 2-Fluorobiphenyl |      | 42.87  | mg/L  | 1        | 80           | 53               | 43 - 116        |
| Terphenyl-d14    |      | 19.77  | mg/L  | 1        | 80           | 24               | 33 - 141        |

Sample: 197044 - MW-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC20321 Date Analyzed: 5/15/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19433 Date Prepared: 5/15/02

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| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.090  | mg/L  | 1        | 0.10         | 90               | 70 - 130        |
| 4-BFB     |      | 0.0956 | mg/L  | 1        | 0.10         | 96               | 70 - 130        |

Sample: 197044 - MW-4

Analysis: PAH Analytical Method: S 8270C QC Batch: QC21024 Date Analyzed: 5/19/02  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB20024 Date Prepared: 5/19/02

| Param                  | Flag | Result   | Units | Dilution | RDL    |
|------------------------|------|----------|-------|----------|--------|
| Naphthalene            |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 61.63  | mg/L  | 1        | 80           | 77               | 35 - 114        |
| 2-Fluorobiphenyl |      | 66.87  | mg/L  | 1        | 80           | 83               | 43 - 116        |
| Terphenyl-d14    |      | 31.9   | mg/L  | 1        | 80           | 39               | 33 - 141        |

Sample: 197045 - MW-5

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC20321 Date Analyzed: 5/15/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19433 Date Prepared: 5/15/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |

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... Continued Sample: 197045 Analysis: BTEX

| Param      | Flag | Result | Units | Dilution | RDL   |
|------------|------|--------|-------|----------|-------|
| Total BTEX |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0911 | mg/L  | 1        | 0.10         | 91               | 70 - 130        |
| 4-BFB     |      | 0.0966 | mg/L  | 1        | 0.10         | 97               | 70 - 130        |

Sample: 197045 - MW-5

|               |                             |                     |                        |
|---------------|-----------------------------|---------------------|------------------------|
| Analysis: PAH | Analytical Method: S 8270C  | QC Batch: QC21024   | Date Analyzed: 5/19/02 |
| Analyst: RC   | Preparation Method: E 3510C | Prep Batch: PB20024 | Date Prepared: 5/19/02 |

| Param                  | Flag | Result   | Units | Dilution | RDL    |
|------------------------|------|----------|-------|----------|--------|
| Naphthalene            |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 58.78  | mg/L  | 1        | 80           | 73               | 35 - 114        |
| 2-Fluorobiphenyl |      | 60.64  | mg/L  | 1        | 80           | 75               | 43 - 116        |
| Terphenyl-d14    |      | 28.22  | mg/L  | 1        | 80           | 35               | 33 - 141        |

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC20321

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <0.001  | mg/L  | 0.001           |
| Toluene      |      | <0.001  | mg/L  | 0.001           |
| Ethylbenzene |      | <0.001  | mg/L  | 0.001           |
| M,P,O-Xylene |      | <0.001  | mg/L  | 0.001           |
| Total BTEX   |      | <0.001  | mg/L  | 0.001           |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0914 | mg/L  | 1        | 0.10         | 91               | 70 - 130        |
| 4-BFB     |      | 0.0923 | mg/L  | 1        | 0.10         | 92               | 70 - 130        |

Method Blank      QCBatch:    QC21024

| Param                  | Flag | Results  | Units | Reporting Limit |
|------------------------|------|----------|-------|-----------------|
| Naphthalene            |      | <0.00020 | mg/L  | 0.0002          |
| Acenaphthylene         |      | <0.00020 | mg/L  | 0.0002          |
| Acenaphthene           |      | <0.00020 | mg/L  | 0.0002          |
| Fluorene               |      | <0.00020 | mg/L  | 0.0002          |
| Phenanthrene           |      | <0.00020 | mg/L  | 0.0002          |
| Anthracene             |      | <0.00020 | mg/L  | 0.0002          |
| Fluoranthene           |      | <0.00020 | mg/L  | 0.0002          |
| Pyrene                 |      | <0.00020 | mg/L  | 0.0002          |
| Benzo(a)anthracene     |      | <0.00020 | mg/L  | 0.0002          |
| Chrysene               |      | <0.00020 | mg/L  | 0.0002          |
| Benzo(b)fluoranthene   |      | <0.00020 | mg/L  | 0.0002          |
| Benzo(k)fluoranthene   |      | <0.00020 | mg/L  | 0.0002          |
| Benzo(a)pyrene         |      | <0.00020 | mg/L  | 0.0002          |
| Indeno(1,2,3-cd)pyrene |      | <0.00020 | mg/L  | 0.0002          |
| Dibenzo(a,h)anthracene |      | <0.00020 | mg/L  | 0.0002          |
| Benzo(g,h,i)perylene   |      | <0.00020 | mg/L  | 0.0002          |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 56.26  | mg/L  | 1        | 80           | 70               | 35 - 114        |
| 2-Fluorobiphenyl |      | 54.88  | mg/L  | 1        | 80           | 68               | 43 - 116        |
| Terphenyl-d14    |      | 43.06  | mg/L  | 1        | 80           | 53               | 33 - 141        |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

### Laboratory Control Spikes

QCBatch: QC20321

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| MTBE         | 0.0909     | 0.0912      | mg/L  | 1    | 0.10               | <0.001        | 91    | 0   | 70 - 130    | 20        |
| Benzene      | 0.0921     | 0.0953      | mg/L  | 1    | 0.10               | <0.001        | 92    | 3   | 70 - 130    | 20        |
| Toluene      | 0.093      | 0.0952      | mg/L  | 1    | 0.10               | <0.001        | 93    | 2   | 70 - 130    | 20        |
| Ethylbenzene | 0.0946     | 0.0953      | mg/L  | 1    | 0.10               | <0.001        | 95    | 1   | 70 - 130    | 20        |
| M,P,O-Xylene | 0.281      | 0.284       | mg/L  | 1    | 0.30               | <0.001        | 94    | 1   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.0915     | 0.0948      | mg/L  | 1        | 0.10         | 92        | 95         | 70 - 130        |
| 4-BFB     | 0.0926     | 0.0944      | mg/L  | 1        | 0.10         | 93        | 94         | 70 - 130        |

### Laboratory Control Spikes

QCBatch: QC21024

| Param                  | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|------------------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Naphthalene            | 51.12      | 51.64       | mg/L  | 1    | 80                 | <0.00020      | 63    | 1   | 16 - 96     | 20        |
| Acenaphthylene         | 57.50      | 58.58       | mg/L  | 1    | 80                 | <0.00020      | 71    | 1   | 20 - 110    | 20        |
| Acenaphthene           | 55.65      | 57.07       | mg/L  | 1    | 80                 | <0.00020      | 69    | 2   | 18 - 108    | 20        |
| Fluorene               | 58.70      | 59.56       | mg/L  | 1    | 80                 | <0.00020      | 73    | 1   | 22 - 102    | 20        |
| Phenanthrene           | 63.65      | 61.33       | mg/L  | 1    | 80                 | <0.00020      | 79    | 3   | 25 - 103    | 20        |
| Anthracene             | 64.81      | 62.23       | mg/L  | 1    | 80                 | <0.00020      | 81    | 4   | 22 - 110    | 20        |
| Fluoranthene           | 71.73      | 61.20       | mg/L  | 1    | 80                 | <0.00020      | 89    | 15  | 21 - 110    | 20        |
| Pyrene                 | 51.22      | 53.69       | mg/L  | 1    | 80                 | <0.00020      | 64    | 4   | 22 - 100    | 20        |
| Benzo(a)anthracene     | 59.56      | 59.66       | mg/L  | 1    | 80                 | <0.00020      | 74    | 0   | 30 - 99     | 20        |
| Chrysene               | 43.72      | 43.86       | mg/L  | 1    | 80                 | <0.00020      | 54    | 0   | 27 - 108    | 20        |
| Benzo(b)fluoranthene   | 50.96      | 48.95       | mg/L  | 1    | 80                 | <0.00020      | 63    | 4   | 19 - 102    | 20        |
| Benzo(k)fluoranthene   | 57.13      | 56.97       | mg/L  | 1    | 80                 | <0.00020      | 71    | 0   | 35 - 103    | 20        |
| Benzo(a)pyrene         | 52.11      | 49.83       | mg/L  | 1    | 80                 | <0.00020      | 65    | 4   | 24 - 105    | 20        |
| Indeno(1,2,3-cd)pyrene | 50.61      | 49.83       | mg/L  | 1    | 80                 | <0.00020      | 63    | 1   | 22 - 108    | 20        |
| Dibenzo(a,h)anthracene | 35.94      | 34.04       | mg/L  | 1    | 80                 | <0.00020      | 44    | 5   | 23 - 77     | 20        |
| Benzo(g,h,i)perylene   | 45.39      | 47.77       | mg/L  | 1    | 80                 | <0.00020      | 56    | 5   | 19 - 119    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|------------------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| Nitrobenzene-d5  | 59.84      | 60.33       | mg/L  | 1        | 80           | 74        | 75         | 35 - 114        |
| 2-Fluorobiphenyl | 61.23      | 60.89       | mg/L  | 1        | 80           | 76        | 76         | 43 - 116        |
| Terphenyl-d14    | 37.98      | 41.59       | mg/L  | 1        | 80           | 47        | 51         | 33 - 141        |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC20321

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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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0967                 | 96                          | 85 - 115                      | 5/15/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.1                    | 100                         | 85 - 115                      | 5/15/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.0989                 | 98                          | 85 - 115                      | 5/15/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0976                 | 97                          | 85 - 115                      | 5/15/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.288                  | 96                          | 85 - 115                      | 5/15/02          |

ICV (1)      QCBatch:    QC20321

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0931                 | 93                          | 85 - 115                      | 5/15/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0964                 | 96                          | 85 - 115                      | 5/15/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.0965                 | 96                          | 85 - 115                      | 5/15/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0981                 | 98                          | 85 - 115                      | 5/15/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.292                  | 97                          | 85 - 115                      | 5/15/02          |

CCV (1)      QCBatch:    QC21024

| 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                    | 63.88                  | 106                         | 80 - 120                      | 5/19/02          |
| Acenaphthylene         |      | mg/L  | 60                    | 64.09                  | 106                         | 80 - 120                      | 5/19/02          |
| Acenaphthene           |      | mg/L  | 60                    | 63.94                  | 106                         | 80 - 120                      | 5/19/02          |
| Fluorene               |      | mg/L  | 60                    | 58.28                  | 97                          | 80 - 120                      | 5/19/02          |
| Phenanthrene           |      | mg/L  | 60                    | 62.90                  | 104                         | 80 - 120                      | 5/19/02          |
| Anthracene             |      | mg/L  | 60                    | 63.00                  | 105                         | 80 - 120                      | 5/19/02          |
| Fluoranthene           |      | mg/L  | 60                    | 58.82                  | 98                          | 80 - 120                      | 5/19/02          |
| Pyrene                 |      | mg/L  | 60                    | 54.92                  | 91                          | 80 - 120                      | 5/19/02          |
| Benzo(a)anthracene     |      | mg/L  | 60                    | 61.19                  | 101                         | 80 - 120                      | 5/19/02          |
| Chrysene               |      | mg/L  | 60                    | 64.67                  | 107                         | 80 - 120                      | 5/19/02          |
| Benzo(b)fluoranthene   |      | mg/L  | 60                    | 49.99                  | 83                          | 80 - 120                      | 5/19/02          |
| Benzo(k)fluoranthene   |      | mg/L  | 60                    | 60.56                  | 100                         | 80 - 120                      | 5/19/02          |
| Benzo(a)pyrene         |      | mg/L  | 60                    | 53.67                  | 89                          | 80 - 120                      | 5/19/02          |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60                    | 53.08                  | 88                          | 80 - 120                      | 5/19/02          |
| Dibenzo(a,h)anthracene |      | mg/L  | 60                    | 51.59                  | 85                          | 80 - 120                      | 5/19/02          |
| Benzo(g,h,i)perylene   |      | mg/L  | 60                    | 49.94                  | 83                          | 80 - 120                      | 5/19/02          |
| Nitrobenzene-d5        |      | mg/L  | 60                    | 67.14                  | 111                         | 80 - 120                      | 5/19/02          |
| 2-Fluorobiphenyl       |      | mg/L  | 60                    | 70.94                  | 118                         | 80 - 120                      | 5/19/02          |
| Terphenyl-d14          |      | mg/L  | 60                    | 55.47                  | 92                          | 80 - 120                      | 5/19/02          |

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 6 Lubbock, Texas 79424  
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1 (800) 378 1296

Company Name: Enacon Services Inc

Phone #: 915-570-8726  
Fax #: 915-684-7587

Address: 306 West 6th, Suite 312, Midland, Tx 79701

Contact Person: Jeffrey Kindley

Invoice to: Equivia Services  
If different from above: Atn: Kyle Landrenew

Project #: EQ-110

Project Location: Monument, Lea County, New Mexico

Project Name: 300 110

Sampler Signature: John Hendrix

Project Name: 300 110

Project Name: 300 110

Project Name: 300 110

Project Name: 300 110

Project Name: 300 110

Project Name: 300 110

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## ANALYSIS REQUEST

(Circle or Specify Method No.)

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
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## REMARKS:

\* Any TPH (Duo/Gro) that is  
Z 100 ppm total is to  
be further analyzed for  
SCALP TPH (Duo/Gro)  
4/14 PIP

| LAB USE ONLY | DATE | TIME |
|--------------|------|------|
|              |      |      |
|              |      |      |
|              |      |      |
|              |      |      |

Carrier # 103-511-701

Received by: John Kindley Date: 5/14/02 Time: 0700

Received by: John Kindley Date: 5/14/02 Time: 0700

Received by: John Kindley Date: 5/14/02 Time: 0700

Received by: John Kindley Date: 5/14/02 Time: 0700

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Received by: John Kindley Date: 5/14/02 Time: 0700

Received by: John Kindley Date: 5/14/02 Time: 0700

Received by: John Kindley Date: 5/14/02 Time: 0700

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

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424  
Tel (806) 794-1296 Fax (806) 794-1298  
1 (800) 378-1296

Company Name: Environ Services Inc Phone #: 915-570-8726  
Address: 306 West Wall, Suite 1312, Midland, Tx 79701 Fax #: 915-684-7587  
Contact Person: Jeffrey Kindley  
Invoice to: Environ Services  
(if different from above) Kyle Henderson  
Project #: EQ-110 Project Name: Incident # 300110  
Project Location: Monument, Lea County, New Mexico Sampler Signature: John Hendrix

| LAB<br>(LAB USE ONLY) | FIELD CODE              | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |      |     |      | SAMPLING |      |
|-----------------------|-------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------|-----|------|----------|------|
|                       |                         |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO3 | ICE | NONE | DATE     | TIME |
|                       | MW-1                    | 1            | 1.5L          | ✓      |      |     |        |                     |      | X   | ✓    | 05/13/02 | 1250 |
|                       | MW-1                    | 2            | 40ml          | ✓      |      |     |        | ✓                   |      | X   |      | 05/13/02 | 1250 |
|                       | MW-2                    | 1            | 1.5L          | ✓      |      |     |        |                     |      | X   | ✓    | 05/13/02 | 1344 |
|                       | MW-2                    | 2            | 40ml          | ✓      |      |     |        | ✓                   |      | X   |      | 05/13/02 | 1344 |
|                       | MW-3 + per Jeff 6/13/02 | 1            | 1.5L          | ✓      |      |     |        |                     |      | X   | ✓    | 05/13/02 | 1535 |
|                       | MW-3 +                  | 2            | 40ml          | ✓      |      |     |        | ✓                   |      | X   |      | 05/13/02 | 1535 |
|                       | MW-5                    | 1            | 1.5L          | ✓      |      |     |        |                     |      | X   | ✓    | 05/13/02 | 1605 |
|                       | MW-5                    | 2            | 40ml          | ✓      |      |     |        | ✓                   |      | X   |      | 05/13/02 | 1605 |

Relinquished by: Jeffrey Kindley Date: May 14 2002 Time: 0700 Received by: Helen Shelton Date: 5/14/02 Time: 0700  
Relinquished by: Helen Shelton Date: 5/14/02 Time: 1830 Received by: Helen Shelton Date: 5/14/02 Time: 1830  
Relinquished by: Helen Shelton Date: 5/14/02 Time: 1830 Received by: Helen Shelton Date: 5/14/02 Time: 1830

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

### ANALYSIS REQUEST

(Circle or Specify Method No.)

|                                             |   |
|---------------------------------------------|---|
| PAH 8270                                    | ✓ |
| TPH                                         | ✓ |
| MTBE 8020/602                               | ✓ |
| BTEX 8020/602                               | ✓ |
| 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. 8240/8260/824                    | ✓ |
| GC/MS Semi. Vol. 8270/625                   | ✓ |
| PCBs 8080/608                               | ✓ |
| Pest. 8080/608                              | ✓ |
| BOD, TSS, PH                                | ✓ |
| Turn Around Time if different from standard | ✓ |

REMARKS:  
LAB USE ONLY  
Headspace  
Tent  
Logging Review

Carrier # Raymond 113-861-7119

TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: May 21, 2002 Order Number: A02051619  
EQ-110 300110Page Number: 1 of 1  
Monument, New Mexico

## Summary Report

Jeff Kindley  
Enercon Services Inc.  
306 W. Wall Suite 1312  
Midland, Tx. 79701

Report Date: May 21, 2002

Order ID Number: A02051619

Project Number: EQ-110  
Project Name: 300110  
Project Location: Monument, New Mexico

| Sample | Description   | Matrix | Date Taken | Time Taken | Date Received |
|--------|---------------|--------|------------|------------|---------------|
| 197159 | SB-1 (15-17') | Soil   | 5/14/02    | 10:24      | 5/16/02       |
| 197160 | SB-1 (30-32') | Soil   | 5/14/02    | 11:15      | 5/16/02       |
| 197161 | MW-3          | Water  | 5/14/02    | 12:45      | 5/16/02       |

0 This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

| Sample - Field Code    | BTEX          |               |                    |                    |                  | TPH DRO   | TPH GRO   |
|------------------------|---------------|---------------|--------------------|--------------------|------------------|-----------|-----------|
|                        | Benzene (ppm) | Toluene (ppm) | Ethylbenzene (ppm) | M,P,O-Xylene (ppm) | Total BTEX (ppm) | DRO (ppm) | GRO (ppm) |
| 197159 - SB-1 (15-17') | <0.010        | <0.010        | <0.010             | 0.0146             | 0.0146           | <50.0     | <1        |
| 197160 - SB-1 (30-32') | <0.010        | <0.010        | <0.010             | <0.010             | <0.010           | <50       | <1        |
| 197161 - MW-3          | 0.0042        | <0.001        | <0.001             | <0.001             | 0.0042           | -         | -         |

## Sample: 197161 - MW-3

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

This is only a summary. Please, refer to the complete report package for quality control data.

## Analytical and Quality Control Report

Jeff Kindley  
Enercon Services Inc.  
306 W. Wall Suite 1312  
Midland, Tx. 79701

Report Date: May 21, 2002

Order ID Number: A02051619

Project Number: EQ-110  
Project Name: 300110  
Project Location: Monument, New Mexico

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 |
|--------|---------------|--------|------------|------------|---------------|
| 197159 | SB-1 (15-17') | Soil   | 5/14/02    | 10:24      | 5/16/02       |
| 197160 | SB-1 (30-32') | Soil   | 5/14/02    | 11:15      | 5/16/02       |
| 197161 | MW-3          | Water  | 5/14/02    | 12:45      | 5/16/02       |

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. Note: the RDL is equal to MQL for all organic analytes including TPH. The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Report Date: May 21, 2002  
EQ-110

Order Number: A02051619  
300110

Page Number: 2 of 11  
Monument, New Mexico

## Analytical Report

Sample: 197159 - SB-1 (15-17')

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC20381 Date Analyzed: 5/16/02  
Analyst: CG Preparation Method: S 5035 Prep Batch: PB19475 Date Prepared: 5/16/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.010 | mg/Kg | 10       | 0.001 |
| Toluene      |      | <0.010 | mg/Kg | 10       | 0.001 |
| Ethylbenzene |      | <0.010 | mg/Kg | 10       | 0.001 |
| M,P,O-Xylene |      | 0.0146 | mg/Kg | 10       | 0.001 |
| Total BTEX   |      | 0.0146 | mg/Kg | 10       | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.857  | mg/Kg | 10       | 1            | 85               | 70 - 130        |
| 4-BFB     |      | 0.719  | mg/Kg | 10       | 1            | 71               | 70 - 130        |

Sample: 197159 - SB-1 (15-17')

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC20372 Date Analyzed: 5/16/02  
Analyst: MM Preparation Method: 3550 B Prep Batch: PB19467 Date Prepared: 5/16/02

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50.0  | mg/Kg | 1        | 50  |

| Surrogate     | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane |      | 136    | mg/Kg | 1        | 150          | 91               | 70 - 130        |

Sample: 197159 - SB-1 (15-17')

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC20382 Date Analyzed: 5/16/02  
Analyst: CG Preparation Method: 5035 Prep Batch: PB19475 Date Prepared: 5/16/02

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 1.25   | mg/Kg | 10       | 0.10         | 125              | 70 - 130        |
| 4-BFB     |      | 0.921  | mg/Kg | 10       | 0.10         | 92               | 70 - 130        |

Sample: 197160 - SB-1 (30-32')

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC20381 Date Analyzed: 5/16/02  
Analyst: CG Preparation Method: S 5035 Prep Batch: PB19475 Date Prepared: 5/16/02

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| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.010 | mg/Kg | 10       | 0.001 |
| Toluene      |      | <0.010 | mg/Kg | 10       | 0.001 |
| Ethylbenzene |      | <0.010 | mg/Kg | 10       | 0.001 |
| M,P,O-Xylene |      | <0.010 | mg/Kg | 10       | 0.001 |
| Total BTEX   |      | <0.010 | mg/Kg | 10       | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.806  | mg/Kg | 10       | 1            | 80               | 70 - 130        |
| 4-BFB     |      | 0.731  | mg/Kg | 10       | 1            | 73               | 70 - 130        |

Sample: 197160 - SB-1 (30-32')

Analysis: TPH DRO    Analytical Method: Mod. 8015B    QC Batch: QC20372    Date Analyzed: 5/16/02  
Analyst: MM    Preparation Method: 3550 B    Prep Batch: PB19467    Date Prepared: 5/16/02

| Param | Flag | Result | Units | Dilution | RDL |
|-------|------|--------|-------|----------|-----|
| DRO   |      | <50    | mg/Kg | 1        | 50  |

| Surrogate     | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane |      | 132    | mg/Kg | 1        | 150          | 88               | 70 - 130        |

Sample: 197160 - SB-1 (30-32')

Analysis: TPH GRO    Analytical Method: 8015B    QC Batch: QC20382    Date Analyzed: 5/16/02  
Analyst: CG    Preparation Method: 5035    Prep Batch: PB19475    Date Prepared: 5/16/02

| Param | Flag | Result | Units | Dilution | RDL  |
|-------|------|--------|-------|----------|------|
| GRO   |      | <1     | mg/Kg | 10       | 0.10 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 1.22   | mg/Kg | 10       | 0.10         | 122              | 70 - 130        |
| 4-BFB     |      | 0.853  | mg/Kg | 10       | 0.10         | 85               | 70 - 130        |

Sample: 197161 - MW-3

Analysis: BTEX    Analytical Method: S 8021B    QC Batch: QC20364    Date Analyzed: 5/16/02  
Analyst: CG    Preparation Method: S 5030B    Prep Batch: PB19462    Date Prepared: 5/16/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | 0.0042 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | 0.0042 | mg/L  | 1        | 0.001 |

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| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0799 | mg/L  | 1        | 0.10         | 80               | 70 - 130        |
| 4-BFB     |      | 0.0779 | mg/L  | 1        | 0.10         | 78               | 70 - 130        |

Sample: 197161 - MW-3

Analysis: PAH      Analytical Method: S 8270C      QC Batch: QC20489      Date Analyzed: 5/19/02  
Analyst: RC      Preparation Method: E 3510C      Prep Batch: PB19488      Date Prepared: 5/19/02

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 62.71  | mg/L  | 1        | 80           | 78               | 35 - 114        |
| 2-Fluorobiphenyl |      | 62.98  | mg/L  | 1        | 80           | 78               | 43 - 116        |
| Terphenyl-d14    |      | 23.83  | mg/L  | 1        | 80           | 29               | 33 - 141        |

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### Quality Control Report Method Blank

Method Blank      QCBatch:    QC20364

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <0.001  | mg/L  | 0.001           |
| Toluene      |      | <0.001  | mg/L  | 0.001           |
| Ethylbenzene |      | <0.001  | mg/L  | 0.001           |
| M,P,O-Xylene |      | <0.001  | mg/L  | 0.001           |
| Total BTEX   |      | <0.001  | mg/L  | 0.001           |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0833 | mg/L  | 1        | 0.10         | 83               | 70 - 130        |
| 4-BFB     |      | 0.0824 | mg/L  | 1        | 0.10         | 82               | 70 - 130        |

Method Blank      QCBatch:    QC20372

| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| DRO   |      | <50.0   | mg/Kg | 50              |

| Surrogate     | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---------------|------|--------|-------|----------|--------------|------------------|-----------------|
| n-Triacontane |      | 132    | mg/Kg | 1        | 150          | 88               | 70 - 130        |

Method Blank      QCBatch:    QC20381

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <0.010  | mg/Kg | 0.001           |
| Toluene      |      | <0.010  | mg/Kg | 0.001           |
| Ethylbenzene |      | <0.010  | mg/Kg | 0.001           |
| M,P,O-Xylene |      | <0.010  | mg/Kg | 0.001           |
| Total BTEX   |      | <0.010  | mg/Kg | 0.001           |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.964  | mg/Kg | 10       | 1            | 96               | 70 - 130        |
| 4-BFB     |      | 0.842  | mg/Kg | 10       | 1            | 84               | 70 - 130        |

Method Blank      QCBatch:    QC20382

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| Param | Flag | Results | Units | Reporting Limit |
|-------|------|---------|-------|-----------------|
| GRO   |      | <1      | mg/Kg | 0.10            |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.997  | mg/Kg | 10       | 0.10         | 100              | 70 - 130        |
| 4-BFB     |      | 0.993  | mg/Kg | 10       | 0.10         | 99               | 70 - 130        |

Method Blank QCBatch: QC20489

| Param                  | Flag | Results | Units | Reporting Limit |
|------------------------|------|---------|-------|-----------------|
| Naphthalene            |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthylene         |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthene           |      | <0.0002 | mg/L  | 0.0002          |
| Fluorene               |      | <0.0002 | mg/L  | 0.0002          |
| Phenanthrene           |      | <0.0002 | mg/L  | 0.0002          |
| Anthracene             |      | <0.0002 | mg/L  | 0.0002          |
| Fluoranthene           |      | <0.0002 | mg/L  | 0.0002          |
| Pyrene                 |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 0.0002          |
| Chrysene               |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 0.0002          |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 0.0002          |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 0.0002          |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 56.26  | mg/L  | 1        | 80           | 70               | 35 - 114        |
| 2-Fluorobiphenyl |      | 54.88  | mg/L  | 1        | 80           | 68               | 43 - 116        |
| Terphenyl-d14    |      | 43.06  | mg/L  | 1        | 80           | 53               | 33 - 141        |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC20364

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| MTBE         | 0.0851     | 0.0906      | mg/L  | 1    | 0.10               | <0.001        | 85    | 6   | 70 - 130    | 20        |
| Benzene      | 0.0827     | 0.0891      | mg/L  | 1    | 0.10               | <0.001        | 83    | 7   | 70 - 130    | 20        |
| Toluene      | 0.0776     | 0.0854      | mg/L  | 1    | 0.10               | <0.001        | 78    | 10  | 70 - 130    | 20        |
| Ethylbenzene | 0.0773     | 0.0851      | mg/L  | 1    | 0.10               | <0.001        | 77    | 10  | 70 - 130    | 20        |
| M,P,O-Xylene | 0.242      | 0.260       | mg/L  | 1    | 0.30               | <0.001        | 81    | 7   | 70 - 130    | 20        |

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Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.0806     | 0.0885      | mg/L  | 1        | 0.10         | 81        | 88         | 70 - 130        |
| 4-BFB     | 0.0833     | 0.0896      | mg/L  | 1        | 0.10         | 83        | 90         | 70 - 130        |

### Laboratory Control Spikes

QCBatch: QC20372

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| DRO   | 238        | 254         | mg/Kg | 1    | 250                | <50.0         | 95    | 6   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate     | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|---------------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| n-Triacontane | 134        | 132         | mg/Kg | 1        | 150          | 89        | 88         | 70 - 130        |

### Laboratory Control Spikes

QCBatch: QC20381

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| MTBE         | 0.949      | 0.984       | mg/Kg | 10   | 1                  | <0.010        | 94    | 3   | 70 - 130    | 20        |
| Benzene      | 0.976      | 0.988       | mg/Kg | 10   | 1                  | <0.010        | 97    | 1   | 70 - 130    | 20        |
| Toluene      | 0.957      | 0.969       | mg/Kg | 10   | 1                  | <0.010        | 95    | 1   | 70 - 130    | 20        |
| Ethylbenzene | 0.951      | 0.892       | mg/Kg | 10   | 1                  | <0.010        | 95    | 6   | 70 - 130    | 20        |
| M,P,O-Xylene | 2.97       | 3.07        | mg/Kg | 10   | 3                  | <0.010        | 99    | 3   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.887      | 0.939       | mg/Kg | 10       | 1            | 88        | 93         | 70 - 130        |
| 4-BFB     | 0.912      | 0.856       | mg/Kg | 10       | 1            | 91        | 85         | 70 - 130        |

### Laboratory Control Spikes

QCBatch: QC20382

| Param | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | 9.36       | 8.58        | mg/Kg | 10   | 1                  | <1            | 94    | 8   | 80 - 120    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.891      | 0.892       | mg/Kg | 10       | 0.10         | 89        | 89         | 70 - 130        |
| 4-BFB     | 1.06       | 1.06        | mg/Kg | 10       | 0.10         | 106       | 106        | 70 - 130        |

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### Laboratory Control Spikes

QCBatch: QC20489

| Param                  | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|------------------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Naphthalene            | 51.12      | 51.64       | mg/L  | 1    | 80                 | <0.0002       | 63    | 1   | 16 - 96     | 20        |
| Acenaphthylene         | 57.5       | 58.58       | mg/L  | 1    | 80                 | <0.0002       | 71    | 1   | 20 - 110    | 20        |
| Acenaphthene           | 55.65      | 57.07       | mg/L  | 1    | 80                 | <0.0002       | 69    | 2   | 18 - 108    | 20        |
| Fluorene               | 58.7       | 59.56       | mg/L  | 1    | 80                 | <0.0002       | 73    | 1   | 22 - 102    | 20        |
| Phenanthrene           | 63.65      | 61.33       | mg/L  | 1    | 80                 | <0.0002       | 79    | 3   | 25 - 103    | 20        |
| Anthracene             | 64.81      | 62.23       | mg/L  | 1    | 80                 | <0.0002       | 81    | 4   | 22 - 110    | 20        |
| Fluoranthene           | 71.73      | 61.2        | mg/L  | 1    | 80                 | <0.0002       | 89    | 15  | 21 - 110    | 20        |
| Pyrene                 | 51.22      | 53.69       | mg/L  | 1    | 80                 | <0.0002       | 64    | 4   | 22 - 100    | 20        |
| Benzo(a)anthracene     | 59.56      | 59.66       | mg/L  | 1    | 80                 | <0.0002       | 74    | 0   | 30 - 99     | 20        |
| Chrysene               | 43.72      | 43.86       | mg/L  | 1    | 80                 | <0.0002       | 54    | 0   | 27 - 108    | 20        |
| Benzo(b)fluoranthene   | 50.95      | 48.95       | mg/L  | 1    | 80                 | <0.0002       | 63    | 4   | 19 - 102    | 20        |
| Benzo(k)fluoranthene   | 57.13      | 56.97       | mg/L  | 1    | 80                 | <0.0002       | 71    | 0   | 35 - 103    | 20        |
| Benzo(a)pyrene         | 52.11      | 49.83       | mg/L  | 1    | 80                 | <0.0002       | 65    | 4   | 24 - 105    | 20        |
| Indeno(1,2,3-cd)pyrene | 50.61      | 49.83       | mg/L  | 1    | 80                 | <0.0002       | 63    | 1   | 22 - 108    | 20        |
| Dibenzo(a,h)anthracene | 35.94      | 34.04       | mg/L  | 1    | 80                 | <0.0002       | 44    | 5   | 23 - 77     | 20        |
| Benzo(g,h,i)perylene   | 45.39      | 47.77       | mg/L  | 1    | 80                 | <0.0002       | 56    | 5   | 19 - 119    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|------------------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| Nitrobenzene-d5  | 59.84      | 60.33       | mg/L  | 1        | 80           | 74        | 75         | 35 - 114        |
| 2-Fluorobiphenyl | 61.23      | 60.89       | mg/L  | 1        | 80           | 76        | 76         | 43 - 116        |
| Terphenyl-d14    | 37.98      | 41.59       | mg/L  | 1        | 80           | 47        | 51         | 33 - 141        |

## Quality Control Report Matrix Spikes and Duplicate Spikes

### Matrix Spikes

QCBatch: QC20372

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| DRO   | 248       | 250        | mg/Kg | 1    | 250                | <50.0         | 99    | 1   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate     | MS Result | MSD Result | Units | Dilution | Spike Amount | MS % Rec | MSD % Rec | Recovery Limits |
|---------------|-----------|------------|-------|----------|--------------|----------|-----------|-----------------|
| n-Triacontane | 127       | 129        | mg/Kg | 1        | 150          | 85       | 86        | 70 - 130        |

### Matrix Spikes

QCBatch: QC20381

| Param   | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|---------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Benzene | 0.83      | 0.817      | mg/Kg | 10   | 1                  | <0.010        | 83    | 1   | 70 - 130    | 20        |

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| Param        | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Toluene      | 0.826     | 0.767      | mg/Kg | 10   | 1                  | <0.010        | 82    | 7   | 70 - 130    | 20        |
| Ethylbenzene | 0.782     | 0.819      | mg/Kg | 10   | 1                  | <0.010        | 78    | 4   | 70 - 130    | 20        |
| M,P,O-Xylene | 2.54      | 2.5        | mg/Kg | 10   | 3                  | 0.0146        | 84    | 1   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dilution | Spike Amount | MS % Rec | MSD % Rec | Recovery Limits |
|-----------|-----------|------------|-------|----------|--------------|----------|-----------|-----------------|
| TFT       | 0.845     | 0.834      | mg/Kg | 10       | 1            | 84       | 83        | 70 - 130        |
| 4-BFB     | 0.734     | 0.728      | mg/Kg | 10       | 1            | 73       | 72        | 70 - 130        |

Matrix Spikes QCBatch: QC20382

| Param | MS Result | MSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|-------|-----------|------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| GRO   | 9.05      | 8.79       | mg/Kg | 10   | 1                  | <1            | 90    | 2   | 80 - 120    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dilution | Spike Amount | MS % Rec | MSD % Rec | Recovery Limits |
|-----------|-----------|------------|-------|----------|--------------|----------|-----------|-----------------|
| TFT       | 0.905     | 0.89       | mg/Kg | 10       | 0.10         | 90       | 89        | 70 - 130        |
| 4-BFB     | 0.901     | 0.896      | mg/Kg | 10       | 0.10         | 90       | 90        | 70 - 130        |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC20364

| Param        | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|--------------|------|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| MTBE         |      | mg/L  | 0.10            | 0.0895           | 89                    | 85 - 115                | 5/16/02       |
| Benzene      |      | mg/L  | 0.10            | 0.0895           | 89                    | 85 - 115                | 5/16/02       |
| Toluene      |      | mg/L  | 0.10            | 0.085            | 85                    | 85 - 115                | 5/16/02       |
| Ethylbenzene |      | mg/L  | 0.10            | 0.086            | 86                    | 85 - 115                | 5/16/02       |
| M,P,O-Xylene |      | mg/L  | 0.30            | 0.2657           | 88                    | 85 - 115                | 5/16/02       |

CCV (2) QCBatch: QC20364

Report Date: May 21, 2002  
EQ-110

Order Number: A02051619  
300110

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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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0917                 | 91                          | 85 - 115                      | 5/16/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0917                 | 91                          | 85 - 115                      | 5/16/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.0878                 | 87                          | 85 - 115                      | 5/16/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0866                 | 86                          | 85 - 115                      | 5/16/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.266                  | 88                          | 85 - 115                      | 5/16/02          |

ICV (1)      QCBatch:    QC20364

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.101                  | 101                         | 85 - 115                      | 5/16/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0965                 | 96                          | 85 - 115                      | 5/16/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.095                  | 95                          | 85 - 115                      | 5/16/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0934                 | 93                          | 85 - 115                      | 5/16/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.279                  | 93                          | 85 - 115                      | 5/16/02          |

CCV (1)      QCBatch:    QC20372

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 258                    | 103                         | 75 - 125                      | 5/16/02          |

ICV (1)      QCBatch:    QC20372

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| DRO   |      | mg/Kg | 250                   | 242                    | 96                          | 75 - 125                      | 5/16/02          |

CCV (1)      QCBatch:    QC20381

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0988                 | 98                          | 85 - 115                      | 5/16/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0984                 | 98                          | 85 - 115                      | 5/16/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.0914                 | 91                          | 85 - 115                      | 5/16/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0898                 | 89                          | 85 - 115                      | 5/16/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.292                  | 97                          | 85 - 115                      | 5/16/02          |

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EQ-110

Order Number: A02051619  
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ICV (1) QCBatch: QC20381

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0987                 | 98                          | 85 - 115                      | 5/16/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0961                 | 96                          | 85 - 115                      | 5/16/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.09320                | 93                          | 85 - 115                      | 5/16/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0966                 | 96                          | 85 - 115                      | 5/16/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.287                  | 95                          | 85 - 115                      | 5/16/02          |

CCV (1) QCBatch: QC20382

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 1.04                   | 104                         | 85 - 115                      | 5/16/02          |

ICV (1) QCBatch: QC20382

| 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 |
|-------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| GRO   |      | mg/Kg | 1                     | 0.893                  | 89                          | 85 - 115                      | 5/16/02          |

CCV (1) QCBatch: QC20489

| 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                    | 63.88                  | 106                         | 80 - 120                      | 5/19/02          |
| Acenaphthylene         |      | mg/L  | 60                    | 64.09                  | 106                         | 80 - 120                      | 5/19/02          |
| Acenaphthene           |      | mg/L  | 60                    | 63.94                  | 106                         | 80 - 120                      | 5/19/02          |
| Fluorene               |      | mg/L  | 60                    | 58.28                  | 97                          | 80 - 120                      | 5/19/02          |
| Phenanthrene           |      | mg/L  | 60                    | 62.9                   | 104                         | 80 - 120                      | 5/19/02          |
| Anthracene             |      | mg/L  | 60                    | 63.00                  | 105                         | 80 - 120                      | 5/19/02          |
| Fluoranthene           |      | mg/L  | 60                    | 58.82                  | 98                          | 80 - 120                      | 5/19/02          |
| Pyrene                 |      | mg/L  | 60                    | 54.92                  | 91                          | 80 - 120                      | 5/19/02          |
| Benzo(a)anthracene     |      | mg/L  | 60                    | 61.19                  | 101                         | 80 - 120                      | 5/19/02          |
| Chrysene               |      | mg/L  | 60                    | 64.67                  | 107                         | 80 - 120                      | 5/19/02          |
| Benzo(b)fluoranthene   |      | mg/L  | 60                    | 49.99                  | 83                          | 80 - 120                      | 5/19/02          |
| Benzo(k)fluoranthene   |      | mg/L  | 60                    | 60.56                  | 100                         | 80 - 120                      | 5/19/02          |
| Benzo(a)pyrene         |      | mg/L  | 60                    | 53.67                  | 89                          | 80 - 120                      | 5/19/02          |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60                    | 53.08                  | 88                          | 80 - 120                      | 5/19/02          |
| Dibenzo(a,h)anthracene |      | mg/L  | 60                    | 51.59                  | 85                          | 80 - 120                      | 5/19/02          |
| Benzo(g,h,i)perylene   |      | mg/L  | 60                    | 49.94                  | 83                          | 80 - 120                      | 5/19/02          |
| Nitrobenzene-d5        |      | mg/L  | 60                    | 67.14                  | 111                         | 80 - 120                      | 5/19/02          |
| 2-Fluorobiphenyl       |      | mg/L  | 60                    | 70.94                  | 118                         | 80 - 120                      | 5/19/02          |
| Terphenyl-d14          |      | mg/L  | 60                    | 55.47                  | 92                          | 80 - 120                      | 5/19/02          |

1 Aberdeen Avenue, Ste. 9  
Lubbock, Texas 79424  
Tel (806) 794-1296  
Fax (806) 794-1298  
1 (800) 378-1296

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

(Circle or Specify Method No.)

any Name: Envision Services Inc.  
(Street, City, Zip)  
306 West Wall, Suite 1312, Midland, Tx 79701 915-684-7587  
Phone #: 915-570-8726  
Fax #:  
Contact Person: Jeffrey Kinsley  
Name to: Envision Services  
(rent from above) Kyle Landureau  
Project Name: John Hendrix  
Incident #: 300110  
Project #: EQ-110  
Sampler Signature: John Hendrix  
Location: 11

[illegible]

|               |             |       |                            |         |       |
|---------------|-------------|-------|----------------------------|---------|-------|
| Issued by:    | Date:       | Time: | Received by:               | Date:   | Time: |
| ms kindly     | May 13 2002 | 0700  | Wendy Shelton              | 5/13/02 | 0700  |
| Issued by:    | Date:       | Time: | Received by:               | Date:   | Time: |
| Wendy Shelton | 5/13/02     | 1830  |                            |         |       |
| Issued by:    | Date:       | Time: | Received at Laboratory by: | Date:   | Time: |
|               |             |       | Wendy Shelton              | 5/14/02 | 1700  |

LAB USE ONLY

REMARKS: 5/30 P/F Any sample with combined TPH DEQ/GAO of  $\geq 100$  ppm run additional analysis for SPLP TPH on that sample.

Thanks, Jeff Kinsley

Carrier # Greyhound 1103 5661 770 4

1951 RELEASE UNDER E.O. 14176

6 samples-HS

ORIGINAL COPY

Initial of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

06234-38

# TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424  
Tel (806) 794 1296 Fax (806) 794 1298  
I (800) 378 1296

Company Name: Emerson Services Inc. Phone #: 915-570-8726  
Address: 306 West Wall, Suite 1312, Midland, TX 79701 Fax #: 915-684-7587  
Contact Person: Jeffrey Kindley  
Invoice to: Equiva Services  
(If different from above) Attn: Kyle Landrenew  
Project #: EQ-110 Incident #: 300110  
Project Name: John Hendrix

Project Location: Monument, Lea County, New Mexico  
Sampler Signature: Jeffrey Kindley

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | MATRIX |     |        |     | PRESERVATIVE METHOD |     |      |  | SAMPLING |      |
|-------------------------|------------|--------------|--------|-----|--------|-----|---------------------|-----|------|--|----------|------|
|                         |            |              | WATER  | AIR | SLUDGE | HCL | HNO3                | ICE | NONE |  | DATE     | TIME |
| 32234                   | MW-1       | 2            | 40ml ✓ |     |        | ✓   |                     |     |      |  | 8/23/02  | 1045 |
|                         | MW-1       | 1            | 1.5L ✓ |     |        |     |                     |     | ✓    |  | 8/23/02  | 1045 |
| 35                      | MW-2       | 2            | 40ml ✓ |     |        | ✓   |                     |     |      |  | 8/23/02  | 1100 |
|                         | MW-2       | 1            | 1.5L ✓ |     |        |     |                     |     | ✓    |  | 8/23/02  | 1100 |
| 36                      | MW-3       | 2            | 40ml ✓ |     |        | ✓   |                     |     |      |  | 8/23/02  | 1100 |
|                         | MW-3       | 1            | 1.5L ✓ |     |        |     |                     |     | ✓    |  | 8/23/02  | 1110 |
| 37                      | MW-4       | 2            | 40ml ✓ |     |        | ✓   |                     |     |      |  | 8/23/02  | 1130 |
|                         | MW-4       | 1            | 1.5L ✓ |     |        |     |                     |     | ✓    |  | 8/23/02  | 1130 |
| 38                      | MW-5       | 2            | 40ml ✓ |     |        | ✓   |                     |     |      |  | 8/23/02  | 1145 |
|                         | MW-5       | 1            | 1.5L ✓ |     |        |     |                     |     | ✓    |  | 8/23/02  | 1145 |

Relinquished by: Jeffrey Kindley Date: August 23, 2002 Time: 1700  
Relinquished by: Jeffrey Kindley Date: 8/23/02 Time: 1830  
Received by: Jeffrey Kindley Date: 8/23/02 Time: 1700  
Received by: Patel T-H Date: 8/24/02 Time: 11:00 AM  
Received at Laboratory by: Patel T-H Date: 8/24/02 Time: 11:00 AM

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 15 samples-HS

## CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #: FD082016

| ANALYSIS REQUEST<br>(Circle or Specify Method No.) |     |          |                                      |                                     |                |                     |     |                          |                           |                |                |
|----------------------------------------------------|-----|----------|--------------------------------------|-------------------------------------|----------------|---------------------|-----|--------------------------|---------------------------|----------------|----------------|
| MTBE 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. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 8080/608 |
| ✓                                                  | ✓   | ✓        | ✓                                    | ✓                                   | ✓              | ✓                   | ✓   | ✓                        | ✓                         | ✓              | ✓              |
| Turn Around Time if different from standard        |     |          |                                      |                                     |                |                     |     |                          |                           |                |                |

REMARKS:  
LAB USE ONLY  
Intact: Y / N  
Headspace: Y / N  
Temp: 4°C  
Log-In Review: MS  
Carrier #: Jeffrey Kindley  
9/9/02  
FAP

Report Date: September 9, 2002 Order Number: A02082616  
EQ-110 300110

Page Number: 1 of 3  
Monument, New Mexico

## Summary Report

Kyle Landreneau  
Equiva Kyle Landreneau  
PMB 284 40 FM 1960 West  
Houston, TX 77090

Report Date: September 9, 2002

Order ID Number: A02082616

Project: EQ-110  
TA Job Code: 300110  
Casualty Code: EQ-110  
Project Location: Monument, New Mexico  
Project Address:  
Enercon Services Inc. / Midland / Jeff Kindley

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 206234 | MW-1        | Water  | 8/24/02    | 10:45      | 8/24/02       |
| 206235 | MW-2        | Water  | 8/24/02    | 11:00      | 8/24/02       |
| 206236 | MW-3        | Water  | 8/24/02    | 11:10      | 8/24/02       |
| 206237 | MW-4        | Water  | 8/24/02    | 11:30      | 8/24/02       |
| 206238 | MW-5        | Water  | 8/24/02    | 11:45      | 8/24/02       |

0 This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

| Sample - Field Code | BTEx          |               |                    |                    |                  |
|---------------------|---------------|---------------|--------------------|--------------------|------------------|
|                     | Benzene (ppm) | Toluene (ppm) | Ethylbenzene (ppm) | M,P,O-Xylene (ppm) | Total BTEx (ppm) |
| 206234 - MW-1       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |
| 206235 - MW-2       | 0.0029        | <0.001        | <0.001             | <0.001             | 0.0029           |
| 206236 - MW-3       | 0.0026        | <0.001        | <0.001             | <0.001             | 0.0026           |
| 206237 - MW-4       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |
| 206238 - MW-5       | <0.001        | <0.001        | <0.001             | <0.001             | <0.001           |

### Sample: 206234 - MW-1

| Param                | Flag | Result  | Units |
|----------------------|------|---------|-------|
| Naphthalene          |      | <0.0002 | mg/L  |
| Acenaphthylene       |      | <0.0002 | mg/L  |
| Acenaphthene         |      | <0.0002 | mg/L  |
| Fluorene             |      | <0.0002 | mg/L  |
| Phenanthrene         |      | <0.0002 | mg/L  |
| Anthracene           |      | <0.0002 | mg/L  |
| Fluoranthene         |      | <0.0002 | mg/L  |
| Pyrene               |      | <0.0002 | mg/L  |
| Benzo(a)anthracene   |      | <0.0002 | mg/L  |
| Chrysene             |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene |      | <0.0002 | mg/L  |

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: September 9, 2002 Order Number: A02082616  
EQ-110 300110Page Number: 2 of 3  
Monument, New Mexico

Sample 206234 continued ...

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

## Sample: 206235 - MW-2

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

## Sample: 206236 - MW-3

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

Report Date: September 9, 2002 Order Number: A02082616  
EQ-110 300110Page Number: 3 of 3  
Monument, New Mexico**Sample: 206237 - MW-4**

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

**Sample: 206238 - MW-5**

| Param                  | Flag | Result  | Units |
|------------------------|------|---------|-------|
| Naphthalene            |      | <0.0002 | mg/L  |
| Acenaphthylene         |      | <0.0002 | mg/L  |
| Acenaphthene           |      | <0.0002 | mg/L  |
| Fluorene               |      | <0.0002 | mg/L  |
| Phenanthrene           |      | <0.0002 | mg/L  |
| Anthracene             |      | <0.0002 | mg/L  |
| Fluoranthene           |      | <0.0002 | mg/L  |
| Pyrene                 |      | <0.0002 | mg/L  |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  |
| Chrysene               |      | <0.0002 | mg/L  |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  |

# TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9  
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296  
El Paso, Texas 79932 888•588•3443  
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298  
915•585•3443 FAX 915•585•4944

## Analytical and Quality Control Report

Kyle Landreneau  
Equiva Kyle Landreneau  
PMB 284 40 FM 1960 West  
Houston, TX 77090

Report Date: September 9, 2002

Order ID Number: A02082616

Project: EQ-110  
TA Job Code: 300110  
Casualty Code: EQ-110  
Project Location: Monument, New Mexico  
Enercon Services Inc. / Midland / Jeff Kindley

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 |
|--------|-------------|--------|------------|------------|---------------|
| 206234 | MW-1        | Water  | 8/24/02    | 10:45      | 8/24/02       |
| 206235 | MW-2        | Water  | 8/24/02    | 11:00      | 8/24/02       |
| 206236 | MW-3        | Water  | 8/24/02    | 11:10      | 8/24/02       |
| 206237 | MW-4        | Water  | 8/24/02    | 11:30      | 8/24/02       |
| 206238 | MW-5        | Water  | 8/24/02    | 11:45      | 8/24/02       |

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. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.



Dr. Blair Leftwich, Director

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## Analytical Report

Sample: 206234 - MW-1

Analysis: BTEX      Analytical Method: S 8021B      QC Batch: QC23160      Date Analyzed: 8/27/02  
Analyst: CG      Preparation Method: S 5030B      Prep Batch: PB21737      Date Prepared: 8/27/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.096  | mg/L  | 1        | 0.10         | 96               | 70 - 130        |
| 4-BFB     |      | 0.0823 | mg/L  | 1        | 0.10         | 82               | 70 - 130        |

Sample: 206234 - MW-1

Analysis: PAH      Analytical Method: S 8270C      QC Batch: QC23256      Date Analyzed: 8/28/02  
Analyst: RC      Preparation Method: E 3510C      Prep Batch: PB21753      Date Prepared: 8/26/02

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 62.57  | mg/L  | 1        | 80           | 78               | 35 - 114        |
| 2-Fluorobiphenyl |      | 66.55  | mg/L  | 1        | 80           | 83               | 43 - 116        |
| Terphenyl-d14    |      | 45.97  | mg/L  | 1        | 80           | 57               | 33 - 141        |

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**Sample: 206235 - MW-2**

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23160 Date Analyzed: 8/27/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB21737 Date Prepared: 8/27/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | 0.0029 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | 0.0029 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.105  | mg/L  | 1        | 0.10         | 105              | 70 - 130        |
| 4-BFB     |      | 0.0909 | mg/L  | 1        | 0.10         | 91               | 70 - 130        |

**Sample: 206235 - MW-2**

Analysis: PAH Analytical Method: S 8270C QC Batch: QC23256 Date Analyzed: 8/28/02  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB21753 Date Prepared: 8/26/02

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 63.49  | mg/L  | 1        | 80           | 79               | 35 - 114        |
| 2-Fluorobiphenyl |      | 65.65  | mg/L  | 1        | 80           | 82               | 43 - 116        |
| Terphenyl-d14    |      | 42.24  | mg/L  | 1        | 80           | 56               | 33 - 141        |

**Sample: 206236 - MW-3**

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23160 Date Analyzed: 8/27/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB21737 Date Prepared: 8/27/02

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| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | 0.0026 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | 0.0026 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.101  | mg/L  | 1        | 0.10         | 101              | 70 - 130        |
| 4-BFB     |      | 0.0859 | mg/L  | 1        | 0.10         | 86               | 70 - 130        |

**Sample: 206236 - MW-3**

Analysis: PAH      Analytical Method: S 8270C      QC Batch: QC23256      Date Analyzed: 8/28/02  
Analyst: RC      Preparation Method: E 3510C      Prep Batch: PB21753      Date Prepared: 8/26/02

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 65.49  | mg/L  | 1        | 80           | 81               | 35 - 114        |
| 2-Fluorobiphenyl |      | 66.88  | mg/L  | 1        | 80           | 83               | 43 - 116        |
| Terphenyl-d14    |      | 44.35  | mg/L  | 1        | 80           | 55               | 33 - 141        |

**Sample: 206237 - MW-4**

Analysis: BTEX      Analytical Method: S 8021B      QC Batch: QC23160      Date Analyzed: 8/27/02  
Analyst: CG      Preparation Method: S 5030B      Prep Batch: PB21737      Date Prepared: 8/27/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |

Continued ...

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... Continued Sample: 206237 Analysis: BTEX

| Param      | Flag | Result | Units | Dilution | RDL   |
|------------|------|--------|-------|----------|-------|
| Total BTEX |      | <0.001 | mg/L  | 1        | 0.001 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.103  | mg/L  | 1        | 0.10         | 103              | 70 - 130        |
| 4-BFB     |      | 0.0883 | mg/L  | 1        | 0.10         | 88               | 70 - 130        |

Sample: 206237 - MW-4

Analysis: PAH Analytical Method: S 8270C QC Batch: QC23256 Date Analyzed: 8/28/02  
Analyst: RC Preparation Method: E 3510C Prep Batch: PB21753 Date Prepared: 8/26/02

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 65.15  | mg/L  | 1        | 80           | 81               | 35 - 114        |
| 2-Fluorobiphenyl |      | 64.14  | mg/L  | 1        | 80           | 80               | 43 - 116        |
| Terphenyl-d14    |      | 52.93  | mg/L  | 1        | 80           | 66               | 33 - 141        |

Sample: 206238 - MW-5

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23160 Date Analyzed: 8/27/02  
Analyst: CG Preparation Method: S 5030B Prep Batch: PB21737 Date Prepared: 8/27/02

| Param        | Flag | Result | Units | Dilution | RDL   |
|--------------|------|--------|-------|----------|-------|
| Benzene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Toluene      |      | <0.001 | mg/L  | 1        | 0.001 |
| Ethylbenzene |      | <0.001 | mg/L  | 1        | 0.001 |
| M,P,O-Xylene |      | <0.001 | mg/L  | 1        | 0.001 |
| Total BTEX   |      | <0.001 | mg/L  | 1        | 0.001 |

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| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.103  | mg/L  | 1        | 0.10         | 103              | 70 - 130        |
| 4-BFB     |      | 0.0867 | mg/L  | 1        | 0.10         | 87               | 70 - 130        |

**Sample: 206238 - MW-5**

Analysis: PAH      Analytical Method: S 8270C      QC Batch: QC23256      Date Analyzed: 8/28/02  
Analyst: RC      Preparation Method: E 3510C      Prep Batch: PB21753      Date Prepared: 8/26/02

| Param                  | Flag | Result  | Units | Dilution | RDL    |
|------------------------|------|---------|-------|----------|--------|
| Naphthalene            |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthylene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Acenaphthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluorene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Phenanthrene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Anthracene             |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Fluoranthene           |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Pyrene                 |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Chrysene               |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 1        | 0.0002 |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 1        | 0.0002 |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 38.29  | mg/L  | 1        | 80           | 47               | 35 - 114        |
| 2-Fluorobiphenyl |      | 37     | mg/L  | 1        | 80           | 46               | 43 - 116        |
| Terphenyl-d14    |      | 28.57  | mg/L  | 1        | 80           | 35               | 33 - 141        |

## Quality Control Report Method Blank

Method Blank      QCBatch:    QC23160

| Param        | Flag | Results | Units | Reporting Limit |
|--------------|------|---------|-------|-----------------|
| Benzene      |      | <0.001  | mg/L  | 0.001           |
| Toluene      |      | <0.001  | mg/L  | 0.001           |
| Ethylbenzene |      | <0.001  | mg/L  | 0.001           |
| M,P,O-Xylene |      | <0.001  | mg/L  | 0.001           |
| Total BTEX   |      | <0.001  | mg/L  | 0.001           |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|-----------|------|--------|-------|----------|--------------|------------------|-----------------|
| TFT       |      | 0.0966 | mg/L  | 1        | 0.10         | 97               | 70 - 130        |
| 4-BFB     |      | 0.0796 | mg/L  | 1        | 0.10         | 80               | 70 - 130        |

Method Blank      QCBatch:    QC23256

| Param                  | Flag | Results | Units | Reporting Limit |
|------------------------|------|---------|-------|-----------------|
| Naphthalene            |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthylene         |      | <0.0002 | mg/L  | 0.0002          |
| Acenaphthene           |      | <0.0002 | mg/L  | 0.0002          |
| Fluorene               |      | <0.0002 | mg/L  | 0.0002          |
| Phenanthrene           |      | <0.0002 | mg/L  | 0.0002          |
| Anthracene             |      | <0.0002 | mg/L  | 0.0002          |
| Fluoranthene           |      | <0.0002 | mg/L  | 0.0002          |
| Pyrene                 |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)anthracene     |      | <0.0002 | mg/L  | 0.0002          |
| Chrysene               |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(b)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(k)fluoranthene   |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(a)pyrene         |      | <0.0002 | mg/L  | 0.0002          |
| Indeno(1,2,3-cd)pyrene |      | <0.0002 | mg/L  | 0.0002          |
| Dibenzo(a,h)anthracene |      | <0.0002 | mg/L  | 0.0002          |
| Benzo(g,h,i)perylene   |      | <0.0002 | mg/L  | 0.0002          |

| Surrogate        | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|------------------|------|--------|-------|----------|--------------|------------------|-----------------|
| Nitrobenzene-d5  |      | 66.23  | mg/L  | 1        | 80           | 82               | 35 - 114        |
| 2-Fluorobiphenyl |      | 61.27  | mg/L  | 1        | 80           | 76               | 43 - 116        |
| Terphenyl-d14    |      | 66.16  | mg/L  | 1        | 80           | 82               | 33 - 141        |

## Quality Control Report Lab Control Spikes and Duplicate Spikes

# Laboratory Control Spikes

QCBatch: QC23160

| Param        | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|--------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| MTBE         | 0.0925     | 0.0884      | mg/L  | 1    | 0.10               | <0.001        | 92    | 4   | 70 - 130    | 20        |
| Benzene      | 0.0968     | 0.0985      | mg/L  | 1    | 0.10               | <0.001        | 97    | 2   | 70 - 130    | 20        |
| Toluene      | 0.095      | 0.0977      | mg/L  | 1    | 0.10               | <0.001        | 95    | 3   | 70 - 130    | 20        |
| Ethylbenzene | 0.0978     | 0.101       | mg/L  | 1    | 0.10               | <0.001        | 98    | 3   | 70 - 130    | 20        |
| M,P,O-Xylene | 0.286      | 0.293       | mg/L  | 1    | 0.30               | <0.001        | 95    | 2   | 70 - 130    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|-----------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| TFT       | 0.0958     | 0.095       | mg/L  | 1        | 0.10         | 96        | 95         | 70 - 130        |
| 4-BFB     | 0.0934     | 0.0943      | mg/L  | 1        | 0.10         | 93        | 94         | 70 - 130        |

# Laboratory Control Spikes

QCBatch: QC23256

| Param                  | LCS Result | LCSD Result | Units | Dil. | Spike Amount Added | Matrix Result | % Rec | RPD | % Rec Limit | RPD Limit |
|------------------------|------------|-------------|-------|------|--------------------|---------------|-------|-----|-------------|-----------|
| Naphthalene            | 67.76      | 65.43       | mg/L  | 1    | 80                 | <0.0002       | 84    | 3   | 16 - 96     | 20        |
| Acenaphthylene         | 74.19      | 71.3        | mg/L  | 1    | 80                 | <0.0002       | 92    | 3   | 20 - 110    | 20        |
| Acenaphthene           | 71.59      | 68.32       | mg/L  | 1    | 80                 | <0.0002       | 89    | 4   | 18 - 108    | 20        |
| Fluorene               | 72.21      | 69.4        | mg/L  | 1    | 80                 | <0.0002       | 90    | 3   | 22 - 102    | 20        |
| Phenanthrene           | 73.37      | 70.47       | mg/L  | 1    | 80                 | <0.0002       | 91    | 4   | 25 - 103    | 20        |
| Anthracene             | 76.66      | 72.95       | mg/L  | 1    | 80                 | <0.0002       | 95    | 4   | 22 - 110    | 20        |
| Fluoranthene           | 80.57      | 74.97       | mg/L  | 1    | 80                 | <0.0002       | 100   | 7   | 21 - 110    | 20        |
| Pyrene                 | 70.94      | 73.5        | mg/L  | 1    | 80                 | <0.0002       | 88    | 3   | 22 - 100    | 20        |
| Benzo(a)anthracene     | 76.64      | 75.41       | mg/L  | 1    | 80                 | <0.0002       | 95    | 1   | 30 - 99     | 20        |
| Chrysene               | 62.83      | 62.45       | mg/L  | 1    | 80                 | <0.0002       | 78    | 0   | 27 - 108    | 20        |
| Benzo(b)fluoranthene   | 73.85      | 71.89       | mg/L  | 1    | 80                 | <0.0002       | 92    | 2   | 19 - 102    | 20        |
| Benzo(k)fluoranthene   | 69.31      | 66.52       | mg/L  | 1    | 80                 | <0.0002       | 86    | 4   | 35 - 103    | 20        |
| Benzo(a)pyrene         | 73.35      | 72.01       | mg/L  | 1    | 80                 | <0.0002       | 91    | 1   | 24 - 105    | 20        |
| Indeno(1,2,3-cd)pyrene | 69.05      | 67.95       | mg/L  | 1    | 80                 | <0.0002       | 86    | 1   | 22 - 108    | 20        |
| Dibenzo(a,h)anthracene | 50.99      | 53.72       | mg/L  | 1    | 80                 | <0.0002       | 63    | 5   | 23 - 77     | 20        |
| Benzo(g,h,i)perylene   | 81.59      | 82.53       | mg/L  | 1    | 80                 | <0.0002       | 101   | 1   | 19 - 119    | 20        |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate        | LCS Result | LCSD Result | Units | Dilution | Spike Amount | LCS % Rec | LCSD % Rec | Recovery Limits |
|------------------|------------|-------------|-------|----------|--------------|-----------|------------|-----------------|
| Nitrobenzene-d5  | 80.94      | 78.45       | mg/L  | 1        | 80           | 101       | 98         | 35 - 114        |
| 2-Fluorobiphenyl | 79.77      | 76.72       | mg/L  | 1        | 80           | 99        | 95         | 43 - 116        |
| Terphenyl-d14    | 82.38      | 84.2        | mg/L  | 1        | 80           | 102       | 105        | 33 - 141        |

## Quality Control Report Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC23160

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.0958                 | 96                          | 85 - 115                      | 8/27/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0998                 | 100                         | 85 - 115                      | 8/27/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.098                  | 98                          | 85 - 115                      | 8/27/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0982                 | 98                          | 85 - 115                      | 8/27/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.291                  | 97                          | 85 - 115                      | 8/27/02          |

CCV (2)

QCBatch: QC23160

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.088                  | 88                          | 85 - 115                      | 8/27/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0893                 | 89                          | 85 - 115                      | 8/27/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.0865                 | 86                          | 85 - 115                      | 8/27/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0884                 | 88                          | 85 - 115                      | 8/27/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.26                   | 86                          | 85 - 115                      | 8/27/02          |

ICV (1)

QCBatch: QC23160

| 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 |
|--------------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| MTBE         |      | mg/L  | 0.10                  | 0.089                  | 89                          | 85 - 115                      | 8/27/02          |
| Benzene      |      | mg/L  | 0.10                  | 0.0966                 | 97                          | 85 - 115                      | 8/27/02          |
| Toluene      |      | mg/L  | 0.10                  | 0.0947                 | 95                          | 85 - 115                      | 8/27/02          |
| Ethylbenzene |      | mg/L  | 0.10                  | 0.0978                 | 98                          | 85 - 115                      | 8/27/02          |
| M,P,O-Xylene |      | mg/L  | 0.30                  | 0.284                  | 95                          | 85 - 115                      | 8/27/02          |

CCV (1)

QCBatch: QC23256

| 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                    | 57.79                  | 96                          | 80 - 120                      | 8/28/02          |
| Acenaphthylene       |      | mg/L  | 60                    | 57.22                  | 95                          | 80 - 120                      | 8/28/02          |
| Acenaphthene         |      | mg/L  | 60                    | 57.28                  | 95                          | 80 - 120                      | 8/28/02          |
| Fluorene             |      | mg/L  | 60                    | 56.8                   | 94                          | 80 - 120                      | 8/28/02          |
| Phenanthrene         |      | mg/L  | 60                    | 58.36                  | 97                          | 80 - 120                      | 8/28/02          |
| Anthracene           |      | mg/L  | 60                    | 58.59                  | 97                          | 80 - 120                      | 8/28/02          |
| Fluoranthene         |      | mg/L  | 60                    | 56.89                  | 94                          | 80 - 120                      | 8/28/02          |
| Pyrene               |      | mg/L  | 60                    | 55.86                  | 93                          | 80 - 120                      | 8/28/02          |
| Benzo(a)anthracene   |      | mg/L  | 60                    | 62.58                  | 104                         | 80 - 120                      | 8/28/02          |
| Chrysene             |      | mg/L  | 60                    | 57.69                  | 96                          | 80 - 120                      | 8/28/02          |
| Benzo(b)fluoranthene |      | mg/L  | 60                    | 71.02                  | 118                         | 80 - 120                      | 8/28/02          |
| Benzo(k)fluoranthene |      | mg/L  | 60                    | 50.82                  | 84                          | 80 - 120                      | 8/28/02          |

Continued ...

Report Date: September 9, 2002  
EQ-110

Order Number: A02082616  
300110

Page Number: 10 of 10  
Monument, New Mexico

... 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(a)pyrene         |      | mg/L  | 60                    | 59.55                  | 99                          | 80 - 120                      | 8/28/02          |
| Indeno(1,2,3-cd)pyrene |      | mg/L  | 60                    | 61.39                  | 102                         | 80 - 120                      | 8/28/02          |
| Dibenzo(a,h)anthracene |      | mg/L  | 60                    | 60.71                  | 101                         | 80 - 120                      | 8/28/02          |
| Benzo(g,h,i)perylene   |      | mg/L  | 60                    | 65.21                  | 108                         | 80 - 120                      | 8/28/02          |
| Nitrobenzene-d5        |      | mg/L  | 60                    | 63.21                  | 105                         | 80 - 120                      | 8/28/02          |
| 2-Fluorobiphenyl       |      | mg/L  | 60                    | 60.25                  | 100                         | 80 - 120                      | 8/28/02          |
| Terphenyl-d14          |      | mg/L  | 60                    | 58.45                  | 97                          | 80 - 120                      | 8/28/02          |

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10/16/02

ENERCON SERVICES, INC. 10014  
JEFFREY KINDLEY  
306 WESTWALL, SUITE 1312  
MIDLAND, TX 79701

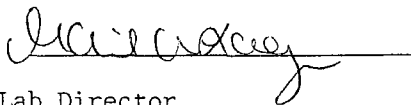
This report includes the analytical certificates of analysis for all samples listed below. These samples relate to your project EQ-110 JOHN HENDRIX. The Laboratory Project number is 304654.

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report.

| Sample Identification | Lab Number | Page 1<br>Collection Date |
|-----------------------|------------|---------------------------|
| MW-1                  | 02-A167484 | 10/ 9/02                  |
| MW-2                  | 02-A167485 | 10/ 9/02                  |
| MW-3                  | 02-A167486 | 10/ 9/02                  |
| MW-4                  | 02-A167487 | 10/ 9/02                  |
| MW-5                  | 02-A167488 | 10/ 9/02                  |

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

Report Approved By:



Report Date: 10/16/02

Paul E. Lane, Jr., Lab Director  
Michael H. Dunn, M.S., Technical Director  
Johnny A. Mitchell, Dir. Technical Serv.  
Eric S. Smith, Assistant Technical Director  
Roxanne L. Connor, Technical Services

Gail A. Lage, Technical Serv.  
Glenn L. Norton, Technical Serv.  
Kelly S. Comstock, Technical Serv.  
Pamela A. Langford, Technical Serv.

# TestAmerica

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## ANALYTICAL REPORT

ENERCON SERVICES, INC. 10014  
JEFFREY KINDLEY  
306 WESTWALL, SUITE 1312  
MIDLAND, TX 79701

Lab Number: 02-A167484  
Sample ID: MW-1  
Sample Type: Water  
Site ID: 300110

Project: EQ-110  
Project Name: JOHN HENDRIX  
Sampler: JEFFERY KINDLEY

Date Collected: 10/ 9/02  
Time Collected:  
Date Received: 10/11/02  
Time Received: 9:00  
Page: 1

| Analyte                | Result | Units | Report<br>Limit | Dil<br>Factor | Analysis<br>Date | Analysis<br>Time | Analyst  | Method | Batch |
|------------------------|--------|-------|-----------------|---------------|------------------|------------------|----------|--------|-------|
| *ORGANIC PARAMETERS*   |        |       |                 |               |                  |                  |          |        |       |
| Benzene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 11:17            | F.Gundi  | 8021B  | 4736  |
| Ethylbenzene           | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 11:17            | F.Gundi  | 8021B  | 4736  |
| Toluene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 11:17            | F.Gundi  | 8021B  | 4736  |
| Xylenes (Total)        | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 11:17            | F.Gundi  | 8021B  | 4736  |
| Naphthalene            | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Acenaphthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Anthracene             | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Fluoranthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Fluorene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Pyrene                 | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Benzo(a)anthracene     | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Benzo(a)pyrene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Benzo(b)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Benzo(k)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Chrysene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Dibenzo(a,h)anthracene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Indeno(1,2,3-cd)pyrene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Acenaphthylene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Benzo(g,h,i)perylene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Phenanthrene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 3:38             | R. Beard | 8270C  | 6203  |
| Total BTEX             | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 11:17            | F.Gundi  | 8270C  | 4736  |

Sample report continued . . .

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## ANALYTICAL REPORT

Laboratory Number: 02-A167484  
Sample ID: MW-1  
Project: EQ-110  
Page 2

### Sample Extraction Data

| Parameter | Wt/Vol<br>Extracted | Extract Vol | Date     | Time | Analyst  | Method   |
|-----------|---------------------|-------------|----------|------|----------|----------|
| BNA's     | 930. ml             | 1.0 ml      | 10/14/02 |      | M. Ricke | 3510/625 |

| Surrogate                 | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 102.       | 69. - 132.   |
| BNA Surr-Nitrobenzene-d5  | 128. #     | 40. - 127.   |
| BNA Surr-2-Fluorobiphenyl | 107.       | 42. - 113.   |
| BNA Surr-Terphenyl-d14    | 53.        | 41. - 129.   |

### LABORATORY COMMENTS:

ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

ENERCON SERVICES, INC. 10014  
JEFFREY KINDLEY  
306 WESTWALL, SUITE 1312  
MIDLAND, TX 79701

Lab Number: 02-A167485  
Sample ID: MW-2  
Sample Type: Water  
Site ID: 300110

Project: EQ-110  
Project Name: JOHN HENDRIX  
Sampler: JEFFERY KINDLEY

Date Collected: 10/ 9/02  
Time Collected:  
Date Received: 10/11/02  
Time Received: 9:00  
Page: 1

| Analyte                | Result | Units | Report<br>Limit | Dil<br>Factor | Analysis<br>Date | Analysis<br>Time | Analyst  | Method | Batch |
|------------------------|--------|-------|-----------------|---------------|------------------|------------------|----------|--------|-------|
| *ORGANIC PARAMETERS*   |        |       |                 |               |                  |                  |          |        |       |
| Benzene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:01            | F.Gundi  | 8021B  | 4736  |
| Ethylbenzene           | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:01            | F.Gundi  | 8021B  | 4736  |
| Toluene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:01            | F.Gundi  | 8021B  | 4736  |
| Xylenes (Total)        | 0.0011 | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:01            | F.Gundi  | 8021B  | 4736  |
| Naphthalene            | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Acenaphthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Anthracene             | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Fluoranthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Fluorene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Pyrene                 | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Benzo(a)anthracene     | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Benzo(a)pyrene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Benzo(b)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Benzo(k)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Chrysene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Dibenzo(a,h)anthracene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Indeno(1,2,3-cd)pyrene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Acenaphthylene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Benzo(g,h,i)perylene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Phenanthrene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 4:15             | R. Beard | 8270C  | 6203  |
| Total BTEX             | 0.0011 | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:01            | F.Gundi  | 8270C  | 4736  |

Sample report continued . . .

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## ANALYTICAL REPORT

Laboratory Number: 02-A167485  
Sample ID: MW-2  
Project: EQ-110  
Page 2

### Sample Extraction Data

| Parameter | Wt/Vol<br>Extracted | Extract Vol | Date     | Time | Analyst  | Method   |
|-----------|---------------------|-------------|----------|------|----------|----------|
| BNA's     | 910. ml             | 1.0 ml      | 10/14/02 |      | M. Ricke | 3510/625 |

| Surrogate                 | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 116.       | 69. - 132.   |
| BNA Surr-Nitrobenzene-d5  | 99.        | 40. - 127.   |
| BNA Surr-2-Fluorobiphenyl | 89.        | 42. - 113.   |
| BNA Surr-Terphenyl-d14    | 43.        | 41. - 129.   |

### LABORATORY COMMENTS:

ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

ENERCON SERVICES, INC. 10014  
JEFFREY KINDLEY  
306 WESTWALL, SUITE 1312  
MIDLAND, TX 79701

Lab Number: 02-A167486  
Sample ID: MW-3  
Sample Type: Water  
Site ID: 300110

Project: EQ-110  
Project Name: JOHN HENDRIX  
Sampler: JEFFERY KINDLEY

Date Collected: 10/ 9/02  
Time Collected:  
Date Received: 10/11/02  
Time Received: 9:00  
Page: 1

| Analyte                | Result | Units | Report<br>Limit | Dil<br>Factor | Analysis<br>Date | Analysis<br>Time | Analyst  | Method | Batch |
|------------------------|--------|-------|-----------------|---------------|------------------|------------------|----------|--------|-------|
| *ORGANIC PARAMETERS*   |        |       |                 |               |                  |                  |          |        |       |
| Benzene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:33            | F.Gundi  | 8021B  | 4736  |
| Ethylbenzene           | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:33            | F.Gundi  | 8021B  | 4736  |
| Toluene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:33            | F.Gundi  | 8021B  | 4736  |
| Xylenes (Total)        | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:33            | F.Gundi  | 8021B  | 4736  |
| Naphthalene            | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Acenaphthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Anthracene             | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Fluoranthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Fluorene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Pyrene                 | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Benzo(a)anthracene     | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Benzo(a)pyrene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Benzo(b)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Benzo(k)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Chrysene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Dibenzo(a,h)anthracene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Indeno(1,2,3-cd)pyrene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Acenaphthylene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Benzo(g,h,i)perylene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Phenanthrene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:07             | R. Beard | 8270C  | 6203  |
| Total BTEX             | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 13:33            | F.Gundi  | 8270C  | 4736  |

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A167486  
Sample ID: MW-3  
Project: EQ-110  
Page 2

### Sample Extraction Data

| Parameter | Wt/Vol<br>Extracted | Extract Vol | Date     | Time | Analyst  | Method   |
|-----------|---------------------|-------------|----------|------|----------|----------|
| BNA's     | 960. ml             | 1.0 ml      | 10/14/02 |      | M. Ricke | 3510/625 |

| Surrogate                 | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 108.       | 69. - 132.   |
| BNA Surr-Nitrobenzene-d5  | 119.       | 40. - 127.   |
| BNA Surr-2-Fluorobiphenyl | 102.       | 42. - 113.   |
| BNA Surr-Terphenyl-d14    | 36. #      | 41. - 129.   |

### LABORATORY COMMENTS:

ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

ENERCON SERVICES, INC. 10014  
JEFFREY KINDLEY  
306 WESTWALL, SUITE 1312  
MIDLAND, TX 79701

Lab Number: 02-A167487  
Sample ID: MW-4  
Sample Type: Water  
Site ID: 300110

Project: EQ-110  
Project Name: JOHN HENDRIX  
Sampler: JEFFERY KINDLEY

Date Collected: 10/ 9/02  
Time Collected:  
Date Received: 10/11/02  
Time Received: 9:00  
Page: 1

| Analyte                | Result | Units | Report<br>Limit | Dil<br>Factor | Analysis<br>Date | Analysis<br>Time | Analyst  | Method | Batch |
|------------------------|--------|-------|-----------------|---------------|------------------|------------------|----------|--------|-------|
| *ORGANIC PARAMETERS*   |        |       |                 |               |                  |                  |          |        |       |
| Benzene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:06            | F.Gundi  | 8021B  | 4736  |
| Ethylbenzene           | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:06            | F.Gundi  | 8021B  | 4736  |
| Toluene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:06            | F.Gundi  | 8021B  | 4736  |
| Xylenes (Total)        | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:06            | F.Gundi  | 8021B  | 4736  |
| Naphthalene            | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Acenaphthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Anthracene             | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Fluoranthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Fluorene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Pyrene                 | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Benzo(a)anthracene     | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Benzo(a)pyrene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Benzo(b)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Benzo(k)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Chrysene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Dibenzo(a,h)anthracene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Indeno(1,2,3-cd)pyrene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Acenaphthylene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Benzo(g,h,i)perylene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Phenanthrene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 6:45             | R. Beard | 8270C  | 6203  |
| Total BTEX             | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:06            | F.Gundi  | 8270C  | 4736  |

Sample report continued . . .

# TestAmerica

INCORPORATED

## ANALYTICAL REPORT

Laboratory Number: 02-A167487

Sample ID: MW-4

Project: EQ-110

Page 2

### Sample Extraction Data

| Parameter | Wt/Vol<br>Extracted | Extract Vol | Date     | Time | Analyst  | Method   |
|-----------|---------------------|-------------|----------|------|----------|----------|
| BNA's     | 960. ml             | 1.0 ml      | 10/14/02 |      | M. Ricke | 3510/625 |

| Surrogate                 | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 104.       | 69. - 132.   |
| BNA Surr-Nitrobenzene-d5  | 111.       | 40. - 127.   |
| BNA Surr-2-Fluorobiphenyl | 93.        | 42. - 113.   |
| BNA Surr-Terphenyl-d14    | 41.        | 41. - 129.   |

### LABORATORY COMMENTS:

- ND - Not detected at the report limit.
- B - Analyte was detected in the method blank.
- J - Estimated Value below Report Limit.
- E - Estimated Value above the calibration limit of the instrument.
- # - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

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## ANALYTICAL REPORT

ENERCON SERVICES, INC. 10014  
JEFFREY KINDLEY  
306 WESTWALL, SUITE 1312  
MIDLAND, TX 79701

Lab Number: 02-A167488  
Sample ID: MW-5  
Sample Type: Water  
Site ID: 300110

Project: EQ-110  
Project Name: JOHN HENDRIX  
Sampler: JEFFERY KINDLEY

Date Collected: 10/ 9/02  
Time Collected:  
Date Received: 10/11/02  
Time Received: 9:00  
Page: 1

| Analyte                | Result | Units | Report<br>Limit | Dil<br>Factor | Analysis<br>Date | Analysis<br>Time | Analyst  | Method | Batch |
|------------------------|--------|-------|-----------------|---------------|------------------|------------------|----------|--------|-------|
| *ORGANIC PARAMETERS*   |        |       |                 |               |                  |                  |          |        |       |
| Benzene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:39            | F.Gundi  | 8021B  | 4736  |
| Ethylbenzene           | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:39            | F.Gundi  | 8021B  | 4736  |
| Toluene                | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:39            | F.Gundi  | 8021B  | 4736  |
| Xylenes (Total)        | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:39            | F.Gundi  | 8021B  | 4736  |
| Naphthalene            | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Acenaphthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Anthracene             | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Fluoranthene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Fluorene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Pyrene                 | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Benzo(a)anthracene     | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Benzo(a)pyrene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Benzo(b)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Benzo(k)fluoranthene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Chrysene               | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Dibenzo(a,h)anthracene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Indeno(1,2,3-cd)pyrene | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Acenaphthylene         | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Benzo(g,h,i)perylene   | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Phenanthrene           | ND     | mg/l  | 0.0020          | 1.0           | 10/16/02         | 7:22             | R. Beard | 8270C  | 6203  |
| Total BTEX             | ND     | mg/l  | 0.0010          | 1.0           | 10/13/02         | 14:39            | F.Gundi  | 8270C  | 4736  |

Sample report continued . . .

# TestAmerica

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## ANALYTICAL REPORT

Laboratory Number: 02-A167488  
Sample ID: MW-5  
Project: EQ-110  
Page 2

### Sample Extraction Data

| Parameter | Wt/Vol<br>Extracted | Extract Vol | Date     | Time | Analyst  | Method   |
|-----------|---------------------|-------------|----------|------|----------|----------|
| BNA's     | 960. ml             | 1.0 ml      | 10/14/02 |      | M. Ricke | 3510/625 |

| Surrogate                 | % Recovery | Target Range |
|---------------------------|------------|--------------|
| BTEX/GRO Surr., a,a,a-TFT | 103.       | 69. - 132.   |
| BNA Surr-Nitrobenzene-d5  | 115.       | 40. - 127.   |
| BNA Surr-2-Fluorobiphenyl | 96.        | 42. - 113.   |
| BNA Surr-Terphenyl-d14    | 40. #      | 41. - 129.   |

### LABORATORY COMMENTS:

ND - Not detected at the report limit.  
B - Analyte was detected in the method blank.  
J - Estimated Value below Report Limit.  
E - Estimated Value above the calibration limit of the instrument.  
# - Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

# TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA  
Project Number: EQ-110  
Page: 1

## Matrix Spike Recovery

| Analyte                   | units      | Orig. Val. | MS Val | Spike Conc | Recovery | Target Range | Q.C. Batch | Spike Sample |
|---------------------------|------------|------------|--------|------------|----------|--------------|------------|--------------|
| **UST ANALYSIS**          |            |            |        |            |          |              |            |              |
| Benzene                   | mg/l       | 0.0035     | 0.0569 | 0.0500     | 107      | 74. - 129.   | 4736       | 02-A167477   |
| Toluene                   | mg/l       | 0.0024     | 0.0484 | 0.0500     | 92       | 74. - 128.   | 4736       | 02-A167477   |
| Ethylbenzene              | mg/l       | < 0.0010   | 0.0443 | 0.0500     | 89       | 75. - 128.   | 4736       | 02-A167477   |
| Xylenes (Total)           | mg/l       | < 0.0010   | 0.0927 | 0.100      | 93       | 72. - 126.   | 4736       | 02-A167477   |
| Naphthalene               | mg/l       | < 0.0010   | 0.0330 | 0.0500     | 66       | 32. - 101.   | 6203       | blank        |
| Acenaphthene              | mg/l       | < 0.0010   | 0.0370 | 0.0500     | 74       | 40. - 113.   | 6203       | blank        |
| Anthracene                | mg/l       | < 0.0010   | 0.0430 | 0.0500     | 86       | 48. - 122.   | 6203       | blank        |
| Fluoranthene              | mg/l       | < 0.0010   | 0.0420 | 0.0500     | 84       | 48. - 127.   | 6203       | blank        |
| Fluorene                  | mg/l       | < 0.0010   | 0.0400 | 0.0500     | 80       | 45. - 120.   | 6203       | blank        |
| Pyrene                    | mg/l       | < 0.0010   | 0.0370 | 0.0500     | 74       | 49. - 127.   | 6203       | blank        |
| Benzo(a)anthracene        | mg/l       | < 0.0010   | 0.0380 | 0.0500     | 76       | 49. - 126.   | 6203       | blank        |
| Benzo(a)pyrene            | mg/l       | < 0.0010   | 0.0400 | 0.0500     | 80       | 48. - 126.   | 6203       | blank        |
| Benzo(b)fluoranthene      | mg/l       | < 0.0010   | 0.0410 | 0.0500     | 82       | 45. - 127.   | 6203       | blank        |
| Benzo(k)fluoranthene      | mg/l       | < 0.0010   | 0.0380 | 0.0500     | 76       | 46. - 134.   | 6203       | blank        |
| Chrysene                  | mg/l       | < 0.0010   | 0.0410 | 0.0500     | 82       | 48. - 126.   | 6203       | blank        |
| Dibenzo(a,h)anthracene    | mg/l       | < 0.0010   | 0.0390 | 0.0500     | 78       | 31. - 149.   | 6203       | blank        |
| Indeno(1,2,3-cd)pyrene    | mg/l       | < 0.0010   | 0.0380 | 0.0500     | 76       | 26. - 147.   | 6203       | blank        |
| Acenaphthylene            | mg/l       | < 0.0010   | 0.0400 | 0.0500     | 80       | 41. - 112.   | 6203       | blank        |
| Benzo(g,h,i)perylene      | mg/l       | < 0.0010   | 0.0360 | 0.0500     | 72       | 26. - 152.   | 6203       | blank        |
| Phenanthrene              | mg/l       | < 0.0010   | 0.0420 | 0.0500     | 84       | 47. - 122.   | 6203       | blank        |
| BTEX/GRO Surr., a,a,a-TFT | % Recovery |            |        |            | 105      | 69. - 132.   | 4736       |              |
| BNA Surr-Nitrobenzene-d5  | % Rec      |            |        |            | 112      | 40. - 127.   | 6203       |              |
| BNA Surr-2-Fluorobiphenyl | % Rec      |            |        |            | 101      | 42. - 113.   | 6203       |              |
| BNA Surr-Terphenyl-d14    | % Rec      |            |        |            | 101      | 41. - 129.   | 6203       |              |

## Matrix Spike Duplicate

| Analyte            | units | Orig. Val. | Duplicate | RPD | Limit | Q.C. Batch |
|--------------------|-------|------------|-----------|-----|-------|------------|
| **UST PARAMETERS** |       |            |           |     |       |            |

Project QC continued . . .

# TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA  
Project Number: EQ-110  
Page: 2

## Matrix Spike Duplicate

| Analyte                   | units      | Orig. Val. | Duplicate | RPD   | Limit | Q.C. Batch |
|---------------------------|------------|------------|-----------|-------|-------|------------|
| Benzene                   | mg/l       | 0.0569     | 0.0584    | 2.60  | 15.   | 4736       |
| Toluene                   | mg/l       | 0.0484     | 0.0508    | 4.84  | 15.   | 4736       |
| Ethylbenzene              | mg/l       | 0.0443     | 0.0467    | 5.27  | 15.   | 4736       |
| Xylenes (Total)           | mg/l       | 0.0927     | 0.0966    | 4.12  | 19.   | 4736       |
| Naphthalene               | mg/l       | 0.0330     | 0.0290    | 12.90 | 44.   | 6203       |
| Acenaphthene              | mg/l       | 0.0370     | 0.0340    | 8.45  | 42.   | 6203       |
| Anthracene                | mg/l       | 0.0430     | 0.0400    | 7.23  | 35.   | 6203       |
| Fluoranthene              | mg/l       | 0.0420     | 0.0400    | 4.88  | 38.   | 6203       |
| Fluorene                  | mg/l       | 0.0400     | 0.0380    | 5.13  | 38.   | 6203       |
| Pyrene                    | mg/l       | 0.0370     | 0.0350    | 5.56  | 36.   | 6203       |
| Benzo(a)anthracene        | mg/l       | 0.0380     | 0.0360    | 5.41  | 37.   | 6203       |
| Benzo(a)pyrene            | mg/l       | 0.0400     | 0.0390    | 2.53  | 37.   | 6203       |
| Benzo(b)fluoranthene      | mg/l       | 0.0410     | 0.0390    | 5.00  | 38.   | 6203       |
| Benzo(k)fluoranthene      | mg/l       | 0.0380     | 0.0380    | 0.00  | 36.   | 6203       |
| Chrysene                  | mg/l       | 0.0410     | 0.0390    | 5.00  | 38.   | 6203       |
| Dibenzo(a,h)anthracene    | mg/l       | 0.0390     | 0.0390    | 0.00  | 45.   | 6203       |
| Indeno(1,2,3-cd)pyrene    | mg/l       | 0.0380     | 0.0380    | 0.00  | 43.   | 6203       |
| Acenaphthylene            | mg/l       | 0.0400     | 0.0360    | 10.53 | 39.   | 6203       |
| Benzo(g,h,i)perylene      | mg/l       | 0.0360     | 0.0360    | 0.00  | 47.   | 6203       |
| Phenanthrene              | mg/l       | 0.0420     | 0.0390    | 7.41  | 38.   | 6203       |
| BTEX/GRO Surr., a,a,a-TFT | % Recovery |            | 102.      |       |       | 4736       |
| BNA Surr-Nitrobenzene-d5  | % Rec      |            | 95.       |       |       | 6203       |
| BNA Surr-2-Fluorobiphenyl | % Rec      |            | 84.       |       |       | 6203       |
| BNA Surr-Terphenyl-d14    | % Rec      |            | 94.       |       |       | 6203       |

## Laboratory Control Data

| Analyte            | units | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|--------------------|-------|------------|--------------|------------|--------------|------------|
| **UST PARAMETERS** |       |            |              |            |              |            |
| Benzene            | mg/l  | 0.100      | 0.0954       | 95         | 74 - 124     | 4736       |
| Toluene            | mg/l  | 0.100      | 0.0903       | 90         | 74 - 121     | 4736       |

Project QC continued . . .

# TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA  
Project Number: EQ-110  
Page: 3

## Laboratory Control Data

| Analyte                   | units      | Known Val. | Analyzed Val | % Recovery | Target Range | Q.C. Batch |
|---------------------------|------------|------------|--------------|------------|--------------|------------|
| Ethylbenzene              | mg/l       | 0.100      | 0.0889       | 89         | 75 - 123     | 4736       |
| Xylenes (Total)           | mg/l       | 0.200      | 0.173        | 86         | 72 - 120     | 4736       |
| Naphthalene               | mg/l       | 0.0500     | 0.0350       | 70         | 32 - 101     | 6203       |
| Acenaphthene              | mg/l       | 0.0500     | 0.0370       | 74         | 41 - 113     | 6203       |
| Anthracene                | mg/l       | 0.0500     | 0.0410       | 82         | 50 - 120     | 6203       |
| Fluoranthene              | mg/l       | 0.0500     | 0.0420       | 84         | 50 - 126     | 6203       |
| Fluorene                  | mg/l       | 0.0500     | 0.0400       | 80         | 46 - 120     | 6203       |
| Pyrene                    | mg/l       | 0.0500     | 0.0370       | 74         | 51 - 126     | 6203       |
| Benzo(a)anthracene        | mg/l       | 0.0500     | 0.0370       | 74         | 50 - 126     | 6203       |
| Benzo(a)pyrene            | mg/l       | 0.0500     | 0.0410       | 82         | 50 - 126     | 6203       |
| Benzo(b)fluoranthene      | mg/l       | 0.0500     | 0.0420       | 84         | 47 - 125     | 6203       |
| Benzo(k)fluoranthene      | mg/l       | 0.0500     | 0.0400       | 80         | 47 - 133     | 6203       |
| Chrysene                  | mg/l       | 0.0500     | 0.0410       | 82         | 49 - 126     | 6203       |
| Dibenzo(a,h)anthracene    | mg/l       | 0.0500     | 0.0400       | 80         | 35 - 146     | 6203       |
| Indeno(1,2,3-cd)pyrene    | mg/l       | 0.0500     | 0.0400       | 80         | 31 - 145     | 6203       |
| Acenaphthylene            | mg/l       | 0.0500     | 0.0400       | 80         | 42 - 112     | 6203       |
| Benzo(g,h,i)perylene      | mg/l       | 0.0500     | 0.0380       | 76         | 30 - 150     | 6203       |
| Phenanthrene              | mg/l       | 0.0500     | 0.0410       | 82         | 48 - 121     | 6203       |
| BTEX/GRO Surr., a,a,a-TFT | % Recovery |            |              | 103        | 69 - 132     | 4736       |
| BNA Surr-Nitrobenzene-d5  | % Rec      |            |              | 113        | 40 - 127     | 6203       |
| BNA Surr-2-Fluorobiphenyl | % Rec      |            |              | 100        | 42 - 113     | 6203       |
| BNA Surr-Terphenyl-d14    | % Rec      |            |              | 100        | 41 - 129     | 6203       |

## Blank Data

| Analyte            | Blank Value | Units | Q.C. Batch | Date Analyzed | Time Analyzed |
|--------------------|-------------|-------|------------|---------------|---------------|
| **UST PARAMETERS** |             |       |            |               |               |
| Benzene            | < 0.0005    | mg/l  | 4736       | 10/13/02      | 1:31          |
| Toluene            | < 0.0006    | mg/l  | 4736       | 10/13/02      | 1:31          |
| Ethylbenzene       | < 0.0006    | mg/l  | 4736       | 10/13/02      | 1:31          |
| Xylenes (Total)    | < 0.0010    | mg/l  | 4736       | 10/13/02      | 1:31          |

Project QC continued . . .

# TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA  
Project Number: EQ-110  
Page: 4

## Blank Data

| Analyte                | Blank Value | Units | Q.C. Batch | Analysis Date | Analysis Time |
|------------------------|-------------|-------|------------|---------------|---------------|
| Naphthalene            | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Acenaphthene           | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Anthracene             | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Fluoranthene           | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Fluorene               | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Pyrene                 | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Benzo(a)anthracene     | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Benzo(a)pyrene         | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Benzo(b)fluoranthene   | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Benzo(k)fluoranthene   | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Chrysene               | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Dibenzo(a,h)anthracene | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Indeno(1,2,3-cd)pyrene | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Acenaphthylene         | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Benzo(g,h,i)perylene   | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |
| Phenanthrene           | < 0.0010    | mg/l  | 6203       | 10/15/02      | 18:15         |

## Blank Data

| Analyte                   | Blank Value | Units      | Q.C. Batch | Date Analyzed | Time Analyzed |
|---------------------------|-------------|------------|------------|---------------|---------------|
| **UST PARAMETERS**        |             |            |            |               |               |
| BTEX/GRO Surr., a,a,a-TFT | 102.        | % Recovery | 4736       | 10/13/02      | 1:31          |
| BNA Surr-Nitrobenzene-d5  | 108.        | % Rec      | 6203       | 10/15/02      | 18:15         |
| BNA Surr-2-Fluorobiphenyl | 93.         | % Rec      | 6203       | 10/15/02      | 18:15         |
| BNA Surr-Terphenyl-d14    | 103.        | % Rec      | 6203       | 10/15/02      | 18:15         |

# - Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 304654

# TestAmerica

Nashville Division  
2960 Foster Creighton  
Nashville, TN 37204

Phone: 615-726-0177  
Fax: 615-726-3404

To assist us in using the proper analytical methods,  
is this work being conducted for regulatory purposes?  
Compliance Monitoring

Client Name: Envision Services Inc Client #: 1197  
Address: 306 West Wall, Suite 1312  
City/State/Zip Code: Midland, TX 79701  
Project Manager: Jeff Kindley  
Telephone Number: 915-570-8726 Fax: 915-684-7587  
Sampler Name: (Print Name) Jeff Kindley  
Sampler Signature: Jeff Kindley

Project Name: John Hendrix  
Project #: EO-110 Incident #: 300110  
State: TX  
Site/Location ID: Lea County  
Report To: Jeff Kindley  
Invoice To: Ryld Landmark / Equiva Services Inc.  
Quote #: \_\_\_\_\_ PO#: \_\_\_\_\_

| TAT | Standard | Rush (surcharges may apply) | Date Needed: | Fax Results: Y N | SAMPLE ID | Date Sampled | Time Sampled | G = Grab, C = Composite | Field Filtered | Matrix Preservation & # of Containers |                     |                  |                |                 |               | Other (Specify) | REMARKS |
|-----|----------|-----------------------------|--------------|------------------|-----------|--------------|--------------|-------------------------|----------------|---------------------------------------|---------------------|------------------|----------------|-----------------|---------------|-----------------|---------|
|     |          |                             |              |                  |           |              |              |                         |                | SL - Sludge                           | DW - Drinking Water | GW - Groundwater | S - Soil/Solid | MW - Wastewater | Specify Other |                 |         |
|     |          |                             |              |                  | MW-1      | 10/10/02     |              | G                       |                |                                       |                     |                  |                |                 |               |                 | 107484  |
|     |          |                             |              |                  | MW-2      | 10/10/02     |              | G                       |                |                                       |                     |                  |                |                 |               |                 | 85      |
|     |          |                             |              |                  | MW-3      | 10/10/02     |              | G                       |                |                                       |                     |                  |                |                 |               |                 | 86      |
|     |          |                             |              |                  | MW-4      | 10/10/02     |              | G                       |                |                                       |                     |                  |                |                 |               |                 | 87      |
|     |          |                             |              |                  | MW-5      | 10/10/02     |              | G                       |                |                                       |                     |                  |                |                 |               |                 | 88      |

Special Instructions: Normal Turnaround

Relinquished By: Jeff Kindley Date: 10/10/02 Time: 900

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

LABORATORY COMMENTS:

Init Lab Temp: \_\_\_\_\_ Rec Lab Temp: \_\_\_\_\_

Custody Seals: Y N N N/A  
Bottles Supplied by Test America: Y N

Method of Shipment: \_\_\_\_\_

# TESTAMERICA, INC.-NASHVILLE

## COOLER RECEIPT FORM

Client: ENERCON SERVICES, INC BC# 304654

Cooler Received On: 10/11/02 And Opened On: 10/11/02 By: Ben Wright

[Signature]  
(Signature)

1. Temperature of Cooler when opened 1.0 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES ☒ NO ☐ N/A
  - a. If yes, how many, what kind and where: NA
  - b. Were the seals intact, signed, and dated correctly?.....YES ☐ NO ☒ N/A
3. Were custody seals on containers and intact?.....☒ NO ☐ YES ☐ N/A
4. Were custody papers inside cooler?.....☒ YES ☐ NO ☐ N/A
5. Were custody papers properly filled out (ink, signed, etc)?.....☒ YES ☐ NO ☐ N/A
6. Did you sign the custody papers in the appropriate place?.....☒ YES ☐ NO ☐ N/A
7. What kind of packing material used? ☒ Bubblewrap ☐ Peanuts ☐ Vermiculite ☐ Other ☐ None
8. Was sufficient ice used (if appropriate)?.....☒ YES ☐ NO ☐ N/A
9. Did all bottles arrive in good condition (unbroken)?.....☒ YES ☐ NO ☐ N/A
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....☒ YES ☐ NO ☐ N/A
11. Did all bottle labels and tags agree with custody papers?.....☒ YES ☐ NO ☐ N/A
12. Were correct bottles used for the analysis requested?.....☒ YES ☐ NO ☐ N/A
13. a. Were VOA vials received?.....☒ YES ☐ NO ☐ N/A
  - b. Was there any observable head space present in any VOA vial?.....☒ NO ☐ YES ☐ N/A
14. Was sufficient amount of sample sent in each bottle?.....☒ YES ☐ NO ☐ N/A
15. Were correct preservatives used?.....☒ YES ☐ NO ☐ N/A  
If not, record standard ID of preservative used here \_\_\_\_\_
16. Was residual chlorine present?.....NO ☐ YES ☒ N/A
17. Corrective action taken, if necessary:

See attached for resolution

# SAMPLE NONCONFORMANCE/COC REVISION FORM

**TestAmerica**

Nashville Division

ACCT NO. ?

DATE RECEIVED 10/11/02

COMPANY ENERCON SERVICES

|                                      |             |                           |                      |
|--------------------------------------|-------------|---------------------------|----------------------|
| Relinquished by:                     | Date/Time:  | Received by:              | Date/Time:           |
| <u>BD</u> <u>10/11/02</u>            | <u>1300</u> | <u>SR Nancy R</u>         | <u>10/11/02 1310</u> |
| Relinquished by:                     | Date/Time:  | Received by:              | Date/Time:           |
| <u>[Signature]</u> <u>10/11/2002</u> | <u>1440</u> | <u>BD</u> <u>10/11/02</u> | <u>1441</u>          |
| Relinquished by:                     | Date/Time:  | Received by:              | Date/Time:           |
|                                      |             |                           |                      |

**PROBLEM(S):**

FOC/TOC?

METALS LIST?

TPH METHOD?

TCLP WHAT?

EDB METHOD?

HERB LIST- LONG OR SHORT?

NEED LIST OF COMPOUNDS:

8260 INSTEAD OF 8021?

TEMPERATURE UPON RECEIPT

SATURDAY DELIVERY MARKED?

ICE -- OR-- NO ICE??

FIELD TEST-- OUT OF HOLD

NO COC - PLEASE FAX

NO ANALYSIS REQUESTED

DOCUMENTATION LEVEL?

OUT OF HOLDING TIME-- TEST

OTHER: NO CLIENT #

RESOLUTION: 10014 [Signature] 10/11/2002

| CONTACTED | DATE/TIME | EMAIL | LEFT MESSAGE |
|-----------|-----------|-------|--------------|
|           |           |       |              |
|           |           |       |              |
|           |           |       |              |