

**3R – 338**

**PIT CLOSURE  
REQUEST**

**02 / 06 / 2009**

3R-338



Environmental Project Services  
188 County Road 4900  
Bloomfield, NM 87413

RECEIVED

2009 FEB 17 PM 12 49

February 6, 2009

Mr. Glen Von Gonten  
NM Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: PATTERSON A COM #1A PIT REMEDIATION AND CLOSURE REPORT**

Dear Mr. Von Gonten:

Enclosed please find information on remediation and closure activities associated with the unlined surface impoundment located at the Patterson A Com #1A well site. Public Service Company of New Mexico (PNM) previously operated the site and initiated pit closure activities in May 1998. The site operation later became the responsibility of Williams upon purchase of Gas Company of New Mexico (GCNM) from PNM. Upon expiration of PNM's retained environmental liabilities associated with the sale, Williams agreed to complete necessary closure work. As such, the enclosed information reflects activities of both PNM and Williams, with documents prepared by both parties.

**Site History**

Excavation of petroleum hydrocarbon-impacted soil beneath the unlined surface impoundment was conducted in May 1998 and included removal of 576 cubic yards of soil. Excavation was terminated at a depth of 18 feet due to concern for excavation stability and limitations created by production equipment. Organic vapor levels were found to exceed 1,000 ppm on the floor of the excavation and thus PNM attempted to define the vertical extent of hydrocarbon impact. During this effort, ground water was discovered at approximately 75 feet bgs and sampling indicated the presence of BTEX contamination. PNM notified the NMOCD of the ground water impact through correspondence dated March 12, 1999.

Following the discovery of hydrocarbon contaminated ground water, four ground water monitoring wells were installed (MW-1, MW-2, MW-3, MW-4) in the first half of 1999. During the first sampling of the source area well (MW-2) in 1999, benzene (7,100 ug/l), toluene (17,000 ug/l), and xylene (5,300 ug/l) concentrations all exceeded NMWQCC standards. Early monitoring results showed fluctuating BTEX concentrations each quarter. The four original monitoring wells were placed to intercept contamination south of the former PNM pit and with the assumption of probable ground water flow toward and parallel to Farmington Glade.

New wells were installed in 2000 in order to further delineate the contaminant plume. MW-5 was installed to determine lateral extent of contamination and MW-6 was installed as a new down gradient sentinel well. MW -7 was installed up gradient of the former pit location and served to determine the relative extent of contamination thought to be associated with a producer pit closed earlier.

**Site Hydrogeology**

The Patterson A Com #1A well site is located in Unit G, Section 2, Township 31N, Range 12W of San Juan County, New Mexico (Figure 1). The site is located on the alluvial flood plain of the Farmington Glade, a ephemeral wash tributary to the San Juan River. Depth to ground water is approximately 73 feet below ground surface (bgs) flowing generally to the southeast with a hydraulic gradient of 0.004 to 0.006.

Monitoring wells extend to a depth of approximately 80 feet bgs where bedrock was encountered in three wells. All wells were constructed with 15 foot screened intervals that span the water table. Site lithology was reported as interbedded silty and clayey sands with a relatively thin saturated zone (approximately seven feet) composed of fine to coarse sands, underlain by weathered bedrock. The water table elevation was observed to fluctuate by several inches over the course of monitoring.

### Monitoring Results

Concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) were analyzed in water samples collected from March 1999 through September 2008. The initial monitoring network consisted of four wells identified as MW-1 through MW-4. Additional wells MW-5, MW-6, and MW-7 were installed in 2000. Both MW-5 and MW-6 never demonstrated any BTEX impacts and MW-7 had very low level BTEX for only the first four quarters of monitoring. It has since been clean. During the last 16 quarterly monitoring events, only MW-2 (source area) was found to have measureable BTEX. The most recent four quarters of monitoring through the third quarter of 2008 show that BTEX levels in MW-2 are below WQCC standards.

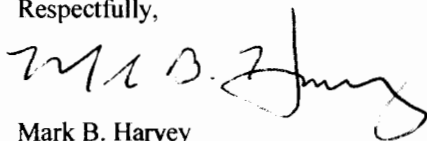
All monitoring wells have now demonstrated four consecutive quarters of BTEX levels below WQCC standards. Williams has prepared a table summarizing the ground water analytical results for 2007 and 2008. Copies of laboratory analytical reports for this period are also included. Previous lab results were provided in the summary reports submitted annually by Williams for all sites where ground water monitoring is ongoing and are thus not included in this submittal. For ease of review, the 2007 Site Summary Report is also included in the lab summary section.

### Summary

The unlined surface impoundment at the Patterson A Com #1A site was addressed consistent with OCD Order 7940-C and with the guidelines pertaining to the remediation of unlined surface impoundments. The work included the removal of hydrocarbon-impacted soil and an evaluation of ground water impacted by the historical operation of the impoundment. A network of ground water monitoring wells was installed and ground water analyses showed that a small BTEX plume existed in the vicinity of the former pit location. Natural attenuation of the BTEX compounds along with extensive source removal resulted in contaminant degradation to concentrations less than WQCC MCLs. The monitoring results show that there have been no exceedances of WQCC standards for BTEX in ground water for a period of four consecutive quarters.

Based on current site conditions, Williams requests approval for closure of the Patterson A Com #1A site. Following receipt of your closure approval, Williams will plug and abandon the monitoring wells in accordance with applicable guidelines. Williams appreciates your time in reviewing this site closure request. If you have any questions or require any additional information, please contact me at 801-232-8985 or David Bays at 505-634-4951.

Respectfully,



Mark B. Harvey  
Project Coordinator

### Attachments

c: Mr. Brandon Powell, NMOCD, District III  
Mr. Bill Liess, BLM, Farmington District Office  
Mr. David Bays, WFS w/o attachments

|                                                        |                       |                            |                                                      |
|--------------------------------------------------------|-----------------------|----------------------------|------------------------------------------------------|
| Operator: <u>PNM Gas Services (Burlington)</u>         |                       | Telephone: <u>324-3764</u> |                                                      |
| Address: <u>603 W. Elm Street Farmington, NM 87401</u> |                       |                            |                                                      |
| Facility or Well Name: <u>Patterson "A" Com #1A</u>    |                       |                            |                                                      |
| Location:                                              | Unit: <u>G</u>        | Sec. <u>2</u>              | T. <u>31 N</u> R. <u>12 W</u> County <u>San Juan</u> |
| Pit Type:                                              | Separator <u>    </u> | Dehydrator <u>X</u>        | Other <u>    </u>                                    |
| Land Type:                                             | BLM <u>    </u>       | State <u>    </u>          | Fee <u>X</u> Other <u>    </u>                       |

|                           |                 |                    |                                          |                   |
|---------------------------|-----------------|--------------------|------------------------------------------|-------------------|
| Pit Location:             | Pit dimensions: | length <u>20</u>   | width <u>20</u>                          | depth <u>3</u>    |
| (Attach diagram)          | Reference:      | wellhead <u>X</u>  | other <u>    </u>                        |                   |
| Footage from reference:   |                 | <u>8.5'</u>        |                                          |                   |
| Direction from reference: |                 | <u>45°</u> Degrees | <input type="checkbox"/> East            | North <u>    </u> |
|                           |                 |                    | <input checked="" type="checkbox"/> West | South <u>X</u>    |
|                           |                 |                    | of                                       |                   |

|                                                                                                                                           |                       |             |           |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------|-----------|
| <b>Depth to Ground Water:</b><br><br><small>(Vertical distance from contaminant to seasonal high water elevation of ground water)</small> | Less than 50 feet     | (20 points) | <u>10</u> |
|                                                                                                                                           | 50 feet to 99 feet    | (10 points) |           |
|                                                                                                                                           | Greater than 100 feet | (0 points)  |           |

|                                                                                                                                                                         |     |             |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|----------|
| <b>Wellhead Protection Area:</b><br><br><small>(Less than 200 feet from a private domestic water source, or: less than 1,000 feet from all other water sources)</small> | Yes | (20 points) | <u>0</u> |
|                                                                                                                                                                         | No  | (0 points)  |          |
|                                                                                                                                                                         |     |             |          |

|                                                                                                                                                                 |                         |             |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|----------|
| <b>Distance to Surface Water:</b><br><br><small>(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)</small> | Less than 200 feet      | (20 points) | <u>0</u> |
|                                                                                                                                                                 | 200 feet to 1,000 feet  | (10 points) |          |
|                                                                                                                                                                 | Greater than 1,000 feet | (0 points)  |          |

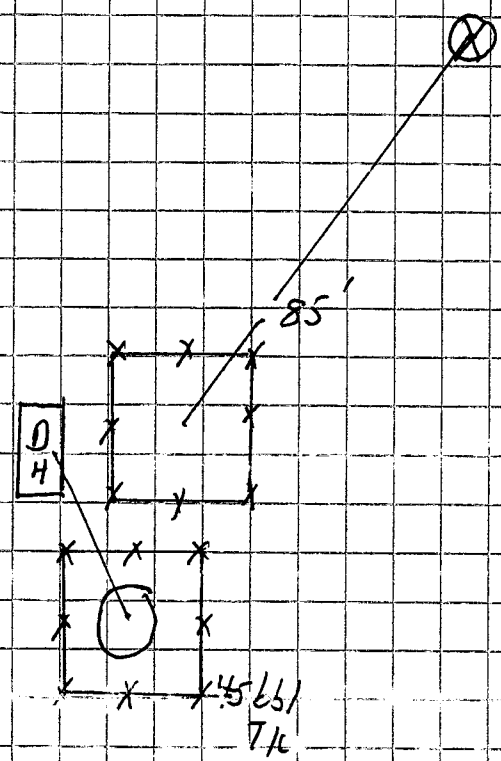
  

|                                      |           |
|--------------------------------------|-----------|
| <b>RANKING SCORE (TOTAL POINTS):</b> | <u>10</u> |
|--------------------------------------|-----------|

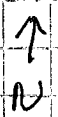
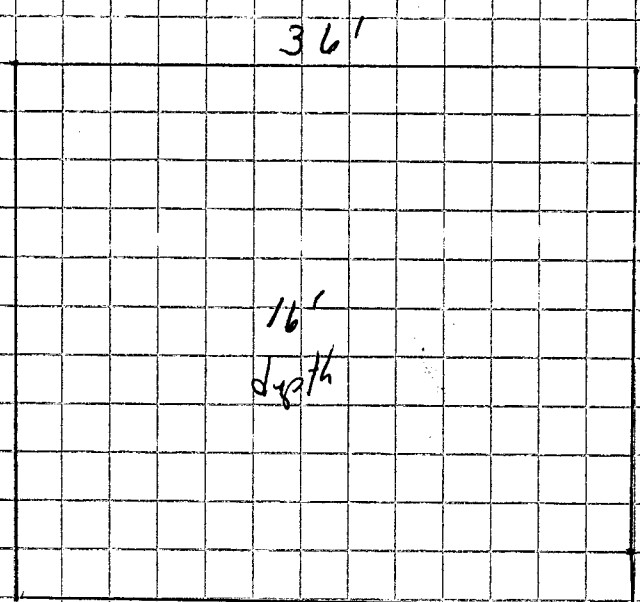
Patterson A Com #1A  
Burlington Resources  
Sec 2, 31N, 12W, G

5/13/98

stake 1



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

May 26, 1998

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

RE: Patterson "A" Com #1A

Order No.: 9805045

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 5/14/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

Diesel Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read 'D Cox', is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date: 26-May-98**

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Patterson "A" Com #1A  
**Lab Order:** 9805045

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**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 26-May-98

|                    |                                    |                            |                            |
|--------------------|------------------------------------|----------------------------|----------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Patterson "A" Com #1A      |
| <b>Work Order:</b> | 9805045                            | <b>Client Sample ID:</b>   | 9805140800; Bottom @ 18ft. |
| <b>Lab ID:</b>     | 9805045-01A                        | <b>Matrix:</b>             | SOIL                       |
| <b>Project:</b>    | Patterson "A" Com #1A              | <b>Collection Date:</b>    | 5/14/98 8:00:00 AM         |
|                    |                                    | <b>COC Record:</b>         | 7216                       |

| Parameter                    | Result | PQL            | Qual | Units | DF   | Date Analyzed |
|------------------------------|--------|----------------|------|-------|------|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b>  |      |       |      | Analyst: DC   |
| T/R Hydrocarbons: C10-C28    | 2500   | 25             |      | mg/Kg | 1    | 5/22/98       |
| <b>BTEX</b>                  |        | <b>SW8020A</b> |      |       |      | Analyst: HR   |
| Benzene                      | 2800   | 1000           |      | µg/Kg | 1000 | 5/18/98       |
| Toluene                      | 89000  | 2000           |      | µg/Kg | 1000 | 5/18/98       |
| Ethylbenzene                 | 16000  | 1000           |      | µg/Kg | 1000 | 5/18/98       |
| m,p-Xylene                   | 210000 | 2000           |      | µg/Kg | 1000 | 5/18/98       |
| o-Xylene                     | 43000  | 1000           |      | µg/Kg | 1000 | 5/18/98       |

360800  
360.80 ppm

**Qualifiers:**

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 26-May-98

|                    |                                    |                            |                           |
|--------------------|------------------------------------|----------------------------|---------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Patterson "A" Com #1A     |
| <b>Work Order:</b> | 9805045                            | <b>Client Sample ID:</b>   | 9805140830; Walls @ 13ft. |
| <b>Lab ID:</b>     | 9805045-02A                        | <b>Matrix:</b>             | SOIL                      |
| <b>Project:</b>    | Patterson "A" Com #1A              | <b>Collection Date:</b>    | 5/14/98 8:30:00 AM        |
|                    |                                    | <b>COC Record:</b>         | 7216                      |

| Parameter                    | Result | PQL            | Qual | Units | DF | Date Analyzed |
|------------------------------|--------|----------------|------|-------|----|---------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b>  |      |       |    | Analyst: DC   |
| T/R Hydrocarbons: C10-C28    | ND     | 25             |      | mg/Kg | 1  | 5/22/98       |
| <b>BTEX</b>                  |        | <b>SW8020A</b> |      |       |    | Analyst: HR   |
| Benzene                      | ND     | 1              |      | µg/Kg | 1  | 5/18/98       |
| Toluene                      | ND     | 2              |      | µg/Kg | 1  | 5/18/98       |
| Ethylbenzene                 | ND     | 1              |      | µg/Kg | 1  | 5/18/98       |
| m,p-Xylene                   | ND     | 2              |      | µg/Kg | 1  | 5/18/98       |
| o-Xylene                     | ND     | 1              |      | µg/Kg | 1  | 5/18/98       |

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Patterson "A" Com #1A

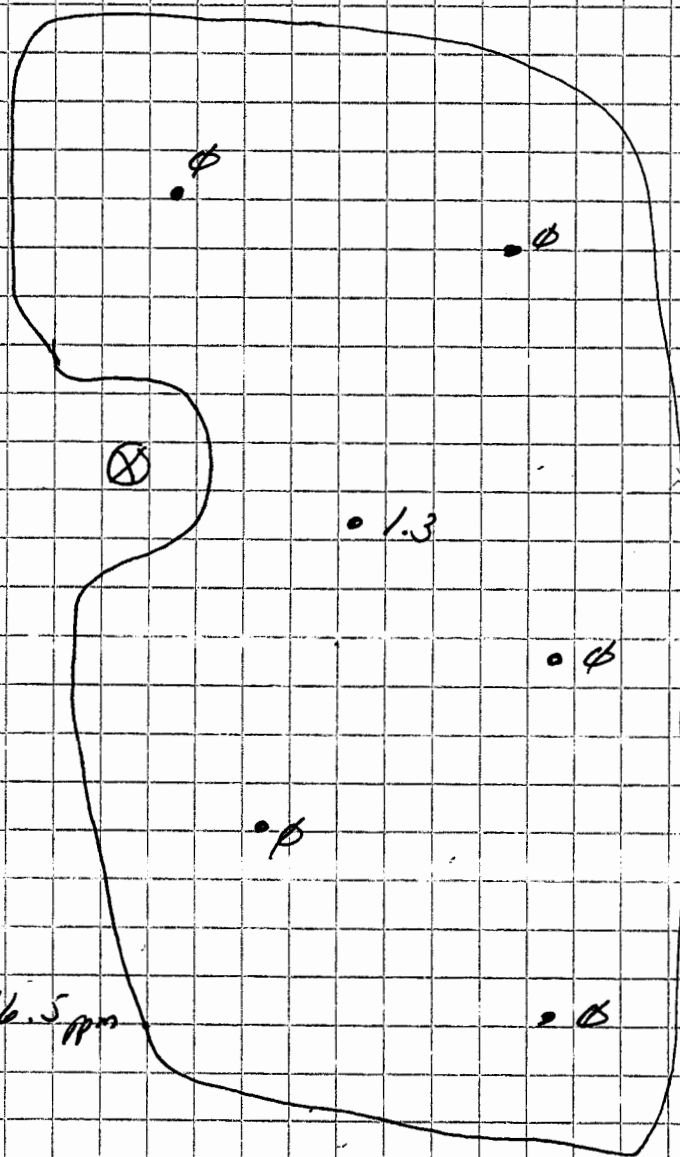
6/29/98

BR

Sec 2, 31N, 12W, A

Land Farm:

576 yards.



9806291100

2"-12" depth

soil vapor head space = 16.5 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 01-Jul-98

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Landfarms  
**Lab Order:** 9806114

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## **CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

July 01, 1998

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

RE: Landfarms

Dear Maureen Gannon,

Richardson #8E  
Richardson #1A  
Patterson BCom 1E  
Patterson #3  
Patterson BCom 1A  
Patterson ACom 1E  
Patterson ACom 1A  
Patterson 1A  
State Com AS 34E

Order No.: 9806114

On Site Technologies, LTD. received 9 samples on 6/29/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:  
Diesel Range Organics (SW8015)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



David Cox

OFF: (505) 325-5667

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

**ANALYTICAL REPORT**

**Date:** 01-Jul-98

|                    |                                    |                            |                                |
|--------------------|------------------------------------|----------------------------|--------------------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Patterson "A" Com #1A          |
| <b>Work Order:</b> | 9806114                            | <b>Client Sample ID:</b>   | 9806291100; 6pt. Comp @ 2-12in |
| <b>Lab ID:</b>     | 9806114-07A                        | <b>Matrix:</b>             | SOIL                           |
| <b>Project:</b>    | Landfarms                          | <b>Collection Date:</b>    | 6/29/98 11:00:00 AM            |
|                    |                                    | <b>COC Record:</b>         | 7306                           |

| Parameter                    | Result | PQL           | Qual | Units | DF | Date Analyzed      |
|------------------------------|--------|---------------|------|-------|----|--------------------|
| <b>DIESEL RANGE ORGANICS</b> |        | <b>SW8015</b> |      |       |    | <b>Analyst: DC</b> |
| T/R Hydrocarbons: C10-C28    | 58     | 25            |      | mg/Kg | 1  | 6/30/98            |

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1



# Unlined Surface Impoundment Assessment Form

Site Information:

|                    |                    |     |     |                  |                                                                                                                                                 |                      |               |
|--------------------|--------------------|-----|-----|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------|
| Well Name:         | PATTERSON ACOM #1A |     |     | Vulnerable Area: | <input type="checkbox"/> Original <input checked="" type="checkbox"/> Expanded <input type="checkbox"/> Extended <input type="checkbox"/> Other |                      |               |
| Operator:          | MERIDIAN OIL INC   |     |     | Date:            | 1/15/96                                                                                                                                         | Well Pad Dimensions: | Data Sheet #: |
|                    |                    |     |     | Time:            | 1015 AM/PM                                                                                                                                      | L 310 W 250          | 4004          |
| Legal Description: | Sec                | Twn | Rng | Unit             | Canyon:                                                                                                                                         | County:              | Run #:        |
|                    | 2                  | 31N | R2W | 6                | FARMINGTON GLADE                                                                                                                                | SAN JUAN             | 307           |
|                    |                    |     |     | Quad Map (#):    | Adobe MESA                                                                                                                                      |                      |               |
| 790' FNL 890 FEL   |                    |     |     |                  |                                                                                                                                                 |                      |               |

Pit Information:

|                                               |                                                                     |                    |                                                                                                                                          |                                                   |                |                   |
|-----------------------------------------------|---------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------|-------------------|
| PNM Pit:                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | PNM Equipment:     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                      | Ref: WH <input checked="" type="checkbox"/> Other | OVM            | 1999 ppm          |
| <input type="checkbox"/> Active               | <input type="checkbox"/> SAT                                        | Tank Set:          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                      | Distance from                                     | Testhole Depth | 6"                |
| <input checked="" type="checkbox"/> Abandoned | <input type="checkbox"/> Inaccessible                               | Discharges to Pit: | <input type="checkbox"/> SEP <input checked="" type="checkbox"/> DH <input type="checkbox"/> DR <input checked="" type="checkbox"/> None | Degrees:                                          | Soil Desc.     | CLAY/SAND Blue 4" |
| L 20 W 20                                     |                                                                     | Lab Sample:        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                      | Sample #(s):                                      | COC#:          |                   |

Geographical:

|                                          |                                                                      |                                                    |                                      |                                     |                                             |                                         |                                   |                               |
|------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------|-------------------------------|
| Geology:                                 | <input type="checkbox"/> SS <input checked="" type="checkbox"/> Clay | Terrain:                                           | <input type="checkbox"/> Mesa Top    | Land Use:                           | <input checked="" type="checkbox"/> Grazing | Land Type:                              | <input type="checkbox"/> BLM      | Vegetation:                   |
| <input checked="" type="checkbox"/> Sand | <input type="checkbox"/> Outcrop <input type="checkbox"/> Rock       | <input checked="" type="checkbox"/> Trailing Slope | <input type="checkbox"/> Residential | <input type="checkbox"/> Recreation | <input type="checkbox"/> State              | <input checked="" type="checkbox"/> Fee | <input type="checkbox"/> Normal   | Area                          |
| <input type="checkbox"/> Gravel          | <input type="checkbox"/> Cliffs <input type="checkbox"/> Silt        | <input type="checkbox"/> River Bottom              | <input type="checkbox"/> Other       | <input type="checkbox"/> Other      | <input type="checkbox"/> Other              | <input type="checkbox"/> Other          | <input type="checkbox"/> Stressed | <input type="checkbox"/> None |
| <input type="checkbox"/> Other           |                                                                      | <input type="checkbox"/> Other                     |                                      |                                     |                                             |                                         | <input type="checkbox"/> None     | <input type="checkbox"/>      |

Ranking:

|                                                                                                                 |                                            |    |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------|----|
| Depth to Groundwater:                                                                                           | Less than 50 feet (20 points)              |    |
| (Vertical distance from contaminants to seasonal high water elevation of groundwater)                           | 50 feet to 99 feet (10 points)             | 10 |
|                                                                                                                 | Greater than 100 feet (0 points)           |    |
| Wellhead Protection Area:                                                                                       | Yes (20 points)                            | 0  |
| (Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources) | No (0 points)                              |    |
| Distance to Surface Water:                                                                                      | Less than 200 feet (20 points)             |    |
| (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals, and ditches)        | 200 feet to 1,000 feet (10 points)         | 0  |
|                                                                                                                 | Greater than 1,000 feet (0 points)         |    |
| Distance to Ephemeral Stream (dry wash):                                                                        | Less than or equal to 100 feet (10 points) |    |
| (Horizontal distance to all downgradient streams having a width of at least 10 feet)                            | Greater than 100 feet (0 points)           |    |
| Jicarilla only                                                                                                  |                                            |    |
| Distance to Nearest Lake, Playa, or Watering Pond:                                                              | Less than or equal to 100 feet (10 points) |    |
| (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds) Jicarilla only   | Greater than 100 feet (0 points)           |    |

General Comments:

#1  
B.S. 45 BBL TANK SET in new PIT - OLD PIT 1999 ppm #2

Assessor's Signature:

Roy Burnham

Date:

1.15.96

# Excavation Work Sheet

|                                           |                          |                                                 |                       |          |         |
|-------------------------------------------|--------------------------|-------------------------------------------------|-----------------------|----------|---------|
| Date<br>5/13/98                           |                          | Vertical Extent<br>60' Glade Wash               |                       |          |         |
| Well Name<br>Patterson "A" Com #1A        | Operator<br>BR           | S<br>2                                          | T<br>31N              | R<br>12W | UI<br>G |
| Pit Dimensions at Start<br>20' X 20' X 3' |                          | Excavation Dimensions at End<br>36' X 27' X 16' |                       |          |         |
| Excavated Cu. Yds.<br>576                 | Overburden Cu. Yds.<br>0 |                                                 | Spoil Cu. Yds.<br>576 |          |         |

| PIT PID READINGS |        |                   |         |         |         |         |
|------------------|--------|-------------------|---------|---------|---------|---------|
| Feet             | Center | Soil Type         | N. Wall | S. Wall | E. Wall | W. Wall |
| 5'               | 1480   | BLK/GRY sand-clay |         |         |         |         |
| 10'              | 1528   | GRY sand/clay     |         |         |         |         |
| 15'              | 1117   | BRN sand/dm       | 17.1    | 41.6    | 6.3     | 38.1    |
| 18'              | 1049   | BRN sand/clay     |         |         |         |         |
| 25'              |        |                   |         |         |         |         |
|                  |        |                   |         |         |         |         |
|                  |        |                   |         |         |         |         |

| Composite Sample #: |       |             | Bottom     | walls      |
|---------------------|-------|-------------|------------|------------|
|                     |       |             | 9805140800 | 9805140830 |
| Location            | Depth | PID Reading |            |            |
| North Wall          | 13'   | 17.1        |            |            |
| South Wall          | 13'   | 41.6        |            |            |
| East Wall           | 13'   | 6.3         |            |            |
| West Wall           | 13'   | 38.1        |            |            |
| Pit Bottom          | 18'   | 1049        |            |            |

Land Farm Location: On location

Back Fill Location: push LF into open pit

Comments: Contamination spread over rather large area travel East towards wash. Well clear  
 Terraced down middle of pit & excavated to 18' depth & sample 1049 ppm.  
 Bottom hot, wall clean  
 will probably need vertical extent.

**Gannon, Maureen**

10  
Farm/Slade  
up

**From:** Gannon, Maureen  
**Sent:** Tuesday, March 02, 1999 2:31 PM  
**To:** 'Bill Olson'  
**Cc:** Sikelianos, Mark; Johnson, Ronald; 'Denny Foust'; Bill Von Drehle; Ingrid Deklau  
**Subject:** New Groundwater Site Notification-Patterson A Com #1A

Please be advised that PNM has discovered a new contaminated groundwater site during vertical extent drilling.

Site name: Patterson A Comp #1A  
Location: S2 T31N R12W Unit "G"  
Operator: Burlington Resources  
Depth to GW: 75'  
Contaminant Concentration: benzene 7,100 ppb; BTEX 29,910 ppb

A written notification shall be made to OCD within 15 days with a hardcopy of the analytical results. In the meantime, if you have any questions, please call me at (505) 241-2974.

Public Service Company  
of New Mexico  
Alvarado Square MS 0408  
Albuquerque, NM 87158

March 12, 1999

Mr. William Olson  
Hydrogeologist  
Oil Conservation Division  
2040 So. Pacheco  
Santa Fe, New Mexico 87505



**RE: NOTIFICATION OF GROUNDWATER CONTAMINATION- PATTERSON A COM #1A**

Dear Bill:

Pursuant to New Mexico Water Quality Control Commission (WQCC) Regulations, section 1-203, PNM hereby provides written notification of groundwater contamination at the Patterson A Com #1A, located in S2 T31N R12W, unit letter "G". Figure 1 is a topographic map showing the location of the site. The operator is Burlington Resources. This letter follows e-mail notification provided to you on Tuesday, March 2, 1999 (M. Gannon, PNM to B. Olson, OCD).

On February 18, 1999, a PNM environmental technician discovered groundwater at 75 feet below ground surface during vertical extent determination. A groundwater sample was collected and delivered to OnSite Technologies, Farmington, New Mexico. A hardcopy of the analytical results is attached and a summary of the BTEX constituent concentrations is provided below:

| Component    | Units | WQCC Stds. | Groundwater Sample |
|--------------|-------|------------|--------------------|
| Benzene      | ppb   | 10         | <b>7100</b>        |
| Toluene      | ppb   | 750        | <b>17000</b>       |
| Ethylbenzene | ppb   | 750        | <b>510</b>         |
| Xylenes      | ppb   | 620        | <b>5300</b>        |
| Total BTEX   | ppb   |            | 29910              |

Bold type indicates a WQCC exceedance.

This letter serves as written notification of groundwater impact at the Patterson A Com #1A. PNM will conduct future activities at the site pursuant to PNM's Groundwater Management Plan. If you have any questions, please call me at (505) 241-2974. Thank you.

Sincerely,  
PNM Environmental Services

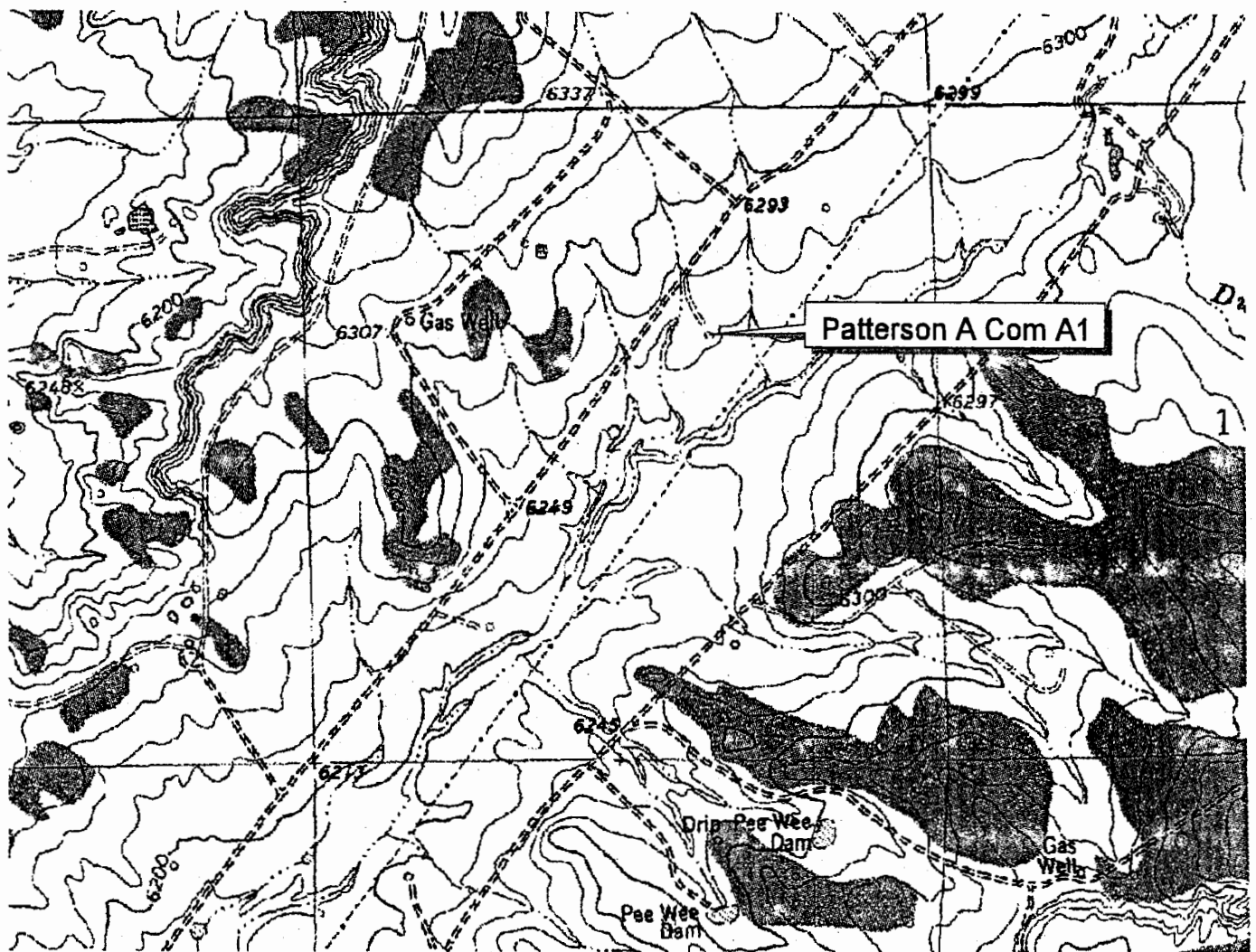
  
Maureen Gannon  
Project Manager

Attachment

cc: Colin Adams, PNM  
Ingrid Deklau, WFS  
Denny Foust, OCD-Aztec Office  
Ed Hasely, Burlington Resources  
Kathy Juckes, PNM Farmington File  
Mark Sikelianos, PNM  
Bill von Drehle, WFS



**Figure 1**  
**Patterson A Com A1**  
**Twn. 31N Rng. 12W Sec. 2 Unit G**



Adobe Downs Ranch, N. Mex.-Colo. Quadrangle

0 1000 2000 3000 4000 5000 6000 Feet



OFF: (505) 325-5667



22 1 01N 1215W  
GWD Depth 75'  
Burlington  
B 7100  
BTEX 29910  
LAB: (505) 325-1556

February 23, 1999

RECEIVED

MAR 02 1999

Maureen Gannon  
PNM - Public Service Company of NM  
Alvarado Square Mail Stop 0408  
Albuquerque, NM 87158  
TEL: (505) 241-2974  
FAX (505) 241-2340

RE: Patterson A Comp #1A

Order No.: 9902079

Dear Maureen Gannon,

On Site Technologies, LTD. received 1 sample on 2/18/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:  
BTEX (SW8021B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox".

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

---

**On Site Technologies, LTD.**

Date: 23-Feb-99

---

**CLIENT:** PNM - Public Service Company of NM  
**Project:** Patterson A Comp #1A  
**Lab Order:** 9902079

---

**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 23-Feb-99

|                    |                                    |                            |                       |
|--------------------|------------------------------------|----------------------------|-----------------------|
| <b>Client:</b>     | PNM - Public Service Company of NM | <b>Client Sample Info:</b> | Patterson A Comp # 1A |
| <b>Work Order:</b> | 9902079                            | <b>Client Sample ID:</b>   | 9902181113; MW        |
| <b>Lab ID:</b>     | 9902079-01A                        | <b>Matrix:</b>             | AQUEOUS               |
| <b>Project:</b>    | Patterson A Comp #1A               | <b>Collection Date:</b>    | 2/28/99 11:13:00 AM   |
|                    |                                    | <b>COC Record:</b>         | 7369                  |

| Parameter    | Result | PQL            | Qual | Units | DF  | Date Analyzed      |
|--------------|--------|----------------|------|-------|-----|--------------------|
| <b>BTEX</b>  |        | <b>SW8021B</b> |      |       |     | <b>Analyst: HR</b> |
| Benzene      | 7100   | 25             |      | µg/L  | 50  | 2/18/99            |
| Toluene      | 17000  | 50             |      | µg/L  | 100 | 2/18/99            |
| Ethylbenzene | 510    | 25             |      | µg/L  | 50  | 2/18/99            |
| m,p-Xylene   | 4300   | 50             |      | µg/L  | 50  | 2/18/99            |
| o-Xylene     | 1000   | 25             |      | µg/L  | 50  | 2/18/99            |

29910

|                    |                                                         |                                                     |
|--------------------|---------------------------------------------------------|-----------------------------------------------------|
| <b>Qualifiers:</b> | PQL - Practical Quantitation Limit                      | S - Spike Recovery outside accepted recovery limits |
|                    | ND - Not Detected at Practical Quantitation Limit       | R - RPD outside accepted recovery limits            |
|                    | J - Analyte detected below Practical Quantitation Limit | E - Value above quantitation range                  |
|                    | B - Analyte detected in the associated Method Blank     | Surr: - Surrogate                                   |

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

# CHAIN OF CUSTODY RECORD

7369

Page: 1 of 7

**612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499**  
**LAB: (505) 325-5667 • FAX: (505) 325-6256**

|                      |  |                                 |  |
|----------------------|--|---------------------------------|--|
| Purchase Order No.:  |  | Job No.                         |  |
| Name                 |  | Denver Bearden                  |  |
| Company              |  | PNM Gas Services                |  |
| Address              |  | 603 W. Elm Street               |  |
| City, State, Zip     |  | Farmington, NM 87401            |  |
| Dept.                |  | 324-3763                        |  |
| Name                 |  | Maureen Gannon                  |  |
| Company              |  | PNM Gas Services                |  |
| Mailing Address      |  | Alverado Square, Mail Stop 0408 |  |
| City, State, Zip     |  | Albuquerque, NM 87158           |  |
| Telephone No.        |  | 505-848-2974                    |  |
| Telefax No.          |  |                                 |  |
| Title                |  |                                 |  |
| RESULTS TO           |  | REPORT                          |  |
| Number of Containers |  | ANALYSIS REQUESTED              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  | TIME                            |  |
| 9/18/99              |  | 1113                            |  |
| H <sub>2</sub> O     |  | H <sub>2</sub> O                |  |
| MW                   |  | MW                              |  |
| DATE                 |  |                                 |  |

| Distribution: | White - On Site | Yellow - LAB | Pink - Sampler | Goldenrod - Client |
|---------------|-----------------|--------------|----------------|--------------------|
|---------------|-----------------|--------------|----------------|--------------------|

Patterson A Com #1A

Lab Results

# Analytical Data Summary

Site Name:

Patterson A Com A1

Reporting Period:

1/1/2007 To 12/31/2008

| Well ID     | Sample Date | Sample ID   | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylene (Total)<br>ug/l |
|-------------|-------------|-------------|-----------------|-----------------|----------------------|------------------------|
| <b>MW-1</b> |             |             |                 |                 |                      |                        |
|             | 3/20/2007   | 185520MAR07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 6/26/2007   | 163326JUN07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 10/6/2007   | 125706OCT07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 12/19/2007  | 100019DEC07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 3/26/2008   | 153126MAR08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 6/10/2008   | 174110JUN08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 9/18/2008   | 185819SEP08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
| <b>MW-2</b> |             |             |                 |                 |                      |                        |
|             | 3/20/2007   | 192920MAR07 | 18.0            | <1.0            | <1.0                 | 11.8                   |
|             | 6/26/2007   | 173826JUN07 | 12.6            | <1.0            | <1.0                 | 6.0                    |
|             | 10/6/2007   | 140506OCT07 | 6.8             | <1.0            | <1.0                 | 7.1                    |
|             | 12/19/2007  | 105919DEC07 | 1.8             | <1.0            | <1.0                 | <3.0                   |
|             | 3/26/2008   | 161526MAR08 | 2.1             | <1.0            | <1.0                 | 3.0                    |
|             | 6/10/2008   | 182110JUN08 | 4.6             | <1.0            | <1.0                 | 3.7                    |
|             | 9/18/2008   | 192219SEP08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
| <b>MW-3</b> |             |             |                 |                 |                      |                        |
|             | 3/20/2007   | 191020MAR07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 6/26/2007   | 164626JUN07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 10/6/2007   | 133406OCT07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 12/19/2007  | 101019DEC07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 3/26/2008   | 154226MAR08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 6/10/2008   | 175410JUN08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 9/18/2008   | 190819SEP08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
| <b>MW-4</b> |             |             |                 |                 |                      |                        |
|             | 6/26/2007   | 171926JUN07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 10/6/2007   | 135106OCT07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 12/19/2007  | 104019DEC07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 3/26/2008   | 160826MAR08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
| <b>MW-5</b> |             |             |                 |                 |                      |                        |
|             | 6/26/2007   | 175126JUN07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|             | 10/6/2007   | 130806OCT07 | <1.0            | <1.0            | <1.0                 | <3.0                   |

**Site Name:**

Patterson A Com A1

**Reporting Period:**

1/1/2007 To 12/31/2008

| Well ID | Sample Date | Sample ID   | Benzene<br>ug/l | Toluene<br>ug/l | Ethylbenzene<br>ug/l | Xylene (Total)<br>ug/l |
|---------|-------------|-------------|-----------------|-----------------|----------------------|------------------------|
| MW-6    | 3/20/2007   | 191520MAR07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|         | 6/26/2007   | 170426JUN07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|         | 10/6/2007   | 132106OCT07 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|         | 3/26/2008   | 155226MAR08 | <1.0            | <1.0            | <1.0                 | <3.0                   |
|         | 6/10/2008   | 180410JUN08 | <1.0            | <1.0            | <1.0                 | <3.0                   |

## Site Summary Report

---

**Site Name:** Patterson A Com A1

**Reporting Period:** 2007

---

**Location:** Unit G, Sec 2, Twn 31N, Rng 12W  
**Canyon:** Farmington Glade  
**Operator:** Burlington

**Vulnerable Class:** original  
**OCD Ranking:** 40  
**Lead Agency:** NMOCD

### **Status Narrative**

Thirty three quarters of water quality data have been collected from the seven monitoring wells located at this site. Currently, only the source area well, MW-2, contains benzene at concentrations at measureable levels. Benzene concentrations diminished from 18.0 ppb to 1.8 ppb during the monitoring period and dropped each successive quarter.

Potentiometric surface maps (Figure 2) depict ground water flow generally to the southeast. The hydraulic gradient ranges from 0.004 to 0.006 throughout the year. Seasonal fluctuations in the water-table elevation are illustrated on the enclosed hydrograph. Results indicate effective monitored natural attenuation at this site and clean closure is likely.



Pace Analytical Services, Inc.  
9608 Loiret Blvd.  
Lenexa, KS 66219  
(913)599-5665

October 07, 2008

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

RE: Project: NM GROUNDWATER DAVIS & PETERSON  
Pace Project No.: 6047721

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 03, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colleen Koporc

colleen.koporc@pacelabs.com  
Project Manager

Enclosures

## REPORT OF LABORATORY ANALYSIS

Page 1 of 14

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Pace Analytical Services, Inc.  
9608 Loiret Blvd.  
Lenexa, KS 66219  
(913)599-5665

## CERTIFICATIONS

Project: NM GROUNDWATER DAVIS & PETERSON  
Pace Project No.: 6047721

---

### Kansas Certification IDs

Kansas/NELAP Certification Number: E-10116  
Utah Certification Number: 9135995665  
Texas Certification Number: T104704407-08-TX  
Oklahoma Certification Number: 9205/9935  
Nevada Certification Number: KS000212008A

Louisiana Certification Number: 03055  
Iowa Certification Number: 118  
Illinois Certification Number: 001191  
Arkansas Certification Number: 05-008-0  
A2LA Certification Number: 2456.01

---

## REPORT OF LABORATORY ANALYSIS

Page 2 of 14

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### SAMPLE SUMMARY

Project: NM GROUNDWATER DAVIS & PETERSON

Pace Project No.: 6047721

| Lab ID                | Sample ID              | Matrix | Date Collected | Date Received  |
|-----------------------|------------------------|--------|----------------|----------------|
| 6047721001            | EDD                    | Water  | 09/19/08 16:28 | 10/03/08 09:10 |
| <del>6047721002</del> | <del>162819SEP08</del> | Water  | 09/19/08 16:28 | 10/03/08 09:10 |
| <del>6047721003</del> | <del>164219SEP08</del> | Water  | 09/19/08 16:42 | 10/03/08 09:10 |
| <del>6047721004</del> | <del>165919SEP08</del> | Water  | 09/19/08 16:59 | 10/03/08 09:10 |
| <del>6047721005</del> | <del>174619SEP08</del> | Water  | 09/19/08 17:16 | 10/03/08 09:10 |
| 6047721006            | 185819SEP08            | Water  | 09/19/08 18:58 | 10/03/08 09:10 |
| 6047721007            | 190819SEP08            | Water  | 09/19/08 19:08 | 10/03/08 09:10 |
| 6047721008            | 192219SEP08            | Water  | 09/19/08 19:22 | 10/03/08 09:10 |

DVS #1

PTRSN

### REPORT OF LABORATORY ANALYSIS

Page 3 of 14

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### SAMPLE ANALYTE COUNT

Project: NM GROUNDWATER DAVIS & PETERSO  
Pace Project No.: 6047721

| Lab ID     | Sample ID   | Method   | Analysts | Analytes Reported |
|------------|-------------|----------|----------|-------------------|
| 6047721002 | 162819SEP08 | EPA 8260 | GEZ      | 9                 |
| 6047721003 | 164219SEP08 | EPA 8260 | GEZ      | 9                 |
| 6047721004 | 165919SEP08 | EPA 8260 | GEZ      | 9                 |
| 6047721005 | 171619SEP08 | EPA 8260 | GEZ      | 9                 |
| 6047721006 | 185819SEP08 | EPA 8260 | GEZ      | 9                 |
| 6047721007 | 190819SEP08 | EPA 8260 | GEZ      | 9                 |
| 6047721008 | 192219SEP08 | EPA 8260 | GEZ      | 9                 |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NM GROUNDWATER DAVIS & PETERSO

Pace Project No.: 6047721

| Sample: 185819SEP08        |         | Lab ID: 6047721006          | Collected: 09/19/08 18:58 | Received: 10/03/08 09:10 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/06/08 17:59 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 10/06/08 17:59 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/06/08 17:59 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 10/06/08 17:59 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 103 %   |                             | 85-114                    | 1                        |               | 10/06/08 17:59 | 1868-53-7  |      |
| Toluene-d8 (S)             | 102 %   |                             | 82-114                    | 1                        |               | 10/06/08 17:59 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 94 %    |                             | 85-119                    | 1                        |               | 10/06/08 17:59 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 95 %    |                             | 81-118                    | 1                        |               | 10/06/08 17:59 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 10/06/08 17:59 |            |      |



Pace Analytical Services, Inc.  
9608 Loiret Blvd.  
Lenexa, KS 66219  
(913)599-5665

## ANALYTICAL RESULTS

Project: NM GROUNDWATER DAVIS & PETERSO

Pace Project No.: 6047721

| Sample: 190819SEP08       |         | Lab ID: 6047721007          | Collected: 09/19/08 19:08 | Received: 10/03/08 09:10 | Matrix: Water |                |            |      |
|---------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| 8260 MSV UST, Water       |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                   | ND      | ug/L                        | 1.0                       | 1                        |               | 10/06/08 18:15 | 71-43-2    |      |
| Ethylbenzene              | ND      | ug/L                        | 1.0                       | 1                        |               | 10/06/08 18:15 | 100-41-4   |      |
| Toluene                   | ND      | ug/L                        | 1.0                       | 1                        |               | 10/06/08 18:15 | 108-88-3   |      |
| Xylene (Total)            | ND      | ug/L                        | 3.0                       | 1                        |               | 10/06/08 18:15 | 1330-20-7  |      |
| Dibromofluoromethane (S)  | 101     | %                           | 85-114                    | 1                        |               | 10/06/08 18:15 | 1868-53-7  |      |
| Toluene-d8 (S)            | 103     | %                           | 82-114                    | 1                        |               | 10/06/08 18:15 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)  | 97      | %                           | 85-119                    | 1                        |               | 10/06/08 18:15 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S) | 100     | %                           | 81-118                    | 1                        |               | 10/06/08 18:15 | 17060-07-0 |      |
| Preservation pH           | 1.0     |                             | 1.0                       | 1                        |               | 10/06/08 18:15 |            |      |

Date: 10/07/2008 03:09 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NM GROUNDWATER DAVIS & PETERSON

Pace Project No.: 6047721

| Sample: 192219SEP08        |         | Lab ID: 6047721008          | Collected: 09/19/08 19:22 | Received: 10/03/08 09:10 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/06/08 18:31 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 10/06/08 18:31 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/06/08 18:31 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 10/06/08 18:31 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 98 %    |                             | 85-114                    | 1                        |               | 10/06/08 18:31 | 1868-53-7  |      |
| Toluene-d8 (S)             | 98 %    |                             | 82-114                    | 1                        |               | 10/06/08 18:31 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 96 %    |                             | 85-119                    | 1                        |               | 10/06/08 18:31 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 96 %    |                             | 81-118                    | 1                        |               | 10/06/08 18:31 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 10/06/08 18:31 |            |      |

### QUALITY CONTROL DATA

Project: NM GROUNDWATER DAVIS & PETERSON

Pace Project No.: 6047721

QC Batch: MSV/17216

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6047721002, 6047721003, 6047721004, 6047721005, 6047721006, 6047721007, 6047721008

METHOD BLANK: 389242

Matrix: Water

Associated Lab Samples: 6047721002, 6047721003, 6047721004, 6047721005, 6047721006, 6047721007, 6047721008

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             | 10/06/08 16:24 |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             | 10/06/08 16:24 |            |
| Toluene                   | ug/L  | ND           | 1.0             | 10/06/08 16:24 |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             | 10/06/08 16:24 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 93           | 81-118          | 10/06/08 16:24 |            |
| 4-Bromofluorobenzene (S)  | %     | 102          | 85-119          | 10/06/08 16:24 |            |
| Dibromofluoromethane (S)  | %     | 100          | 85-114          | 10/06/08 16:24 |            |
| Toluene-d8 (S)            | %     | 104          | 82-114          | 10/06/08 16:24 |            |

LABORATORY CONTROL SAMPLE: 389243

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 9.8        | 98        | 87-117       |            |
| Ethylbenzene              | ug/L  | 10          | 10.3       | 103       | 84-123       |            |
| Toluene                   | ug/L  | 10          | 10.3       | 103       | 81-124       |            |
| Xylene (Total)            | ug/L  | 30          | 29.5       | 98        | 83-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 100       | 81-118       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 95        | 85-119       |            |
| Dibromofluoromethane (S)  | %     |             |            | 101       | 85-114       |            |
| Toluene-d8 (S)            | %     |             |            | 104       | 82-114       |            |

## QUALIFIERS

Project: NM GROUNDWATER DAVIS & PETERSO

Pace Project No.: 6047721

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### BATCH QUALIFIERS

Batch: MSV/17216

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

## 869240

### Section B

Required Client Information: **Section A**

Report To: **MARK HARVEY**

Copy To:

Invoice To:

P.O.

Project Name: **NM GROUNDWATER**

Project Number: **DAVIS + PETERSON**

Phone: **505-326-5422** Fax:

Page: **1** of **1**

### Section C

To Be Completed by Pace Analytical and Client

Quote Reference:

Project Manager:

Project #: **Cash 7721**

Profile #:

Requested Analysis:

| Section D |                                          |  |  |  |  |  |  |  |  | Required Client Information: |                           |  |  |  |  |  |  |  |  | Project Number |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| ITEM #    | SAMPLE ID                                |  |  |  |  |  |  |  |  |                              | Valid Matrix Codes        |  |  |  |  |  |  |  |  |                | Matrix Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|           | One character per box.<br>(A-Z, 0-9 / -) |  |  |  |  |  |  |  |  |                              | Sample IDs MUST BE UNIQUE |  |  |  |  |  |  |  |  |                | DRINKING WATER<br>GROUNDWATER<br>SURFACE WATER<br>WASTE WATER<br>PRODUCT<br>SOIL<br>OIL<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<br>WASTE<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|  |  |  |  |  |  |  |  |                  |             |  |  |  |  |  |  |  |  |                     |              |  |  |  |  |  |  |  |  |                  |           |  |  |  |  |  |  |  |  |  |             |  |  |  |  |  |  |  |  |  |               |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |  |  |  |

| SITE LOCATION               |                             |                             | REGULATORY AGENCY                                |                               |                                         | RELINQUISHED BY / AFFILIATION  |                              |                                | ACCEPTED BY / AFFILIATION      |                              |                                | TIME                           |                              |                                |
|-----------------------------|-----------------------------|-----------------------------|--------------------------------------------------|-------------------------------|-----------------------------------------|--------------------------------|------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|
| <input type="checkbox"/> NC | <input type="checkbox"/> SC | <input type="checkbox"/> GA | <input checked="" type="checkbox"/> GROUND WATER | <input type="checkbox"/> RCRA | <input type="checkbox"/> DRINKING WATER | <input type="checkbox"/> NPDES | <input type="checkbox"/> UST | <input type="checkbox"/> Other | <input type="checkbox"/> NPDES | <input type="checkbox"/> UST | <input type="checkbox"/> Other | <input type="checkbox"/> NPDES | <input type="checkbox"/> UST | <input type="checkbox"/> Other |
| SAMPLE CONDITION            |                             |                             | SAMPLE NOTES                                     |                               |                                         | M. HARVEY / MILE HIGH          |                              |                                | FED-X                          |                              |                                | 10-2 1:30p                     |                              |                                |
| Temp in °C                  | 3.4                         |                             | 320 QTR '08                                      |                               |                                         |                                |                              |                                |                                |                              |                                |                                |                              |                                |
| Received on ice             | YN                          |                             | 2 CONTAINERS / SAMPLE                            |                               |                                         |                                |                              |                                |                                |                              |                                |                                |                              |                                |
| Sealed Cooler               | YN                          |                             | NOTE 40                                          |                               |                                         |                                |                              |                                |                                |                              |                                |                                |                              |                                |
| Samples Intact              | YN                          |                             |                                                  |                               |                                         |                                |                              |                                |                                |                              |                                |                                |                              |                                |
| Additional Comments:        |                             |                             |                                                  |                               |                                         |                                |                              |                                |                                |                              |                                |                                |                              |                                |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **MARK HARVEY**

SIGNATURE of SAMPLER: *Mark Harvey*

DATE Signed: (MM / DD / YY) **10-2-08**

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NM GROUNDWATER DAVIS & PETERSON  
Pace Project No.: 6047721

| Lab ID     | Sample ID   | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-------------|-----------------|-----------|-------------------|------------------|
| 6047721002 | 162819SEP08 | EPA 8260        | MSV/17216 |                   |                  |
| 6047721003 | 164219SEP08 | EPA 8260        | MSV/17216 |                   |                  |
| 6047721004 | 165919SEP08 | EPA 8260        | MSV/17216 |                   |                  |
| 6047721005 | 171619SEP08 | EPA 8260        | MSV/17216 |                   |                  |
| 6047721006 | 185819SEP08 | EPA 8260        | MSV/17216 |                   |                  |
| 6047721007 | 190819SEP08 | EPA 8260        | MSV/17216 |                   |                  |
| 6047721008 | 192219SEP08 | EPA 8260        | MSV/17216 |                   |                  |



Pace Analytical Services, Inc.  
9608 Loiret Blvd.  
Lenexa, KS 66219  
(913)599-5665

June 18, 2008

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

RE: Project: NMGW CHMB & PTRSN  
Pace Project No.: 6041763

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colleen Koporc

colleen.koporc@pacelabs.com  
Project Manager

A2LA Certification Number: 2456.01  
Arkansas Certification Number: 05-008-0  
Illinois Certification Number: 001191  
Iowa Certification Number: 118  
Kansas/NELAP Certification Number: E-10116  
Louisiana Certification Number: 03055  
Oklahoma Certification Number: 9205/9935  
Utah Certification Number: 9135995665

Enclosures

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

| Lab ID                | Sample ID              | Matrix | Date Collected | Date Received  |
|-----------------------|------------------------|--------|----------------|----------------|
| 6041763001            | EDD                    | Water  | 06/10/08 18:48 | 06/12/08 09:00 |
| <del>6041763002</del> | <del>184810JUN08</del> | Water  | 06/10/08 18:48 | 06/12/08 09:00 |
| <del>6041763003</del> | <del>185610JUN08</del> | Water  | 06/10/08 18:56 | 06/12/08 09:00 |
| 6041763004            | 174110JUN08            | Water  | 06/10/08 17:41 | 06/12/08 09:00 |
| 6041763005            | 175410JUN08            | Water  | 06/10/08 17:54 | 06/12/08 09:00 |
| 6041763006            | 180410JUN08            | Water  | 06/10/08 18:04 | 06/12/08 09:00 |
| 6041763007            | 182110JUN08            | Water  | 06/10/08 18:21 | 06/12/08 09:00 |

CHMB

PTRSN

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: NMGW CHMB & PTRSN  
Pace Project No.: 6041763

| Lab ID     | Sample ID   | Method   | Analysts | Analytes Reported |
|------------|-------------|----------|----------|-------------------|
| 6041763002 | 184810JUN08 | EPA 8260 | JTK      | 9                 |
| 6041763003 | 185610JUN08 | EPA 8260 | JTK      | 9                 |
| 6041763004 | 174110JUN08 | EPA 8260 | JTK      | 9                 |
| 6041763005 | 175410JUN08 | EPA 8260 | JTK      | 9                 |
| 6041763006 | 180410JUN08 | EPA 8260 | JTK      | 9                 |
| 6041763007 | 182110JUN08 | EPA 8260 | JTK      | 9                 |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

Sample: 174110JUN08 Lab ID: 6041763004 Collected: 06/10/08 17:41 Received: 06/12/08 09:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 06/14/08 01:34 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 06/14/08 01:34 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 06/14/08 01:34 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 06/14/08 01:34 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 96      | %                           | 85-114       | 1  |          | 06/14/08 01:34 | 1868-53-7  |      |
| Toluene-d8 (S)             | 99      | %                           | 82-114       | 1  |          | 06/14/08 01:34 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 112     | %                           | 85-119       | 1  |          | 06/14/08 01:34 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 103     | %                           | 81-118       | 1  |          | 06/14/08 01:34 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0          | 1  |          | 06/14/08 01:34 |            |      |

## ANALYTICAL RESULTS

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

Sample: 175410JUN08 Lab ID: 6041763005 Collected: 06/10/08 17:54 Received: 06/12/08 09:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0          | 1  |          | 06/14/08 01:49 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0          | 1  |          | 06/14/08 01:49 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0          | 1  |          | 06/14/08 01:49 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0          | 1  |          | 06/14/08 01:49 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 97 %    |                             | 85-114       | 1  |          | 06/14/08 01:49 | 1868-53-7  |      |
| Toluene-d8 (S)             | 100 %   |                             | 82-114       | 1  |          | 06/14/08 01:49 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 112 %   |                             | 85-119       | 1  |          | 06/14/08 01:49 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 105 %   |                             | 81-118       | 1  |          | 06/14/08 01:49 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0          | 1  |          | 06/14/08 01:49 |            |      |

## ANALYTICAL RESULTS

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

Sample: 180410JUN08 Lab ID: 6041763006 Collected: 06/10/08 18:04 Received: 06/12/08 09:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 06/14/08 02:04 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 06/14/08 02:04 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 06/14/08 02:04 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 06/14/08 02:04 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 96      | %                           | 85-114       | 1  |          | 06/14/08 02:04 | 1868-53-7  |      |
| Toluene-d8 (S)             | 99      | %                           | 82-114       | 1  |          | 06/14/08 02:04 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 111     | %                           | 85-119       | 1  |          | 06/14/08 02:04 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 105     | %                           | 81-118       | 1  |          | 06/14/08 02:04 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0          | 1  |          | 06/14/08 02:04 |            |      |

## ANALYTICAL RESULTS

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

Sample: 182110JUN08 Lab ID: 6041763007 Collected: 06/10/08 18:21 Received: 06/12/08 09:00 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results  | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|----------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |          | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | 4.6 ug/L |                             | 1.0          | 1  |          | 06/14/08 02:19 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L  |                             | 1.0          | 1  |          | 06/14/08 02:19 | 100-41-4   |      |
| Toluene                    | ND ug/L  |                             | 1.0          | 1  |          | 06/14/08 02:19 | 108-88-3   |      |
| Xylene (Total)             | 3.7 ug/L |                             | 3.0          | 1  |          | 06/14/08 02:19 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 97 %     |                             | 85-114       | 1  |          | 06/14/08 02:19 | 1868-53-7  |      |
| Toluene-d8 (S)             | 98 %     |                             | 82-114       | 1  |          | 06/14/08 02:19 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 113 %    |                             | 85-119       | 1  |          | 06/14/08 02:19 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %    |                             | 81-118       | 1  |          | 06/14/08 02:19 | 17060-07-0 |      |
| Preservation pH            | 1.0      |                             | 1.0          | 1  |          | 06/14/08 02:19 |            |      |

### QUALITY CONTROL DATA

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

|                                                                                                |           |                       |                    |
|------------------------------------------------------------------------------------------------|-----------|-----------------------|--------------------|
| QC Batch:                                                                                      | MSV/15178 | Analysis Method:      | EPA 8260           |
| QC Batch Method:                                                                               | EPA 8260  | Analysis Description: | 8260 MSV UST-WATER |
| Associated Lab Samples: 6041763002, 6041763003, 6041763004, 6041763005, 6041763006, 6041763007 |           |                       |                    |

METHOD BLANK: 340016

Associated Lab Samples: 6041763002, 6041763003, 6041763004, 6041763005, 6041763006, 6041763007

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 98           | 81-118          |            |
| 4-Bromofluorobenzene (S)  | %     | 108          | 85-119          |            |
| Dibromofluoromethane (S)  | %     | 94           | 85-114          |            |
| Toluene-d8 (S)            | %     | 100          | 82-114          |            |

LABORATORY CONTROL SAMPLE: 340017

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 11.3       | 113       | 87-117       |            |
| Ethylbenzene              | ug/L  | 10          | 11.0       | 110       | 84-123       |            |
| Toluene                   | ug/L  | 10          | 10.8       | 108       | 81-124       |            |
| Xylene (Total)            | ug/L  | 30          | 33.6       | 112       | 83-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 94        | 81-118       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 105       | 85-119       |            |
| Dibromofluoromethane (S)  | %     |             |            | 96        | 85-114       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 82-114       |            |

## QUALIFIERS

Project: NMGW CHMB & PTRSN  
Pace Project No.: 6041763

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### BATCH QUALIFIERS

Batch: MSV/15178

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

www.paceanalytical.com

Required Client Information: Section B

Report To: M. HARVEY  
Copy To: \_\_\_\_\_  
Invoice To: \_\_\_\_\_  
P.O. \_\_\_\_\_  
Project Name: NMGW  
Project Number: CHMS + PRSN

Page: 1 of 1

795475

Section C

To Be Completed by Pace Analytical and Client  
Quote Reference: \_\_\_\_\_  
Project Manager: \_\_\_\_\_  
Project #: 605467023  
Profile #: \_\_\_\_\_

Requested Analysis: \_\_\_\_\_

| ITEM # | Section D |   | Required Client Information:             |   |   |   |   |   |   |   |   |   | Valid Matrix Codes ← |         | MATRIX CODE | DATE COLLECTED<br>mm / dd / yy | TIME COLLECTED<br>hh:mm a/p | # Containers | Preservatives |      |     |      |     |        |       |      | Remarks / Lab ID |    |    |    |    |    |    |    |             |                                |                  |     |      |                                 |          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
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|        | SAMPLE ID |   | One character per box.<br>(A-Z, 0-9 / -) |   |   |   |   |   |   |   |   |   | MATRIX               |         |             |                                |                             |              | WATER         | SOIL | OIL | WIPE | AIR | TISSUE | OTHER | CODE |                  | WT | SL | OL | WP | AR | TS | OT | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl | NaOH | Na <sub>2</sub> SO <sub>3</sub> | Methanol | Other |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |
| 1      | 1         | 4 | 1                                        | 5 | 2 | 8 | 2 | 1 | 1 | 1 | 1 | 1 | WT                   | 6/10/08 | 18:48       | 2                              |                             |              |               |      |     |      |     |        |       |      |                  |    |    |    |    |    |    |    |             |                                |                  |     |      |                                 |          |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | </ |

| RELINQUISHED BY / AFFILIATION |  |  |  | ACCEPTED BY / AFFILIATION |  |  |  | DATE |  | TIME          |  |
|-------------------------------|--|--|--|---------------------------|--|--|--|------|--|---------------|--|
| M. HARVEY / mts               |  |  |  | FEO-X                     |  |  |  | 6-11 |  | 9:30a         |  |
|                               |  |  |  | Dad Harvey                |  |  |  |      |  | 6/12/08 04:00 |  |
|                               |  |  |  |                           |  |  |  |      |  |               |  |
|                               |  |  |  |                           |  |  |  |      |  |               |  |

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: MARK HARVEY  
SIGNATURE of SAMPLER: [Signature]  
DATE Signed: (MM / DD / YY) 6/11/08



Pace Analytical Services, Inc.  
9608 Loiret Blvd.  
Lenexa, KS 66219  
(913)599-5665

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NMGW CHMB & PTRSN

Pace Project No.: 6041763

| Lab ID     | Sample ID   | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-------------|-----------------|-----------|-------------------|------------------|
| 6041763002 | 184810JUN08 | EPA 8260        | MSV/15178 |                   |                  |
| 6041763003 | 185610JUN08 | EPA 8260        | MSV/15178 |                   |                  |
| 6041763004 | 174110JUN08 | EPA 8260        | MSV/15178 |                   |                  |
| 6041763005 | 175410JUN08 | EPA 8260        | MSV/15178 |                   |                  |
| 6041763006 | 180410JUN08 | EPA 8260        | MSV/15178 |                   |                  |
| 6041763007 | 182110JUN08 | EPA 8260        | MSV/15178 |                   |                  |



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April 05, 2008

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

RE: Project: NMGW PTRSN  
Pace Project No.: 6037848

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colleen Koporc

colleen.koporc@pacelabs.com  
Project Manager

A2LA Certification Number: 2456.01  
Arkansas Certification Number: 05-008-0  
Illinois Certification Number: 001191  
Iowa Certification Number: 118  
Kansas/NELAP Certification Number: E-10116  
Louisiana Certification Number: 03055  
Oklahoma Certification Number: 9205/9935  
Utah Certification Number: 9135995665

Enclosures

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: NMGW PTRSN  
Pace Project No.: 6037848

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 6037848001 | EDD         | Water  | 03/26/08 16:15 | 03/29/08 08:40 |
| 6037848002 | 161526MAR08 | Water  | 03/26/08 16:15 | 03/29/08 08:40 |
| 6037848003 | 160826MAR08 | Water  | 03/26/08 16:08 | 03/29/08 08:40 |
| 6037848004 | 155226MAR08 | Water  | 03/26/08 15:52 | 03/29/08 08:40 |
| 6037848005 | 154226MAR08 | Water  | 03/26/08 15:42 | 03/29/08 08:40 |
| 6037848006 | 153126MAR08 | Water  | 03/26/08 15:31 | 03/29/08 08:40 |

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: NMGW PTRSN  
Pace Project No.: 6037848

| Lab ID     | Sample ID   | Method   | Analysts | Analytes Reported |
|------------|-------------|----------|----------|-------------------|
| 6037848002 | 161526MAR08 | EPA 8260 | GEF      | 9                 |
| 6037848003 | 160826MAR08 | EPA 8260 | GEF      | 9                 |
| 6037848004 | 155226MAR08 | EPA 8260 | GEF      | 9                 |
| 6037848005 | 154226MAR08 | EPA 8260 | GEF      | 9                 |
| 6037848006 | 153126MAR08 | EPA 8260 | GEF      | 9                 |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NMGW PTRSN  
Pace Project No.: 6037848

| Sample: 161526MAR08        |          | Lab ID: 6037848002          | Collected: 03/26/08 16:15 | Received: 03/29/08 08:40 | Matrix: Water |                |            |      |
|----------------------------|----------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results  | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |          | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | 2.1 ug/L |                             | 1.0                       | 1                        |               | 04/03/08 00:27 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L  |                             | 1.0                       | 1                        |               | 04/03/08 00:27 | 100-41-4   |      |
| Toluene                    | ND ug/L  |                             | 1.0                       | 1                        |               | 04/03/08 00:27 | 108-88-3   |      |
| Xylene (Total)             | 3.0 ug/L |                             | 3.0                       | 1                        |               | 04/03/08 00:27 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 102 %    |                             | 85-114                    | 1                        |               | 04/03/08 00:27 | 1868-53-7  |      |
| Toluene-d8 (S)             | 99 %     |                             | 82-114                    | 1                        |               | 04/03/08 00:27 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 104 %    |                             | 85-119                    | 1                        |               | 04/03/08 00:27 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 103 %    |                             | 81-118                    | 1                        |               | 04/03/08 00:27 | 17060-07-0 |      |
| Preservation pH            | 1.0      |                             | 1.0                       | 1                        |               | 04/03/08 00:27 |            |      |

## ANALYTICAL RESULTS

Project: NMGW PTRSN

Pace Project No.: 6037848

| Sample: 160826MAR08        |         | Lab ID: 6037848003          | Collected: 03/26/08 16:08 | Received: 03/29/08 08:40 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 00:45 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 00:45 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 00:45 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 04/03/08 00:45 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 103 %   |                             | 85-114                    | 1                        |               | 04/03/08 00:45 | 1868-53-7  |      |
| Toluene-d8 (S)             | 101 %   |                             | 82-114                    | 1                        |               | 04/03/08 00:45 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 97 %    |                             | 85-119                    | 1                        |               | 04/03/08 00:45 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %   |                             | 81-118                    | 1                        |               | 04/03/08 00:45 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 04/03/08 00:45 |            |      |

## ANALYTICAL RESULTS

Project: NMGW PTRSN  
Pace Project No.: 6037848

| Sample: 155226MAR08        |         | Lab ID: 6037848004          | Collected: 03/26/08 15:52 | Received: 03/29/08 08:40 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0                       | 1                        |               | 04/03/08 01:02 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0                       | 1                        |               | 04/03/08 01:02 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0                       | 1                        |               | 04/03/08 01:02 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0                       | 1                        |               | 04/03/08 01:02 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 103     | %                           | 85-114                    | 1                        |               | 04/03/08 01:02 | 1868-53-7  |      |
| Toluene-d8 (S)             | 101     | %                           | 82-114                    | 1                        |               | 04/03/08 01:02 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 98      | %                           | 85-119                    | 1                        |               | 04/03/08 01:02 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 107     | %                           | 81-118                    | 1                        |               | 04/03/08 01:02 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 04/03/08 01:02 |            |      |

## ANALYTICAL RESULTS

Project: NMGW PTRSN

Pace Project No.: 6037848

| Sample: 154226MAR08        |         | Lab ID: 6037848005          | Collected: 03/26/08 15:42 | Received: 03/29/08 08:40 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 01:19 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 01:19 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 01:19 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 04/03/08 01:19 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 102 %   |                             | 85-114                    | 1                        |               | 04/03/08 01:19 | 1868-53-7  |      |
| Toluene-d8 (S)             | 99 %    |                             | 82-114                    | 1                        |               | 04/03/08 01:19 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 94 %    |                             | 85-119                    | 1                        |               | 04/03/08 01:19 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %   |                             | 81-118                    | 1                        |               | 04/03/08 01:19 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 04/03/08 01:19 |            |      |

## ANALYTICAL RESULTS

Project: NMGW PTRSN

Pace Project No.: 6037848

| Sample: 153126MAR08       |         | Lab ID: 6037848006          | Collected: 03/26/08 15:31 | Received: 03/29/08 08:40 | Matrix: Water |                |            |      |
|---------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| 8260 MSV UST, Water       |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                   | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 01:37 | 71-43-2    |      |
| Ethylbenzene              | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 01:37 | 100-41-4   |      |
| Toluene                   | ND ug/L |                             | 1.0                       | 1                        |               | 04/03/08 01:37 | 108-88-3   |      |
| Xylene (Total)            | ND ug/L |                             | 3.0                       | 1                        |               | 04/03/08 01:37 | 1330-20-7  |      |
| Dibromofluoromethane (S)  | 107 %   |                             | 85-114                    | 1                        |               | 04/03/08 01:37 | 1868-53-7  |      |
| Toluene-d8 (S)            | 94 %    |                             | 82-114                    | 1                        |               | 04/03/08 01:37 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)  | 99 %    |                             | 85-119                    | 1                        |               | 04/03/08 01:37 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S) | 108 %   |                             | 81-118                    | 1                        |               | 04/03/08 01:37 | 17060-07-0 |      |
| Preservation pH           | 1.0     |                             | 1.0                       | 1                        |               | 04/03/08 01:37 |            |      |

### QUALITY CONTROL DATA

Project: NMGW PTRSN

Pace Project No.: 6037848

QC Batch: MSV/13773 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 6037848002, 6037848003, 6037848004, 6037848005, 6037848006

METHOD BLANK: 307237

Associated Lab Samples: 6037848002, 6037848003, 6037848004, 6037848005, 6037848006

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 81-118          |            |
| 4-Bromofluorobenzene (S)  | %     | 100          | 85-119          |            |
| Dibromofluoromethane (S)  | %     | 102          | 85-114          |            |
| Toluene-d8 (S)            | %     | 106          | 82-114          |            |

LABORATORY CONTROL SAMPLE: 307238

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 10.4       | 104       | 87-117       |            |
| Ethylbenzene              | ug/L  | 10          | 10.8       | 108       | 84-123       |            |
| Toluene                   | ug/L  | 10          | 10.6       | 106       | 81-124       |            |
| Xylene (Total)            | ug/L  | 30          | 32.2       | 107       | 83-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 97        | 81-118       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 97        | 85-119       |            |
| Dibromofluoromethane (S)  | %     |             |            | 98        | 85-114       |            |
| Toluene-d8 (S)            | %     |             |            | 103       | 82-114       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 307239 307240

| Parameter                 | Units | MS                |             | MSD         |           | MS         |          | MSD       |        | % Rec Limits | Max |       | Qual |
|---------------------------|-------|-------------------|-------------|-------------|-----------|------------|----------|-----------|--------|--------------|-----|-------|------|
|                           |       | 6037847002 Result | Spike Conc. | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec |        |              | RPD | RPD   |      |
| Benzene                   | ug/L  | 2100              | 200         | 200         | 2250      | 2320       | 75       | 109       | 30-162 |              | 3   | 22    |      |
| Ethylbenzene              | ug/L  | 454               | 200         | 200         | 642       | 625        | 94       | 85        | 37-154 |              | 3   | 18    |      |
| Toluene                   | ug/L  | 2500              | 200         | 200         | 2680      | 2560       | 87       | 28        | 49-143 |              | 4   | 20 M0 |      |
| Xylene (Total)            | ug/L  | 4350              | 600         | 600         | 4860      | 4880       | 86       | 89        | 32-154 |              | 0   | 15    |      |
| 1,2-Dichloroethane-d4 (S) | %     |                   |             |             |           |            | 103      | 99        | 81-118 |              |     |       |      |
| 4-Bromofluorobenzene (S)  | %     |                   |             |             |           |            | 107      | 106       | 85-119 |              |     |       |      |
| Dibromofluoromethane (S)  | %     |                   |             |             |           |            | 100      | 100       | 85-114 |              |     |       |      |
| Toluene-d8 (S)            | %     |                   |             |             |           |            | 104      | 94        | 82-114 |              |     |       |      |
| Preservation pH           |       | 1.0               |             |             | 1.0       | 1.0        |          |           |        |              | 0   |       |      |

## QUALIFIERS

Project: NMGW PTRSN

Pace Project No.: 6037848

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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### ANALYTE QUALIFIERS

M0 Matrix spike recovery was outside laboratory control limits.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NMGW PTRSN

Pace Project No.: 6037848

| Lab ID     | Sample ID   | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-------------|-----------------|-----------|-------------------|------------------|
| 6037848002 | 161526MAR08 | EPA 8260        | MSV/13773 |                   |                  |
| 6037848003 | 160826MAR08 | EPA 8260        | MSV/13773 |                   |                  |
| 6037848004 | 155226MAR08 | EPA 8260        | MSV/13773 |                   |                  |
| 6037848005 | 154226MAR08 | EPA 8260        | MSV/13773 |                   |                  |
| 6037848006 | 153126MAR08 | EPA 8260        | MSV/13773 |                   |                  |



Pace Analytical Services, Inc.  
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(913)599-5665

January 05, 2008

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

RE: Project: NM GROUNDWATER PATTERSON  
Pace Project No.: 6033302

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com  
Project Manager

A2LA Certification Number: 2456.01  
Arkansas Certification Number: 05-008-0  
Illinois Certification Number: 001191  
Iowa Certification Number: 118  
Kansas/NELAP Certification Number: E-10116  
Louisiana Certification Number: 03055  
Oklahoma Certification Number: 9205/9935  
Utah Certification Number: 9135995665

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: NM GROUNDWATER PATTERSON

Pace Project No.: 6033302

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 6033302001 | EDD         | Water  | 12/19/07 10:00 | 12/22/07 10:30 |
| 6033302002 | 100019DEC07 | Water  | 12/19/07 10:00 | 12/22/07 10:30 |
| 6033302003 | 101019DEC07 | Water  | 12/19/07 10:10 | 12/22/07 10:30 |
| 6033302004 | 104019DEC07 | Water  | 12/19/07 10:40 | 12/22/07 10:30 |
| 6033302005 | 105919DEC07 | Water  | 12/19/07 10:59 | 12/22/07 10:30 |

## REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: NM GROUNDWATER PATTERSON

Pace Project No.: 6033302

| Lab ID     | Sample ID   | Method   | Analytes<br>Reported |
|------------|-------------|----------|----------------------|
| 6033302002 | 100019DEC07 | EPA 8260 | 9                    |
| 6033302003 | 101019DEC07 | EPA 8260 | 9                    |
| 6033302004 | 104019DEC07 | EPA 8260 | 9                    |
| 6033302005 | 105919DEC07 | EPA 8260 | 9                    |

**REPORT OF LABORATORY ANALYSIS**

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## ANALYTICAL RESULTS

Project: NM GROUNDWATER PATTERSON

Pace Project No.: 6033302

Sample: 100019DEC07 Lab ID: 6033302002 Collected: 12/19/07 10:00 Received: 12/22/07 10:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 12/27/07 23:33 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 12/27/07 23:33 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 12/27/07 23:33 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 12/27/07 23:33 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 103     | %                           | 76-128       | 1  |          | 12/27/07 23:33 | 1868-53-7  |      |
| Toluene-d8 (S)             | 99      | %                           | 83-109       | 1  |          | 12/27/07 23:33 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 100     | %                           | 78-122       | 1  |          | 12/27/07 23:33 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 106     | %                           | 82-134       | 1  |          | 12/27/07 23:33 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0          | 1  |          | 12/27/07 23:33 |            |      |

## ANALYTICAL RESULTS

Project: NM GROUNDWATER PATTERSON

Pace Project No.: 6033302

Sample: 101019DEC07 Lab ID: 6033302003 Collected: 12/19/07 10:10 Received: 12/22/07 10:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 12/27/07 23:50 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 12/27/07 23:50 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 12/27/07 23:50 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 12/27/07 23:50 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 103     | %                           | 76-128       | 1  |          | 12/27/07 23:50 | 1868-53-7  |      |
| Toluene-d8 (S)             | 102     | %                           | 83-109       | 1  |          | 12/27/07 23:50 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 100     | %                           | 78-122       | 1  |          | 12/27/07 23:50 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 103     | %                           | 82-134       | 1  |          | 12/27/07 23:50 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0          | 1  |          | 12/27/07 23:50 |            |      |



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## ANALYTICAL RESULTS

Project: NM GROUNDWATER PATTERSON

Pace Project No.: 6033302

Sample: 104019DEC07 Lab ID: 6033302004 Collected: 12/19/07 10:40 Received: 12/22/07 10:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 12/28/07 00:07 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 12/28/07 00:07 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 12/28/07 00:07 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 12/28/07 00:07 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 99      | %                           | 76-128       | 1  |          | 12/28/07 00:07 | 1868-53-7  |      |
| Toluene-d8 (S)             | 96      | %                           | 83-109       | 1  |          | 12/28/07 00:07 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 100     | %                           | 78-122       | 1  |          | 12/28/07 00:07 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 103     | %                           | 82-134       | 1  |          | 12/28/07 00:07 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0          | 1  |          | 12/28/07 00:07 |            |      |

## ANALYTICAL RESULTS

Project: NM GROUNDWATER PATTERSON  
Pace Project No.: 6033302

Sample: 105919DEC07 Lab ID: 6033302005 Collected: 12/19/07 10:59 Received: 12/22/07 10:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results  | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|----------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |          | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | 1.8 ug/L |                             | 1.0          | 1  |          | 12/28/07 00:24 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L  |                             | 1.0          | 1  |          | 12/28/07 00:24 | 100-41-4   |      |
| Toluene                    | ND ug/L  |                             | 1.0          | 1  |          | 12/28/07 00:24 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L  |                             | 3.0          | 1  |          | 12/28/07 00:24 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 102 %    |                             | 76-128       | 1  |          | 12/28/07 00:24 | 1868-53-7  |      |
| Toluene-d8 (S)             | 97 %     |                             | 83-109       | 1  |          | 12/28/07 00:24 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 99 %     |                             | 78-122       | 1  |          | 12/28/07 00:24 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 108 %    |                             | 82-134       | 1  |          | 12/28/07 00:24 | 17060-07-0 |      |
| Preservation pH            | 1.0      |                             | 1.0          | 1  |          | 12/28/07 00:24 |            |      |

### QUALITY CONTROL DATA

Project: NM GROUNDWATER PATTERSON

Pace Project No.: 6033302

QC Batch: MSV/12323

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6033302002, 6033302003, 6033302004, 6033302005

METHOD BLANK: 270292

Associated Lab Samples: 6033302002, 6033302003, 6033302004, 6033302005

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 105          | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 100          | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 100          | 76-128          |            |
| Toluene-d8 (S)            | %     | 102          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 270293

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 10.3       | 103       | 79-123       |            |
| Ethylbenzene              | ug/L  | 10          | 11.6       | 116       | 76-122       |            |
| Toluene                   | ug/L  | 10          | 11.1       | 111       | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 34.5       | 115       | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 106       | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 103       | 76-128       |            |
| Toluene-d3 (S)            | %     |             |            | 107       | 83-109       |            |

## QUALIFIERS

Project: NM GROUNDWATER PATTERSON  
Pace Project No.: 6033302

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### BATCH QUALIFIERS

Batch: MSV/12323

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NM GROUNDWATER PATTERSON  
Pace Project No.: 6033302

| Lab ID     | Sample ID   | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-------------|-----------------|-----------|-------------------|------------------|
| 6033302002 | 100019DEC07 | EPA 8260        | MSV/12323 |                   |                  |
| 6033302003 | 101019DEC07 | EPA 8260        | MSV/12323 |                   |                  |
| 6033302004 | 104019DEC07 | EPA 8260        | MSV/12323 |                   |                  |
| 6033302005 | 105919DEC07 | EPA 8260        | MSV/12323 |                   |                  |

October 17, 2007

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

RE: Project: NM GW PTRSN  
Pace Project No.: 6029919

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



for Mary Jane Walls

maryjane.walls@pacelabs.com  
Project Manager

A2LA Certification Number: 2456.01  
Arkansas Certification Number: 05-008-0  
Illinois Certification Number: 001191  
Iowa Certification Number: 118  
Kansas/NELAP Certification Number: E-10116  
Louisiana Certification Number: 03055  
Oklahoma Certification Number: 9205/9935  
Utah Certification Number: 9135995665

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: NM GW PTRSN  
Pace Project No.: 6029919

| Lab ID     | Sample ID        | Matrix | Date Collected | Date Received  |
|------------|------------------|--------|----------------|----------------|
| 6029919001 | EDD DUE 10/19/07 | Water  | 10/06/07 12:57 | 10/12/07 08:50 |
| 6029919002 | 125706OCT07      | Water  | 10/06/07 12:57 | 10/12/07 08:50 |
| 6029919003 | 130806OCT07      | Water  | 10/06/07 13:08 | 10/12/07 08:50 |
| 6029919004 | 132106OCT07      | Water  | 10/06/07 13:21 | 10/12/07 08:50 |
| 6029919005 | 133406OCT07      | Water  | 10/06/07 13:34 | 10/12/07 08:50 |
| 6029919006 | 135106OCT07      | Water  | 10/06/07 13:51 | 10/12/07 08:50 |
| 6029919007 | 140506OCT07      | Water  | 10/06/07 14:05 | 10/12/07 08:50 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: NM GW PTRSN

Pace Project No.: 6029919

| Lab ID     | Sample ID   | Method   | Analytes Reported |
|------------|-------------|----------|-------------------|
| 6029919002 | 125706OCT07 | EPA 8260 | 9                 |
| 6029919003 | 130806OCT07 | EPA 8260 | 9                 |
| 6029919004 | 132106OCT07 | EPA 8260 | 9                 |
| 6029919005 | 133406OCT07 | EPA 8260 | 9                 |
| 6029919006 | 135106OCT07 | EPA 8260 | 9                 |
| 6029919007 | 140506OCT07 | EPA 8260 | 9                 |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: NM GW PTRSN

Pace Project No.: 6029919

| Sample: 125706OCT07        |         | Lab ID: 6029919002          | Collected: 10/06/07 12:57 | Received: 10/12/07 08:50 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 09:11 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 09:11 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 09:11 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 10/16/07 09:11 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 98 %    |                             | 76-128                    | 1                        |               | 10/16/07 09:11 | 1868-53-7  |      |
| Toluene-d8 (S)             | 100 %   |                             | 83-109                    | 1                        |               | 10/16/07 09:11 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 104 %   |                             | 78-122                    | 1                        |               | 10/16/07 09:11 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 96 %    |                             | 82-134                    | 1                        |               | 10/16/07 09:11 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 10/16/07 09:11 |            |      |

## ANALYTICAL RESULTS

Project: NM GW PTRSN

Pace Project No.: 6029919

| Sample: 130806OCT07        |         | Lab ID: 6029919003          | Collected: 10/06/07 13:08 | Received: 10/12/07 08:50 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 09:28 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 09:28 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 09:28 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 10/16/07 09:28 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 99 %    |                             | 76-128                    | 1                        |               | 10/16/07 09:28 | 1868-53-7  |      |
| Toluene-d3 (S)             | 99 %    |                             | 83-109                    | 1                        |               | 10/16/07 09:28 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 104 %   |                             | 78-122                    | 1                        |               | 10/16/07 09:28 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 98 %    |                             | 82-134                    | 1                        |               | 10/16/07 09:28 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 10/16/07 09:28 |            |      |

## ANALYTICAL RESULTS

Project: NM GW PTRSN  
Pace Project No.: 6029919

| Sample: 132106OCT07        |         | Lab ID: 6029919004          | Collected: 10/06/07 13:21 |    | Received: 10/12/07 08:50 |                | Matrix: Water |      |
|----------------------------|---------|-----------------------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |    |                          |                |               |      |
| Benzene                    | ND      | ug/L                        | 1.0                       | 1  |                          | 10/16/07 17:36 | 71-43-2       |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0                       | 1  |                          | 10/16/07 17:36 | 100-41-4      |      |
| Toluene                    | ND      | ug/L                        | 1.0                       | 1  |                          | 10/16/07 17:36 | 108-88-3      |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0                       | 1  |                          | 10/16/07 17:36 | 1330-20-7     |      |
| Dibromofluoromethane (S)   | 106     | %                           | 76-128                    | 1  |                          | 10/16/07 17:36 | 1868-53-7     |      |
| Toluene-d8 (S)             | 100     | %                           | 83-109                    | 1  |                          | 10/16/07 17:36 | 2037-26-5     |      |
| 4-Bromofluorobenzene (S)   | 101     | %                           | 78-122                    | 1  |                          | 10/16/07 17:36 | 460-00-4      |      |
| 1,2-Dichloroethane-d4 (S)  | 108     | %                           | 82-134                    | 1  |                          | 10/16/07 17:36 | 17060-07-0    |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1  |                          | 10/16/07 17:36 |               |      |

## ANALYTICAL RESULTS

Project: NM GW PTRSN

Pace Project No.: 6029919

| Sample: 133406OCT07        |         | Lab ID: 6029919005          | Collected: 10/06/07 13:34 | Received: 10/12/07 08:50 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 18:06 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 18:06 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 18:06 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 10/16/07 18:06 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 104 %   |                             | 76-128                    | 1                        |               | 10/16/07 18:06 | 1868-53-7  |      |
| Toluene-d8 (S)             | 100 %   |                             | 83-109                    | 1                        |               | 10/16/07 18:06 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 101 %   |                             | 78-122                    | 1                        |               | 10/16/07 18:06 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 105 %   |                             | 82-134                    | 1                        |               | 10/16/07 18:06 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 10/16/07 18:06 |            |      |

## ANALYTICAL RESULTS

Project: NM GW PTRSN  
Pace Project No.: 6029919

| Sample: 135106OCT07        |         | Lab ID: 6029919006          | Collected: 10/06/07 13:51 | Received: 10/12/07 08:50 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 06:05 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 06:05 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 10/16/07 06:05 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 10/16/07 06:05 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 98 %    |                             | 76-128                    | 1                        |               | 10/16/07 06:05 | 1868-53-7  |      |
| Toluene-d8 (S)             | 98 %    |                             | 83-109                    | 1                        |               | 10/16/07 06:05 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 103 %   |                             | 78-122                    | 1                        |               | 10/16/07 06:05 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %   |                             | 82-134                    | 1                        |               | 10/16/07 06:05 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             | 1.0                       | 1                        |               | 10/16/07 06:05 |            |      |

## ANALYTICAL RESULTS

Project: NM GW PTRSN  
Pace Project No.: 6029919

| Sample: 140506OCT07        |          | Lab ID: 6029919007          | Collected: 10/06/07 14:05 | Received: 10/12/07 08:50 | Matrix: Water |                |            |      |
|----------------------------|----------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results  | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |          | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | 6.8 ug/L |                             | 1.0                       | 1                        |               | 10/16/07 05:46 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L  |                             | 1.0                       | 1                        |               | 10/16/07 05:46 | 100-41-4   |      |
| Toluene                    | ND ug/L  |                             | 1.0                       | 1                        |               | 10/16/07 05:46 | 108-88-3   |      |
| Xylene (Total)             | 7.1 ug/L |                             | 3.0                       | 1                        |               | 10/16/07 05:46 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 90 %     |                             | 76-128                    | 1                        |               | 10/16/07 05:46 | 1868-53-7  |      |
| Toluene-d8 (S)             | 95 %     |                             | 83-109                    | 1                        |               | 10/16/07 05:46 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 102 %    |                             | 78-122                    | 1                        |               | 10/16/07 05:46 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 95 %     |                             | 82-134                    | 1                        |               | 10/16/07 05:46 | 17060-07-0 |      |
| Preservation pH            | 1.0      |                             | 1.0                       | 1                        |               | 10/16/07 05:46 |            |      |

## QUALITY CONTROL DATA

Project: NM GW PTRSN  
Pace Project No.: 6029919

QC Batch: MSV/10742 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 6029919006, 6029919007

METHOD BLANK: 241603

Associated Lab Samples: 6029919006, 6029919007

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 82           | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 96           | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 89           | 76-128          |            |
| Toluene-d8 (S)            | %     | 103          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 241604

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 10.8       | 108       | 78-123       |            |
| Ethylbenzene              | ug/L  | 10          | 11.5       | 115       | 76-122       |            |
| Toluene                   | ug/L  | 10          | 11.3       | 113       | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 35.7       | 119       | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 85        | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 95        | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 98        | 76-128       |            |
| Toluene-d8 (S)            | %     |             |            | 107       | 83-109       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 241605 241606

| Parameter                 | Units | 6029910002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual |
|---------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|------|
| Benzene                   | ug/L  | ND                | 10             | 10              | 8.6       | 8.6        | 86       | 86        | 44-160       | 0       | 19   |
| Ethylbenzene              | ug/L  | ND                | 10             | 10              | 7.8       | 7.7        | 76       | 76        | 44-152       | 0       | 31   |
| Toluene                   | ug/L  | ND                | 10             | 10              | 8.2       | 7.8        | 77       | 73        | 63-135       | 5       | 37   |
| Xylene (Total)            | ug/L  | ND                | 30             | 30              | 25.7      | 25.5       | 84       | 83        | 54-144       | 1       | 23   |
| 1,2-Dichloroethane-d4 (S) | %     |                   |                |                 |           |            | 86       | 88        | 82-134       |         |      |
| 4-Bromofluorobenzene (S)  | %     |                   |                |                 |           |            | 99       | 99        | 78-122       |         |      |
| Dibromofluoromethane (S)  | %     |                   |                |                 |           |            | 89       | 91        | 76-128       |         |      |
| Toluene-d8 (S)            | %     |                   |                |                 |           |            | 100      | 99        | 83-109       |         |      |
| Preservation pH           |       | 1.0               |                |                 | 1.0       | 1.0        |          |           |              | 0       |      |

## QUALITY CONTROL DATA

Project: NM GW PTRSN

Pace Project No.: 6029919

QC Batch: MSV/10748

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6029919002, 6029919003

METHOD BLANK: 241686

Associated Lab Samples: 6029919002, 6029919003

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 95           | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 102          | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 98           | 76-128          |            |
| Toluene-d8 (S)            | %     | 100          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 241687

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 10.4       | 104       | 78-123       |            |
| Ethylbenzene              | ug/L  | 10          | 10.4       | 104       | 76-122       |            |
| Toluene                   | ug/L  | 10          | 10.0       | 100       | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 31.4       | 105       | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 93        | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 99        | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 98        | 76-128       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 83-109       |            |

## QUALITY CONTROL DATA

Project: NM GW PTRSN

Pace Project No.: 6029919

QC Batch: MSV/10758

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6029919004, 6029919005

METHOD BLANK: 241916

Associated Lab Samples: 6029919004, 6029919005

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 104          | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 100          | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 104          | 76-128          |            |
| Toluene-d8 (S)            | %     | 100          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 241917

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 9.8        | 98        | 78-123       |            |
| Ethylbenzene              | ug/L  | 10          | 9.5        | 95        | 76-122       |            |
| Toluene                   | ug/L  | 10          | 9.8        | 98        | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 28.3       | 94        | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 103       | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 98        | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 105       | 76-128       |            |
| Toluene-d8 (S)            | %     |             |            | 100       | 83-109       |            |

## QUALIFIERS

Project: NM GW PTRSN

Pace Project No.: 6029919

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### BATCH QUALIFIERS

Batch: MSV/10748

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/10758

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NM GW PTRSN  
Pace Project No.: 6029919

| Lab ID     | Sample ID   | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-------------|-----------------|-----------|-------------------|------------------|
| 6029919006 | 135106OCT07 | EPA 8260        | MSV/10742 |                   |                  |
| 6029919007 | 140506OCT07 | EPA 8260        | MSV/10742 |                   |                  |
| 6029919002 | 125706OCT07 | EPA 8260        | MSV/10748 |                   |                  |
| 6029919003 | 130806OCT07 | EPA 8260        | MSV/10748 |                   |                  |
| 6029919004 | 132106OCT07 | EPA 8260        | MSV/10758 |                   |                  |
| 6029919005 | 133406OCT07 | EPA 8260        | MSV/10758 |                   |                  |



# Sample Condition Upon Receipt

Pace Analytical

Client Name: Mile High

Project # 10029919

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other \_\_\_\_\_

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Foamies

Thermometer Used T-1108

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 2.4

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 10/12/07 KMS  
1455

Temp should be above freezing to 6°C

Comments:

|                                                                                            |                                                                                                  |                                                             |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Chain of Custody Present:                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                                                          |
| Chain of Custody Filled Out:                                                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                                                          |
| Chain of Custody Relinquished:                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                                                          |
| Sampler Name & Signature on COC:                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                                                          |
| Samples Arrived within Hold Time:                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.                                                          |
| Short Hold Time Analysis (<72hr):                                                          | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.                                                          |
| Rush Turn Around Time Requested:                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.                                                          |
| Sufficient Volume:                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.                                                          |
| Correct Containers Used:                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.                                                          |
| -Pace Containers Used:                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                                                             |
| Containers Intact:                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.                                                         |
| Filtered volume received for Dissolved tests                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.                                                         |
| Sample Labels match COC:                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.                                                         |
| -Includes date/time/ID/Analysis Matrix: <u>WT</u>                                          |                                                                                                  |                                                             |
| All containers needing preservation have been checked:                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.                                                         |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                             |
| exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | Initial when completed <u>/</u> Lot # of added preservative |
| Samples checked for dechlorination:                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                                                         |
| Headspace in VOA Vials (>6mm):                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15.                                                         |
| Trip Blank Present:                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 16.                                                         |
| Trip Blank Custody Seals Present                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |                                                             |
| Pace Trip Blank Lot # (if purchased):                                                      |                                                                                                  |                                                             |

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review:

10/13/07 for MSH

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

July 11, 2007

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

RE: Project: Patterson  
Pace Project No.: 6025336

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary Jane Walls

maryjane.walls@pacelabs.com  
Project Manager

A2LA Certification Number: 2456.01  
Arkansas Certification Number: 05-008-0  
Illinois Certification Number: 001191  
Iowa Certification Number: 118  
Kansas/NELAP Certification Number: E-10116  
Louisiana Certification Number: 03055  
Oklahoma Certification Number: 9205/9935  
Utah Certification Number: 9135995665

Enclosures

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Patterson  
Pace Project No.: 6025336

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 6025336001 | 163326JUN07 | Water  | 06/26/07 16:33 | 07/06/07 08:30 |
| 6025336002 | 164626JUN07 | Water  | 06/26/07 16:46 | 07/06/07 08:30 |
| 6025336003 | 170426JUN07 | Water  | 06/26/07 17:04 | 07/06/07 08:30 |
| 6025336004 | 171926JUN07 | Water  | 06/26/07 17:19 | 07/06/07 08:30 |
| 6025336005 | 173826JUN07 | Water  | 06/26/07 17:38 | 07/06/07 08:30 |
| 6025336006 | 175126JUN07 | Water  | 06/26/07 17:51 | 07/06/07 08:30 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Patterson

Pace Project No.: 6025336

| Lab ID     | Sample ID   | Method   | Analytes Reported |
|------------|-------------|----------|-------------------|
| 6025336001 | 163326JUN07 | EPA 8260 | 9                 |
| 6025336002 | 164626JUN07 | EPA 8260 | 9                 |
| 6025336003 | 170426JUN07 | EPA 8260 | 9                 |
| 6025336004 | 171926JUN07 | EPA 8260 | 9                 |
| 6025336005 | 173826JUN07 | EPA 8260 | 9                 |
| 6025336006 | 175126JUN07 | EPA 8260 | 9                 |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Patterson

Pace Project No.: 6025336

Sample: 163326JUN07 Lab ID: 6025336001 Collected: 06/26/07 16:33 Received: 07/06/07 08:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 13:29 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 13:29 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 13:29 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 07/09/07 13:29 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 112     | %                           | 76-128       | 1  |          | 07/09/07 13:29 | 1868-53-7  |      |
| Toluene-d8 (S)             | 103     | %                           | 83-109       | 1  |          | 07/09/07 13:29 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 95      | %                           | 78-122       | 1  |          | 07/09/07 13:29 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 116     | %                           | 82-134       | 1  |          | 07/09/07 13:29 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |              | 1  |          | 07/09/07 13:29 |            |      |

## ANALYTICAL RESULTS

Project: Patterson  
Pace Project No.: 6025336

**Sample:** 164626JUN07      **Lab ID:** 6025336002      **Collected:** 06/26/07 16:46      **Received:** 07/06/07 08:30      **Matrix:** Water  
**Comments:** • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 13:45 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 13:45 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 13:45 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 07/09/07 13:45 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 108     | %                           | 76-128       | 1  |          | 07/09/07 13:45 | 1868-53-7  |      |
| Toluene-d8 (S)             | 102     | %                           | 83-109       | 1  |          | 07/09/07 13:45 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 93      | %                           | 78-122       | 1  |          | 07/09/07 13:45 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 111     | %                           | 82-134       | 1  |          | 07/09/07 13:45 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |              | 1  |          | 07/09/07 13:45 |            |      |

## ANALYTICAL RESULTS

Project: Patterson

Pace Project No.: 6025336

Sample: 170426JUN07 Lab ID: 6025336003 Collected: 06/26/07 17:04 Received: 07/06/07 08:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:01 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:01 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:01 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 07/09/07 14:01 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 108     | %                           | 76-128       | 1  |          | 07/09/07 14:01 | 1868-53-7  |      |
| Toluene-d8 (S)             | 101     | %                           | 83-109       | 1  |          | 07/09/07 14:01 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 92      | %                           | 78-122       | 1  |          | 07/09/07 14:01 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 111     | %                           | 82-134       | 1  |          | 07/09/07 14:01 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |              | 1  |          | 07/09/07 14:01 |            |      |

## ANALYTICAL RESULTS

Project: Patterson  
Pace Project No.: 6025336

**Sample:** 171926JUN07      **Lab ID:** 6025336004      **Collected:** 06/26/07 17:19      **Received:** 07/06/07 08:30      **Matrix:** Water  
**Comments:** • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:17 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:17 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:17 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 07/09/07 14:17 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 109     | %                           | 76-128       | 1  |          | 07/09/07 14:17 | 1868-53-7  |      |
| Toluene-d8 (S)             | 101     | %                           | 83-109       | 1  |          | 07/09/07 14:17 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 92      | %                           | 78-122       | 1  |          | 07/09/07 14:17 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 112     | %                           | 82-134       | 1  |          | 07/09/07 14:17 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |              | 1  |          | 07/09/07 14:17 |            |      |

## ANALYTICAL RESULTS

Project: Patterson

Pace Project No.: 6025336

Sample: 173826JUN07 Lab ID: 6025336005 Collected: 06/26/07 17:38 Received: 07/06/07 08:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | 12.6    | ug/L                        | 1.0          | 1  |          | 07/09/07 14:33 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:33 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:33 | 108-88-3   |      |
| Xylene (Total)             | 6.0     | ug/L                        | 3.0          | 1  |          | 07/09/07 14:33 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 109     | %                           | 76-128       | 1  |          | 07/09/07 14:33 | 1868-53-7  |      |
| Toluene-d8 (S)             | 103     | %                           | 83-109       | 1  |          | 07/09/07 14:33 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 91      | %                           | 78-122       | 1  |          | 07/09/07 14:33 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 112     | %                           | 82-134       | 1  |          | 07/09/07 14:33 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |              | 1  |          | 07/09/07 14:33 |            |      |

## ANALYTICAL RESULTS

Project: Patterson  
Pace Project No.: 6025336

**Sample:** 175126JUN07      **Lab ID:** 6025336006      Collected: 06/26/07 17:51      Received: 07/06/07 08:30      Matrix: Water  
**Comments:** • The samples were received outside of required temperature range. Analysis was completed upon client approval.

| Parameters                 | Results | Units                       | Report Limit | DF | Prepared | Analyzed       | CAS No.    | Qual |
|----------------------------|---------|-----------------------------|--------------|----|----------|----------------|------------|------|
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |              |    |          |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:49 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:49 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0          | 1  |          | 07/09/07 14:49 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0          | 1  |          | 07/09/07 14:49 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 112     | %                           | 76-128       | 1  |          | 07/09/07 14:49 | 1868-53-7  |      |
| Toluene-d8 (S)             | 102     | %                           | 83-109       | 1  |          | 07/09/07 14:49 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 92      | %                           | 78-122       | 1  |          | 07/09/07 14:49 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 113     | %                           | 82-134       | 1  |          | 07/09/07 14:49 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |              | 1  |          | 07/09/07 14:49 |            |      |

## QUALITY CONTROL DATA

Project: Patterson

Pace Project No.: 6025336

QC Batch: MSV/9016

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6025336001, 6025336002, 6025336003, 6025336004, 6025336005, 6025336006

METHOD BLANK: 204326

Associated Lab Samples: 6025336001, 6025336002, 6025336003, 6025336004, 6025336005, 6025336006

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 115          | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 93           | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 108          | 76-128          |            |
| Toluene-d8 (S)            | %     | 102          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 204327

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 11.6       | 116       | 78-123       |            |
| Ethylbenzene              | ug/L  | 10          | 11.1       | 111       | 76-122       |            |
| Toluene                   | ug/L  | 10          | 11.3       | 113       | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 34.0       | 113       | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 113       | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 93        | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 109       | 76-128       |            |
| Toluene-d8 (S)            | %     |             |            | 102       | 83-109       |            |

## QUALIFIERS

Project: Patterson  
Pace Project No.: 6025336

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### BATCH QUALIFIERS

Batch: MSV/9016

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Patterson

Pace Project No.: 6025336

| Lab ID     | Sample ID   | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-------------|-----------------|----------|-------------------|------------------|
| 6025336001 | 163326JUN07 | EPA 8260        | MSV/9016 |                   |                  |
| 6025336002 | 164626JUN07 | EPA 8260        | MSV/9016 |                   |                  |
| 6025336003 | 170426JUN07 | EPA 8260        | MSV/9016 |                   |                  |
| 6025336004 | 171926JUN07 | EPA 8260        | MSV/9016 |                   |                  |
| 6025336005 | 173826JUN07 | EPA 8260        | MSV/9016 |                   |                  |
| 6025336006 | 175126JUN07 | EPA 8260        | MSV/9016 |                   |                  |



April 06, 2007

Mr. Mark Harvey  
Mile High Environmental  
811 B West Apache  
Farmington, NM 87401

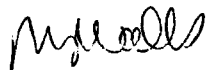
RE: Project: Patterson Ia  
Pace Project No.: 6020672

Dear Mr. Harvey:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary Jane Walls

maryjane.walls@pacelabs.com  
Project Manager

A2LA Certification Number: 2456.01  
Arkansas Certification Number: 05-008-0  
California Certification Number: 02109CA  
Illinois Certification Number: 001191  
Iowa Certification Number: 118  
Kansas/NELAP Certification Number: E-10116  
Louisiana Certification Number: 03055  
Oklahoma Certification Number: 9205/9935  
Utah Certification Number: 9135995665

Enclosures

cc: Mr. Jim Struhs, MILE HIGH ENVIRONMENTAL

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Patterson Ia

Pace Project No.: 6020672

| Lab ID     | Sample ID   | Matrix | Date Collected | Date Received  |
|------------|-------------|--------|----------------|----------------|
| 6020672001 | 185520MAR07 | Water  | 03/20/07 18:55 | 03/30/07 08:35 |
| 6020672002 | 191020MAR07 | Water  | 03/20/07 19:10 | 03/30/07 08:35 |
| 6020672003 | 191520MAR07 | Water  | 03/20/07 19:15 | 03/30/07 08:35 |
| 6020672004 | 192920MAR08 | Water  | 03/20/07 19:29 | 03/30/07 08:35 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Patterson Ia

Pace Project No.: 6020672

| Lab ID     | Sample ID   | Method   | Analytes Reported |
|------------|-------------|----------|-------------------|
| 6020672001 | 185520MAR07 | EPA 8260 | 9                 |
| 6020672002 | 191020MAR07 | EPA 8260 | 9                 |
| 6020672003 | 191520MAR07 | EPA 8260 | 9                 |
| 6020672004 | 192920MAR08 | EPA 8260 | 9                 |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Patterson Ia

Pace Project No.: 6020672

| Sample: 185520MAR07       |         | Lab ID: 6020672001          |        | Collected: 03/20/07 18:55 |    | Received: 03/30/07 08:35 |            | Matrix: Water |      |
|---------------------------|---------|-----------------------------|--------|---------------------------|----|--------------------------|------------|---------------|------|
| Parameters                |         | Results                     | Units  | Report Limit              | DF | Prepared                 | Analyzed   | CAS No.       | Qual |
| 8260 MSV UST, Water       |         | Analytical Method: EPA 8260 |        |                           |    |                          |            |               |      |
| Benzene                   | ND ug/L |                             | 1.0    | 1                         |    | 04/04/07 15:36           | 71-43-2    |               |      |
| Ethylbenzene              | ND ug/L |                             | 1.0    | 1                         |    | 04/04/07 15:36           | 100-41-4   |               |      |
| Toluene                   | ND ug/L |                             | 1.0    | 1                         |    | 04/04/07 15:36           | 108-88-3   |               |      |
| Xylene (Total)            | ND ug/L |                             | 3.0    | 1                         |    | 04/04/07 15:36           | 1330-20-7  |               |      |
| Dibromofluoromethane (S)  | 99 %    |                             | 76-128 | 1                         |    | 04/04/07 15:36           | 1868-53-7  |               |      |
| Toluene-d8 (S)            | 103 %   |                             | 83-109 | 1                         |    | 04/04/07 15:36           | 2037-26-5  |               |      |
| 4-Bromofluorobenzene (S)  | 105 %   |                             | 78-122 | 1                         |    | 04/04/07 15:36           | 460-00-4   |               |      |
| 1,2-Dichloroethane-d4 (S) | 102 %   |                             | 82-134 | 1                         |    | 04/04/07 15:36           | 17060-07-0 |               |      |
| Preservation pH           | 1.0     |                             |        | 1                         |    | 04/04/07 15:36           |            |               |      |

## ANALYTICAL RESULTS

Project: Patterson Ia

Pace Project No.: 6020672

| Sample: 191020MAR07        |         | Lab ID: 6020672002          | Collected: 03/20/07 19:10 | Received: 03/30/07 08:35 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND ug/L |                             | 1.0                       | 1                        |               | 04/04/07 14:46 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L |                             | 1.0                       | 1                        |               | 04/04/07 14:46 | 100-41-4   |      |
| Toluene                    | ND ug/L |                             | 1.0                       | 1                        |               | 04/04/07 14:46 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L |                             | 3.0                       | 1                        |               | 04/04/07 14:46 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 100 %   |                             | 76-128                    | 1                        |               | 04/04/07 14:46 | 1868-53-7  |      |
| Toluene-d8 (S)             | 101 %   |                             | 83-109                    | 1                        |               | 04/04/07 14:46 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 106 %   |                             | 78-122                    | 1                        |               | 04/04/07 14:46 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 98 %    |                             | 82-134                    | 1                        |               | 04/04/07 14:46 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |                           | 1                        |               | 04/04/07 14:46 |            |      |

## ANALYTICAL RESULTS

Project: Patterson Ia

Pace Project No.: 6020672

| Sample: 191520MAR07        |         | Lab ID: 6020672003          | Collected: 03/20/07 19:15 | Received: 03/30/07 08:35 | Matrix: Water |                |            |      |
|----------------------------|---------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |         | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | ND      | ug/L                        | 1.0                       | 1                        |               | 04/05/07 15:36 | 71-43-2    |      |
| Ethylbenzene               | ND      | ug/L                        | 1.0                       | 1                        |               | 04/05/07 15:36 | 100-41-4   |      |
| Toluene                    | ND      | ug/L                        | 1.0                       | 1                        |               | 04/05/07 15:36 | 108-88-3   |      |
| Xylene (Total)             | ND      | ug/L                        | 3.0                       | 1                        |               | 04/05/07 15:36 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 103     | %                           | 76-128                    | 1                        |               | 04/05/07 15:36 | 1868-53-7  | H1   |
| Toluene-d8 (S)             | 102     | %                           | 83-109                    | 1                        |               | 04/05/07 15:36 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 98      | %                           | 78-122                    | 1                        |               | 04/05/07 15:36 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 96      | %                           | 82-134                    | 1                        |               | 04/05/07 15:36 | 17060-07-0 |      |
| Preservation pH            | 1.0     |                             |                           | 1                        |               | 04/05/07 15:36 |            |      |

## ANALYTICAL RESULTS

Project: Patterson Ia

Pace Project No.: 6020672

| Sample: 192920MAR08        |           | Lab ID: 6020672004          | Collected: 03/20/07 19:29 | Received: 03/30/07 08:35 | Matrix: Water |                |            |      |
|----------------------------|-----------|-----------------------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters                 | Results   | Units                       | Report Limit              | DF                       | Prepared      | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |           | Analytical Method: EPA 8260 |                           |                          |               |                |            |      |
| Benzene                    | 18.0 ug/L |                             | 1.0                       | 1                        |               | 04/04/07 15:03 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L   |                             | 1.0                       | 1                        |               | 04/04/07 15:03 | 100-41-4   |      |
| Toluene                    | ND ug/L   |                             | 1.0                       | 1                        |               | 04/04/07 15:03 | 108-88-3   |      |
| Xylene (Total)             | 11.8 ug/L |                             | 3.0                       | 1                        |               | 04/04/07 15:03 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 95 %      |                             | 76-128                    | 1                        |               | 04/04/07 15:03 | 1868-53-7  |      |
| Toluene-d8 (S)             | 102 %     |                             | 83-109                    | 1                        |               | 04/04/07 15:03 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 107 %     |                             | 78-122                    | 1                        |               | 04/04/07 15:03 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 102 %     |                             | 82-134                    | 1                        |               | 04/04/07 15:03 | 17060-07-0 |      |
| Preservation pH            | 1.0       |                             |                           | 1                        |               | 04/04/07 15:03 |            |      |

## QUALITY CONTROL DATA

Project: Patterson Ia

Pace Project No.: 6020672

QC Batch: MSV/7455 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 6020672001, 6020672002, 6020672004

METHOD BLANK: 165616

Associated Lab Samples: 6020672001, 6020672002, 6020672004

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 103          | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 96           | 76-128          |            |
| Toluene-d8 (S)            | %     | 102          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 165617

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 10.4       | 104       | 78-123       |            |
| Ethylbenzene              | ug/L  | 10          | 10.4       | 104       | 76-122       |            |
| Toluene                   | ug/L  | 10          | 10.4       | 104       | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 32.7       | 109       | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 105       | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 105       | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 101       | 76-128       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 83-109       |            |

## QUALITY CONTROL DATA

Project: Patterson Ia

Pace Project No.: 6020672

QC Batch: MSV/7459

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6020672003

METHOD BLANK: 165660

Associated Lab Samples: 6020672003

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 103          | 82-134          |            |
| 4-Bromofluorobenzene (S)  | %     | 97           | 78-122          |            |
| Dibromofluoromethane (S)  | %     | 103          | 76-128          |            |
| Toluene-d8 (S)            | %     | 102          | 83-109          |            |

LABORATORY CONTROL SAMPLE: 165661

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 11.3       | 113       | 78-123       |            |
| Ethylbenzene              | ug/L  | 10          | 11.2       | 112       | 76-122       |            |
| Toluene                   | ug/L  | 10          | 10.6       | 106       | 79-120       |            |
| Xylene (Total)            | ug/L  | 30          | 34.6       | 115       | 78-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 99        | 82-134       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 101       | 78-122       |            |
| Dibromofluoromethane (S)  | %     |             |            | 103       | 76-128       |            |
| Toluene-d8 (S)            | %     |             |            | 99        | 83-109       |            |

## QUALIFIERS

Project: Patterson Ia  
Pace Project No.: 6020672

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

### BATCH QUALIFIERS

Batch: MSV/7455

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/7459

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

***The samples in this project we analyzed outside of EPA recommended holding time.***

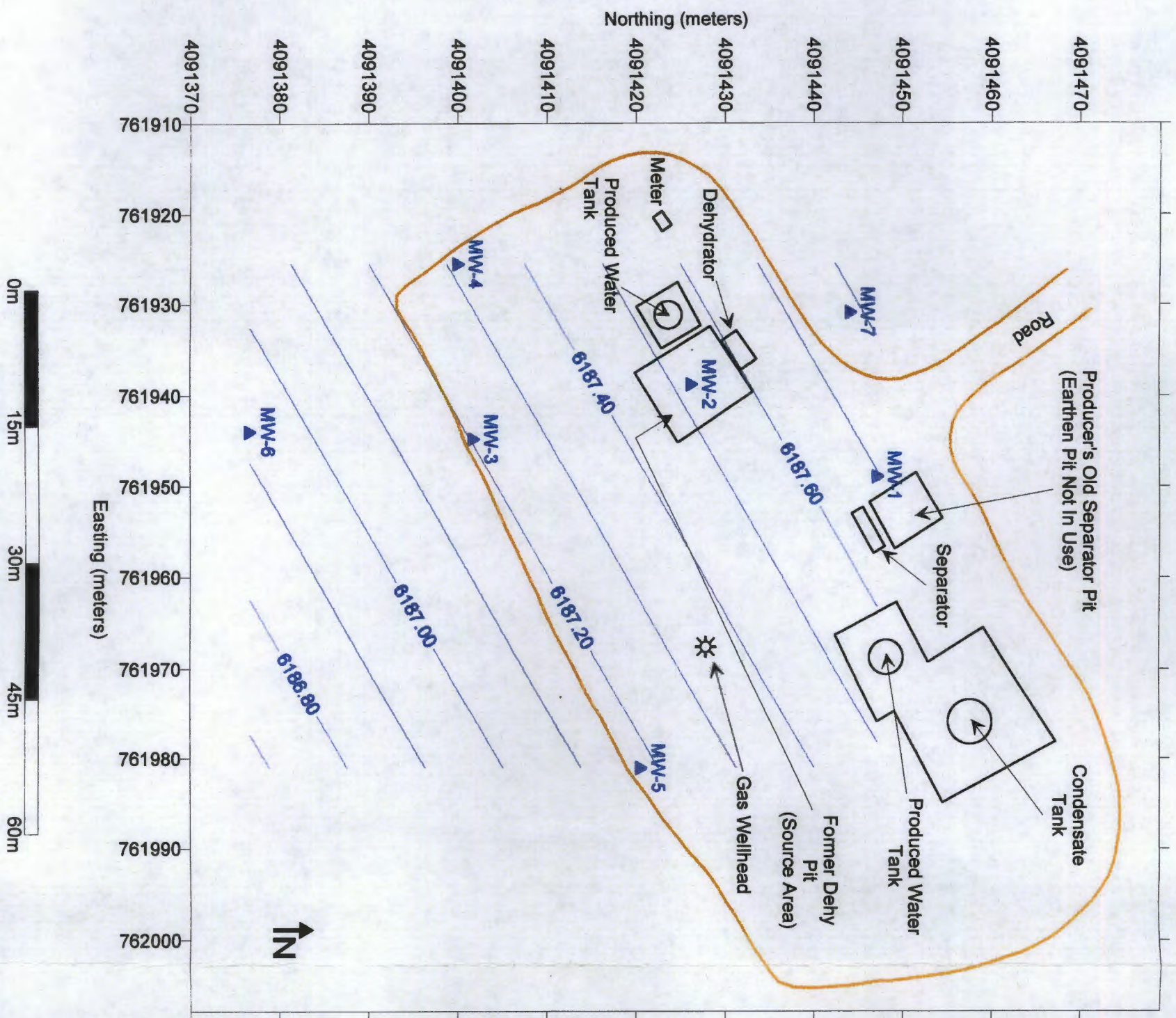
## REPORT OF LABORATORY ANALYSIS

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**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Patterson #1A**

