3R – 090 2013 AGWMR

08/22/2014



David C. Hathaway, P.E. Program Manager

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Mr. Glenn von Gonten New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

August 22, 2014

Re: NMOCD Case No. 3R-090, 2013 Annual Groundwater Monitoring Report

Dear Mr. von Gonten:

Enclosed is the 2013 Annual Groundwater Monitoring Report for the Nell Hall No. 1 site. This report, prepared by Conestoga-Rovers & Associates (CRA), contains the results of groundwater monitoring from March, June, September, and December 2013.

Please let me know if you have any questions.

Sincerely,

atheway

David C. Hathaway, P.E.

Enc



www.CRAworld.com



Final Report

2013 Annual Groundwater Monitoring Report

ConocoPhillips Nell Hall No. 1 San Juan County, New Mexico API# 30-045-09619 NMOCD# 3R-090

Prepared for: ConocoPhillips Company

Conestoga-Rovers & Associates

6121 Indian School Road, NE Suite 200 Albuquerque, New Mexico 87110



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Section 1.0 Introduction

This report presents the results of quarterly groundwater monitoring events conducted by Conestoga-Rovers & Associates (CRA) on March 28, June 12, 2013, September 11, 2013, and December 13, 2013 at the ConocoPhillips Company (ConocoPhillips), Nell Hall No. 1 remediation site (Site), located on private land in Section 07, Township 30N, Range 11W of San Juan County, New Mexico, approximately 2 miles west of the city of Aztec. Geographical coordinates for the Site are 36.821659° North, 108.037319° West. The Site consists of a natural gas well and associated equipment. The location and Site layout are presented as **Figures 1** and **2**, respectively.

1.1 Background

The history of the Site is presented in **Table 1** and is summarized in the following paragraphs.

Environmental investigation at the Site began when closure of an unlined dehydrator discharge pit was attempted in the early 1990's. Soil impacts were discovered during earthmoving activities and groundwater Monitor Wells MW-1, MW-2, and MW-3 were subsequently installed to determine if hydrocarbons had impacted groundwater beneath the Site. An ongoing drought caused the water table to fall below the screened intervals of MW-1, MW-2, and MW-3. On February 17 and 18, 2004, Souder Miller and Associates (SMA) installed Monitor Wells MW-4, MW-5, and MW-6 at sufficient depths to intersect the water table and to account for the effects of further seasonal or drought-based water table fluctuations (Souder Miller and Associates, 2004). Boring log data from MW-4 and MW-6 were used to create a geologic cross-section for the Site (**Figure 3**).

Tetra Tech, Inc. (Tetra Tech) began quarterly sampling of Monitor Wells MW-4, MW-5, and MW-6 in 2004, adjusting to a semi-annual sampling schedule in 2005, followed by annual sampling beginning in 2006. Semi-annual sampling was resumed in 2007 due to seasonal groundwater fluctuations.

It should be noted that the March 2004 groundwater sample was collected immediately following installation of MW-6 in February 2004, in which soil samples collected at 25 and 30 feet below ground surface each resulted in an exceedence of the 50 milligram per kilogram (mg/kg) regulatory limit for BTEX, and soil samples collected at 25, 30, and 35 feet bgs were found to contain total petroleum hydrocarbons (TPH) at levels greater than the 100 mg/kg regulatory limit (SMA, 2004).

On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM.

Currently, groundwater sampling is attempted quarterly, but is typically only possible semi-annually due to seasonal groundwater fluctuations which often render some monitor wells dry.

Section 2.0 Groundwater Monitoring Methodology and Analytical Results

2.1 Groundwater Monitoring Methodology

Groundwater Elevation Measurements

Depth to groundwater was gauged at Monitor Wells MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6 using an oil/water interface probe prior to sampling. Groundwater potentiometric surface maps detailing groundwater elevations, groundwater flow direction, and gradient, using data collected during the 2013 quarterly sampling events are presented as **Figures 4, 5,** and **6**, respectively. In March 2013, all monitor wells were dry, therefore no maps for this event were generated.

Hydrographs illustrating groundwater level fluctuations since March 2004 in Monitor Wells MW-5 and MW-6 are presented as **Figure 7** and **Figure 8**, respectively. These data indicate that groundwater elevations are consistently lowest during the late winter and early spring months. Historically, the groundwater flow direction and gradient vary from season to season. These fluctuations are believed to be the result of changes in irrigation rates and/or baseflow conditions in the Animas River, which, at its closest point, lies approximately 0.6 mile to the south/southeast of the Site (**Figure 1**). Additionally, there is an irrigation ditch to the east of the site which may also influence groundwater gradient. Annual variation in groundwater elevation fluctuates as much as 18 feet over the course of a year. Groundwater flow direction at the site also varies in direction from south to southeast.

Groundwater Sampling

During the 2013 quarterly groundwater monitoring events, Site monitor wells were purged of at least 3 casing volumes of groundwater using 1.5-inch diameter, polyethylene, dedicated bailers. While bailing each well, groundwater parameter data, including temperature, pH, conductivity, dissolved oxygen, and oxidation-reduction potential were collected using a YSI 556 multi-parameter Sonde and recorded on CRA Well Sampling Field Information Forms (**Appendix A**).

Groundwater samples were collected from Monitor Wells MW-4, MW-5 and MW-6 during the 2013 sampling events (except in March when Site monitor wells were dry). Approximately three well volumes were purged from each monitor well with a dedicated, polyethylene, 1.5-inch, disposable bailer prior to sampling or monitor wells were bailed dry and sampled following recharge. Purge water generated during the event was disposed of in the on-site produced water tank (**Figure 2**). Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Pace Analytical Services Inc. of Lenexa, KS.

The samples were analyzed for the presence of benzene, toluene, ethylbenzene and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260 and for dissolved iron by EPA Method 6010.



2.2 Groundwater Monitoring Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC).

Results of 2013 groundwater sampling events are discussed below.

<u>June 2013</u>

Benzene

 The NMWQCC domestic water supply groundwater quality standard for benzene is 0.01 milligrams per liter (mg/L). The groundwater sample collected in June 2013 from Monitor Well MW-6 exceeded this standard with a concentration of 0.442 mg/L.

Dissolved Iron

 The groundwater quality standard for dissolved iron is 1.0 mg/L. The groundwater samples collected in June 2013 from Monitor Wells MW-4 and MW-6 contained dissolved iron at concentrations of 1.46 mg/L and 16.6 mg/L, respectively.

September 2013

Benzene

• The groundwater sample collected in September 2013 from Monitor Well MW-6 exceeded this standard with a concentration of 0.109 mg/L.

Dissolved Iron

• The groundwater sample collected in September 2013 from Monitor Well MW-6 contained dissolved iron at a concentration of 2.26 mg/L.

December 2013

Benzene

• The groundwater sample collected in December 2013 from Monitor Well MW-6 exceeded this standard with a concentration of 0.467 mg/L.



Dissolved Iron

• The groundwater sample collected in December 2013 from Monitor Well MW-6 contained dissolved iron at a concentration of 5.90 mg/L.

Benzene concentrations in MW-6 have fluctuated regularly since monitoring began in March 2004. An inverse correlation between water levels and benzene concentrations has been observed. A graph detailing this relationship is presented as **Figure 9**.

Benzene concentration maps for 2013 quarterly sampling events are presented as Figures 10, 11 and 12.

A summary of historical laboratory analytical results is presented as **Table 3**. Groundwater laboratory analytical reports can be found in **Appendix B**.

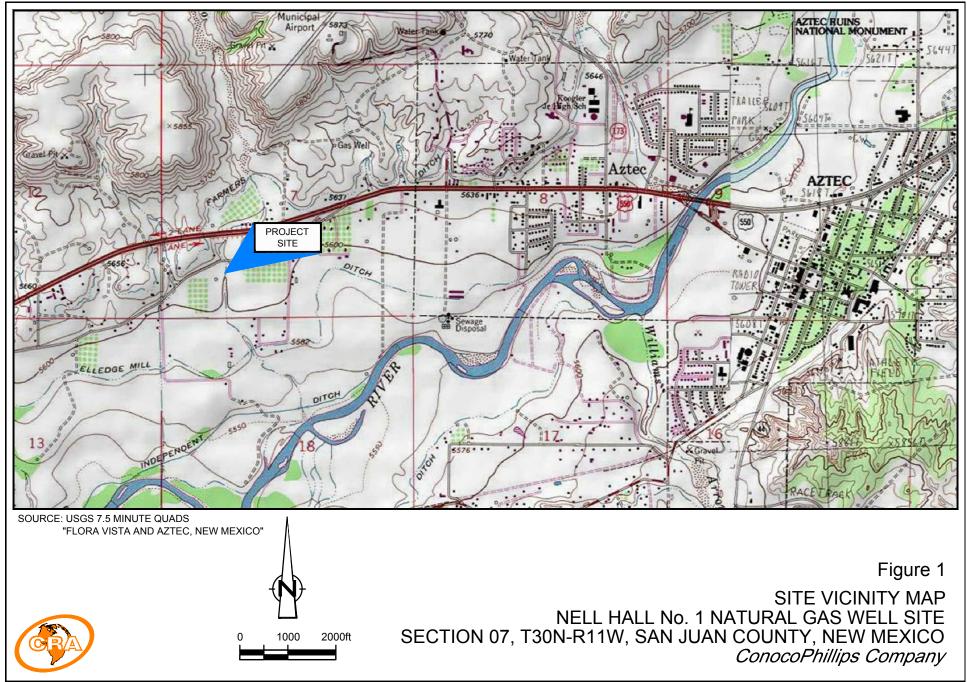
Section 3.0 Conclusion and Recommendations

Based on the detection of BTEX and dissolved iron in MW-6 during 2013 quarterly sampling events, CRA recommends continued groundwater quality monitoring for BTEX and dissolved iron in order to move toward remediation Site closure with NMOCD. Remediation Site closure will be requested when all groundwater quality parameters are below NMWQCC groundwater quality standards, are stable, or are representative of background conditions at the Site.

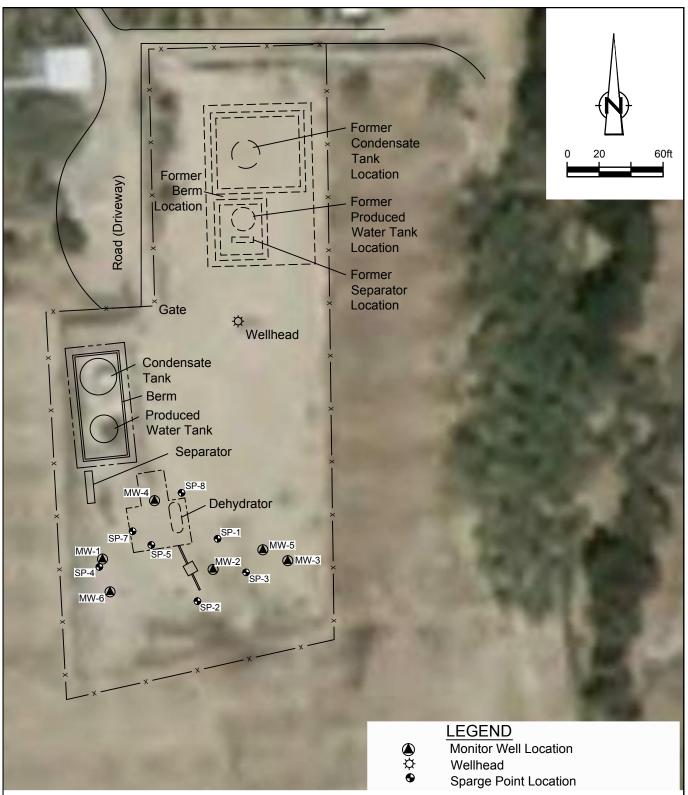
All Site monitor wells will be gauged quarterly. Monitor Wells MW-4, MW-5, and MW-6 will be sampled when possible due to the fluctuating groundwater levels at the Site.

In addition to future groundwater sampling at the site, CRA recommends the installation of additional monitor wells to further delineate groundwater impacts associated with Monitor Well MW-6. A total of three additional monitor wells are being recommended with location of the wells to the west, south, and southeast of MW-6. Proposed boring locations for additional monitor well installation are presented on **Figure 13**.





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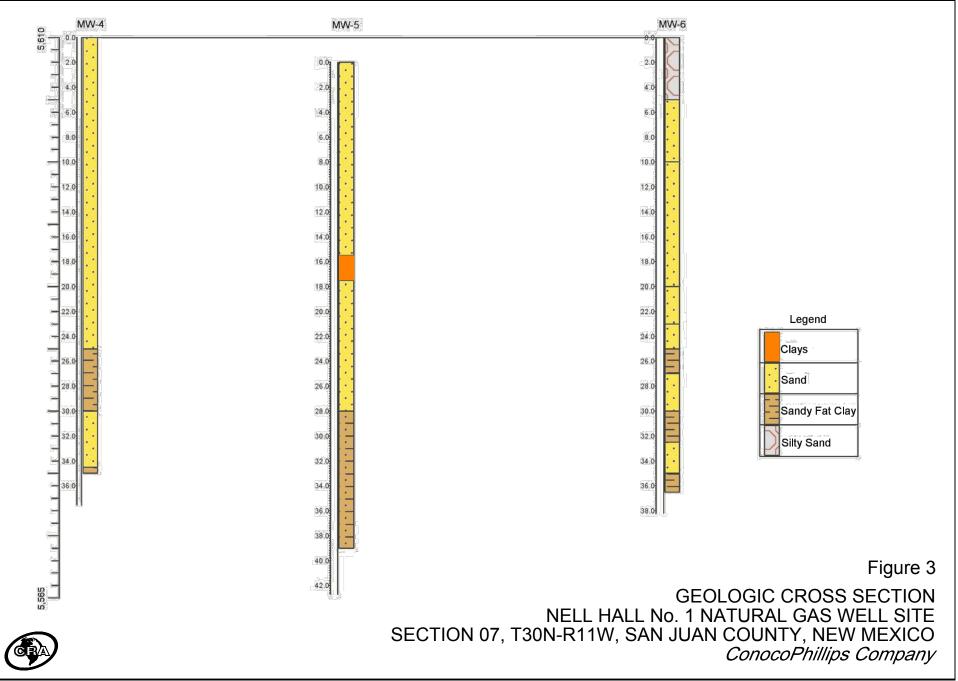


ConocoPhillips high resolution aerial imagery 2008.

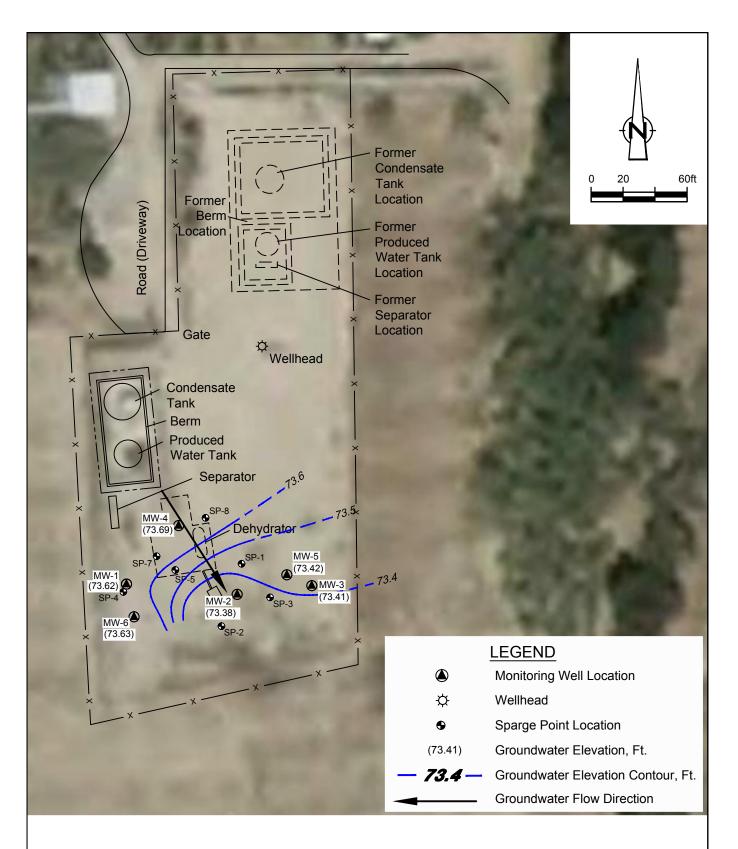
Figure 2

SITE PLAN NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

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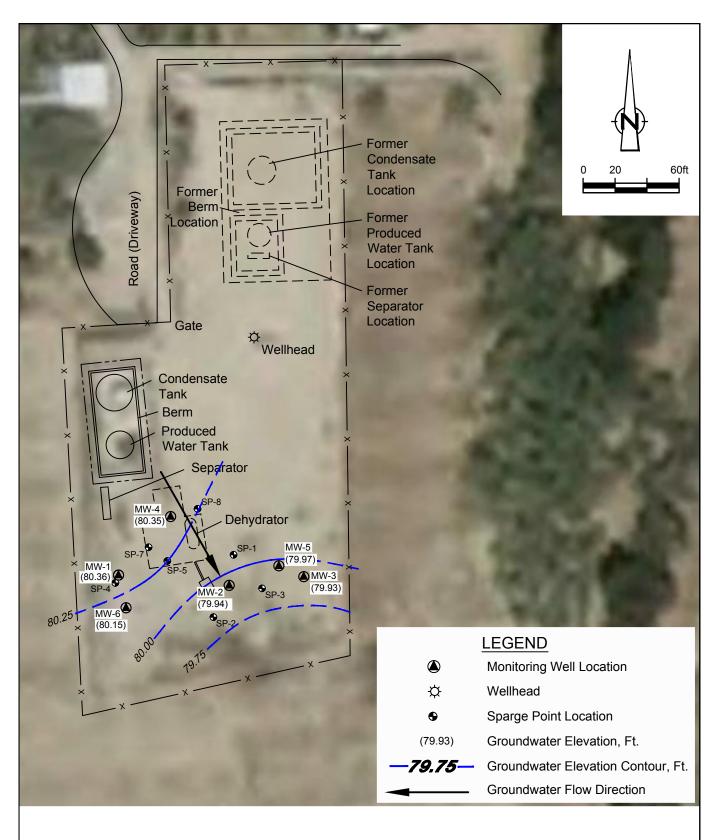


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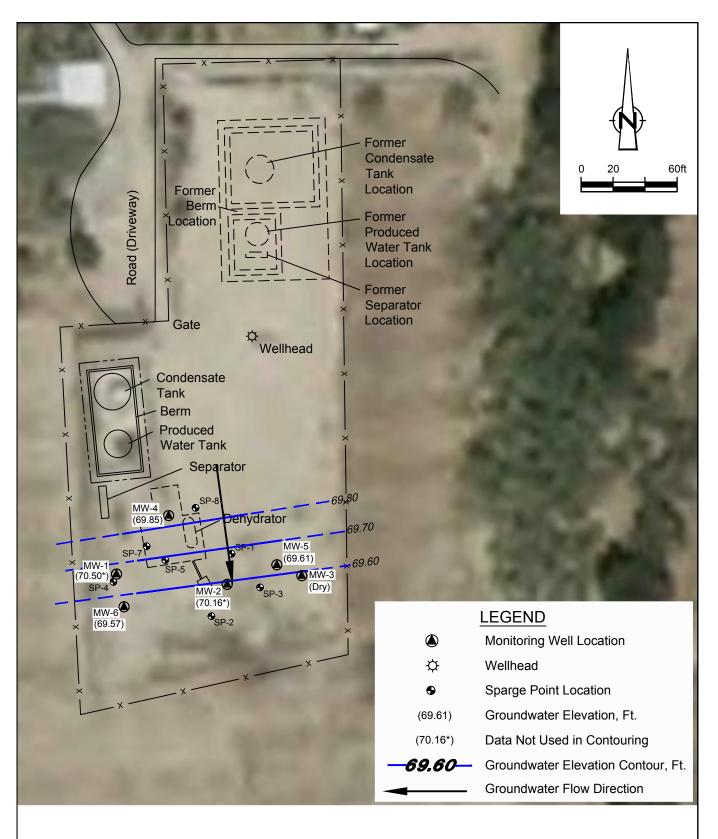
JUNE 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

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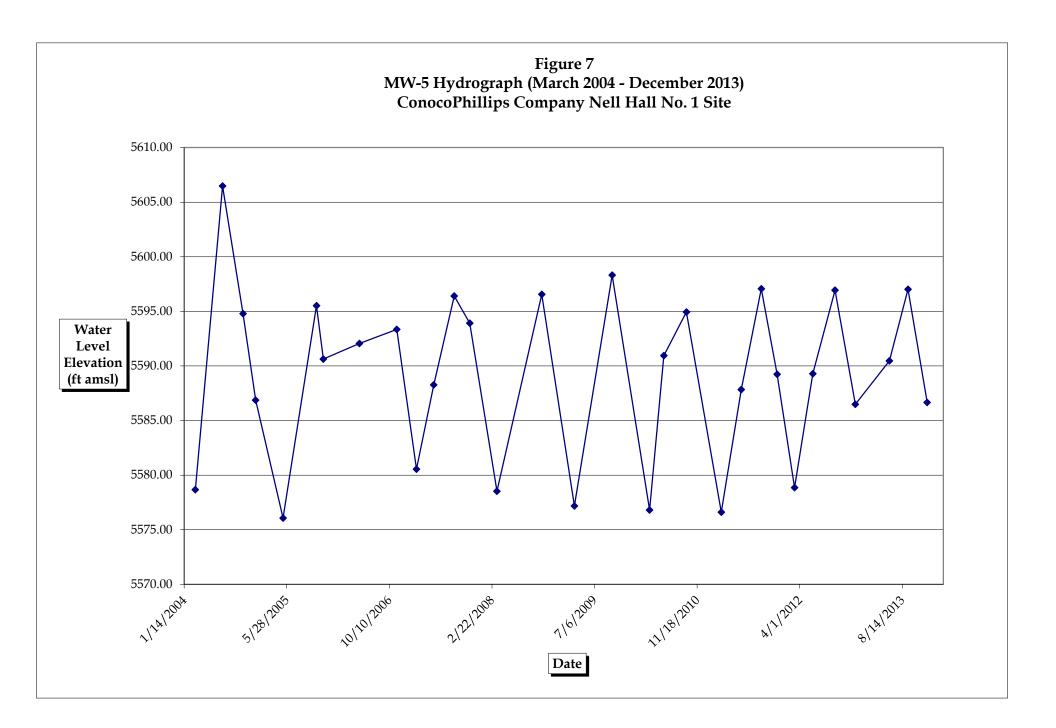
SEPTEMBER 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

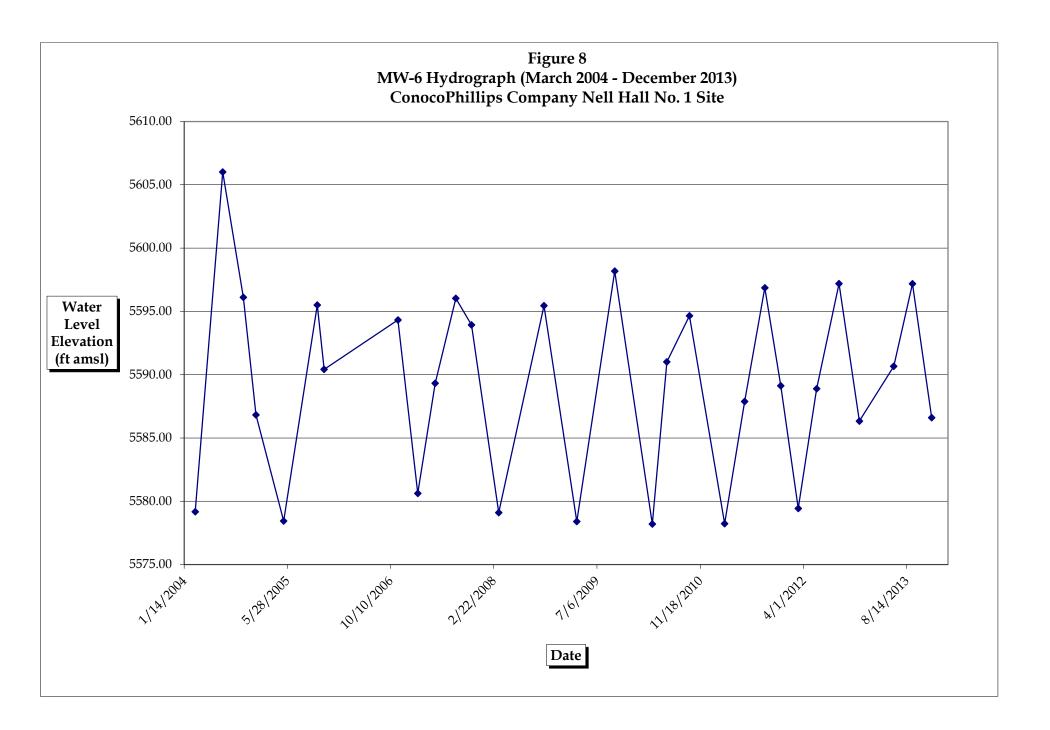
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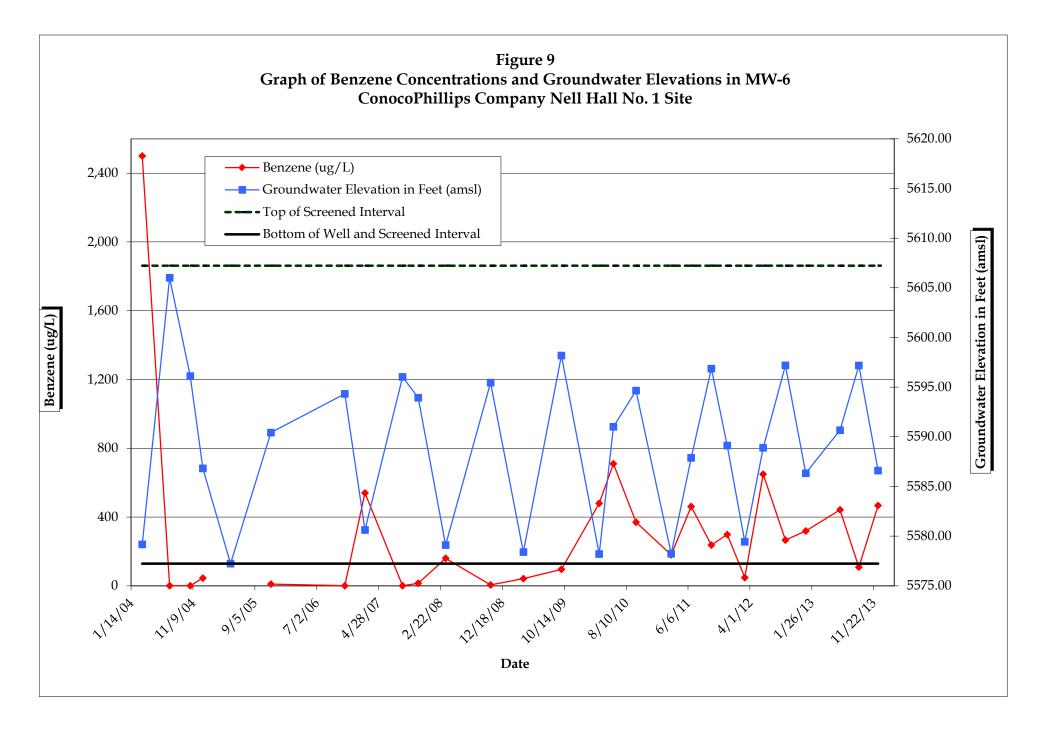


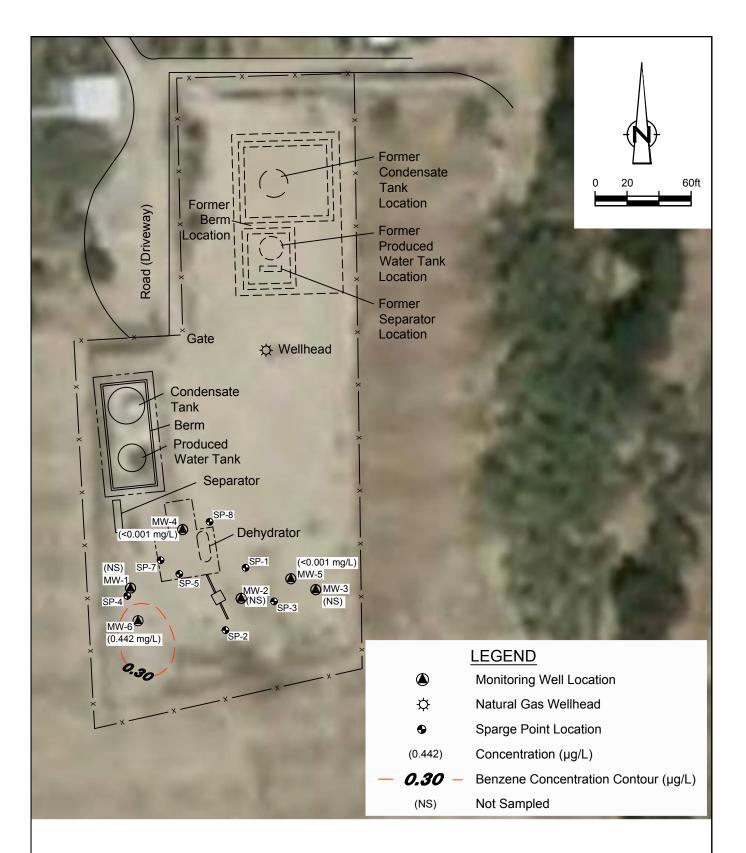
DECEMBER 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

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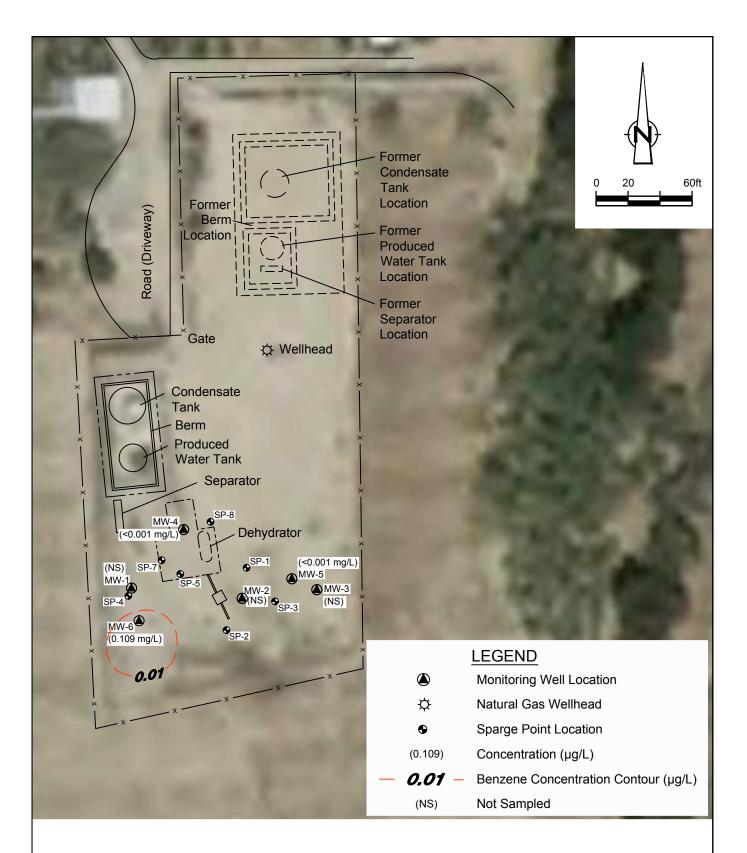






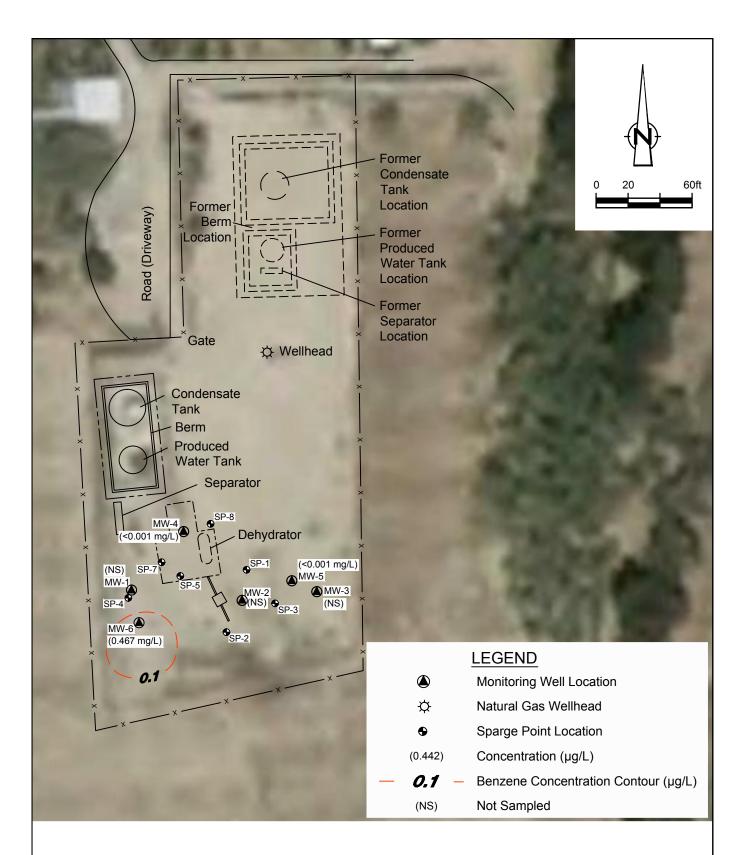
JUNE 2013 BENZENE CONCENTRATION MAP NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

074941-95(005)GN-DL002 APR 2/2014



SEPTEMBER 2013 BENZENE CONCENTRATION MAP NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

074941-95(005)GN-DL002 APR 2/2014



DECEMBER 2013 BENZENE CONCENTRATION MAP NELL HALL No. 1 NATURAL GAS WELL SITE SECTION 07, T30N-R11W, SAN JUAN COUNTY, NEW MEXICO *ConocoPhillips Company*

074941-95(005)GN-DL002 APR 2/2014

Tables



SITE HISTORY TIMELINE CONOCO PHILLIPS COMPANY NELL HALL NO. 1 SAN JUAN COUNTY

| Date/Time Period | Event/Action | Description/Comments |
|--|--|---|
| February 20, 1961 | Well Spudded | Southwest Production Company spudded the Nell Hall No. 1 natural gas production well. |
| September 1, 1963 | Operator Change | Beta Development Company acquired the Nell Hall No. 1 site from Southwest Production Company. |
| September 15, 1988 | Operator Change | Mesa Operating Limited Partnership acquired the Nell Hall No. 1 site from Beta Development Company. |
| July 1, 1991 | Operator Change | Conoco Inc. acquired the Nell Hall No. 1 from Mesa Operating Limited Partnership. |
| May 3, 1994 | Pit Remediation | Conoco stopped flow to the dehydrator, sampled the soil in the unlined dehydrator pit and encountered hydrocarbon-impacted soil. |
| August 31 through September 1, 1994 | Pit Remediation | Conoco removed the dehydrator and Flint Engineering & Construction Co. excavated soil in the vicinity of the former dehydrator pit to a depth of 16 feet. A soil sample at the bottom of the excavation revealed TPH of 380 ppm. |
| September 21 through October 7, 1994 | Pit Remediation | Flint Engineering & Construction Co. landfarmed the excavated soil on site. |
| June 1 and 2, 1995 | Soil Borings and Groundwater Sampling | Phillip Environmental Services Corp. completed initial subsurface assessment (3 temporary monitor wells and 3 additional borings). |
| June 15, 1995 | Soil Borings and Groundwater Sampling | Phillip Environmental Services Corp. completed an additional soil boring. |
| March 27, 1997 | Monitor Well Sampling | On Site Technologies, LTD found insufficient water in the 3 monitor wells for sampling. |
| June 19, 2002 | Groundwater sampling | Souder Miller and Associates (SMA) conducted groundwater sampling at the Site. Samples were collected from MW-1, and sparge points SP-6, SP-7 and SP-8. The only constituent over the NMWQCC standard was benzene in SP-7 at a concentration of 0.018 milligrams per liter (mg/L). |
| September 17, 2002 | Groundwater sampling | SMA conducted groundwater sampling at the Site. Samples were collected from MW-1, and sparge points SP-6, SP-7 and SP-8. The only constituent over the NMWQCC standard was benzene in SP-7 at a concentration of 0.021 mg/L. |
| January 1, 2003 | Operator Name Change | Conoco Inc. and Phillips Petroleum Company merged to form ConocoPhillips Company. |
| February 17 and 18, 2004 | Monitor Well Installation | Monitor Wells MW-4, MW-5, and MW-6 were installed at deeper depths (35 to 39 feet BGS) to adequately intersect the water table, since previously installed groundwater monitoring wells continually went dry. The lowest water levels at the site are found to occur in early spring and late winter. 30 to 35 feet of screen was installed in each well to allow for seasonal groundwater fluctuations of up to 25 feet. |
| March 8 through December 27, 2004 | Monitor Well Sampling | Quarterly groundwater sampling of Monitor Wells MW-4, MW-5, and MW-6; benzene spike in March (MW-6) coincides with MW-6 well installation and discovery of BTEX and TPH impacts to soil at 25-35 feet bgs in MW-6 soil samples collected during drilling. |
| May 11 through November 22, 2005 | Monitor Well Sampling | Semi-annual sampling of monitor wells MW-4, MW-5, and MW-6. |
| November 15, 2006 February 21, 2007 through October 22, 2008 | Monitor Well Sampling Monitor Well Sampling | Annual sampling of monitor wells MW-4, MW-5, and MW-6. Resumption of semi-annual sampling of Monitor Wells MW-4, MW-5, and MW-6 during summer and fall months when water is most likely to be present in wells. |
| February 6, 2009 | BTEX vs. depth to water plotted for MW-6 | BTEX concentrations show inverse relationship to water column thickness in MW- 6; plotted from 2/21/07 to 10/22/08. |
| March 30, 2009 | Monitor Well sampling | Monitor Wells MW-5 and MW-6 were sampled. MW-4 was found to be dry during the sampling event. Benzene was reported at a concentration above the groundwater quality standard in MW-6 with a concentration of 0.042 mg/L. |
| September 30, 2009 | Monitor Well Sampling | Groundwater samples were collected from MW-4, MW-5 and MW-6. MW-6 indicated a benzene concentration of 0.096 mg/L and a dissolved iron concentration of 1.06 mg/L. |
| March 31 and April 1, 2010 | Monitor Well Sampling | Groundwater samples collected from MW-5 and MW-6; MW-4 was dry. MW-6 indicated a benzene concentration of 0.480 mg/L and a sample for dissolved iron was not obtained due to low water levels in MW-6. |

SITE HISTORY TIMELINE CONOCO PHILLIPS COMPANY NELL HALL NO. 1 SAN JUAN COUNTY

| Date/Time Period | Event/Action | Description/Comments |
|--------------------|---|---|
| June 9, 2010 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6 as a continuation of semi-annual sampling event. MW-6 indicated a benzene concentration of 0.710 mg/L and a dissolved iron concentration of 11.4 mg/L. |
| September 27, 2010 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. MW-6 indicated a benzene concentration of 0.30 mg/L and a dissolved iron concentration of 0.676 mg/L. |
| March 16, 2011 | Monitor Well Sampling | Groundwater samples collected from MW-5 and MW-6. MW-4 was observed to be dry during this monitoring event. Laboratory analysis of the groundwater sample from MW-6 indicated a benzene concentration of 0.18 mg/L and a dissolved iron concentration of 8.66 mg/L; however, during the March 2011 sampling event MW-6 contained a very low volume of water and the sample collected may not be representative of actual aguifer conditions. |
| June 15, 2011 | Transfer of Consulting Responsibilities to CRA | On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech of Albuquerque, NM to CRA of Albuquerque, NM. |
| June 21, 2011 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.461 mg/L, a xylenes concentration of 0.677 mg/L, and a dissolved iron concentration of 9.45 mg/L. |
| September 27, 2011 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.237 mg/L, and a dissolved iron concentration of 19.6 mg/L. |
| December 13, 2011 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.298 mg/L, and a dissolved iron concentration of 11.6 mg/L. |
| March 7, 2012 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.0477 mg/L, and a dissolved iron concentration of 22.50 mg/L. |
| June 4, 2012 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.649 mg/L, and a dissolved iron concentration of 19.2 mg/L. The sample from MW-4 indicated a dissolved iron concentration of 1.17 mg/L. |
| September 20, 2012 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.266 mg/L, and a dissolved iron concentration of 9.53 mg/L. |
| December 28, 2012 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.319 mg/L, and a dissolved iron concentration of 8.06 mg/L. |
| March 28, 2013 | Groundwater Monitoring | All site wells gauged were dry; no samples collected. |
| June 12, 2013 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.442 mg/L, and a dissolved iron concentration of 16.6 mg/L. Groundwater sampled from MW-4 indicated a dissolved iron concentration of 1.46 mg/L. |
| September 11, 2013 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.442 mg/L, and a dissolved iron concentration of 16.6 mg/L. Groundwater sampled from MW-4 indicated a dissolved iron concentration of 1.46 mg/L. |
| December 13, 2013 | Monitor Well Sampling | Groundwater samples collected from MW-4, MW-5 and MW-6. Groundwater sampled from MW-6 indicated a benzene concentration of 0.442 mg/L, and a dissolved iron concentration of 16.6 mg/L. Groundwater sampled from MW-4 indicated a dissolved iron concentration of 1.46 mg/L. |

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS CONOCOPHILLIPS COMPANY NELL HALL NO. 1 SAN JUAN COUNTY, NM

| Well ID | Total Depth | Surface Elevation | Screen Interval | Date Measured | Depth to Groundwater | Relative Water Lev |
|---------|----------------|-------------------|------------------|------------------------|-----------------------|--------------------|
| | (ft below TOC) | (amsl) | (ft bgs) | 5/10/2005 | (ft below TOC) DRY | NA |
| | | | | 10/20/2005 | 19.25 | 5596.47 |
| | | | - | 11/22/2005 | 24.15 | 5591.57 |
| | | | - | 5/17/2006 | NM | NM |
| | | | - | 11/15/2006 | 21.40 | 5594.32 |
| | | | - | 2/19/2007 | DRY | NA |
| | | | | 5/14/2007 | 24.85 | 5590.87 |
| | | 5615.72 | | 8/22/2007 | 24.61 | 5591.11 |
| | | 5615.72 | | 11/6/2007 | 20.87 | 5594.85 |
| | | | | 3/17/2008 | DRY | NA |
| | | | - | 10/22/2008 | 19.38 | 5596.34 |
| | | | | 3/30/2009 | 28.25 | 5587.47 |
| | | | - | 9/30/2009 | 16.56 | 5599.16 |
| | | | | 3/31/2010 | DRY | NA |
| MW-1 | 28.55 | | Unknown | 6/9/2010 | 24.16 | 5591.56 |
| | | | - | 9/27/2010 | 20.00 | 77.95 |
| | | | | 3/16/2011 | DRY | NA |
| | | | | 6/21/2011 | 26.80 | 71.15 |
| | | | | 9/27/2011 | 17.85 | 80.10 |
| | | | - | 12/13/2011 | 25.39 | 72.56 |
| | | | - | 3/7/2012 | DRY | NA |
| | | 97.95 | - | 6/4/2012 | 26.40 | 71.55 |
| | | | - | 9/20/2012 | 17.57 | 80.38 |
| | | | | 12/28/2012 | DRY | NA |
| | | | | 3/28/2013 | DRY | NA |
| | | | | 6/12/2013 | 24.33 | 73.62 |
| | | | + | 9/11/2013 | 17.59 | 80.36 |
| | | | F | 12/13/2013 | 27.45 | 70.50 |
| | 1 | | | 5/10/2005 | DRY | NA |
| | | | | 10/20/2005 | 18.81 | 5596.13 |
| | | | | 11/22/2005 | 23.74 | 5591.20 |
| | | | | 5/17/2006 | 22.06 | 5592.88 |
| | | | | 11/15/2006 | 22.00 | 5593.93 |
| | | | - | 2/19/2007 | DRY | NA |
| | | | - | 5/14/2007 | DRY | NA |
| | | 5614.94 | - | 8/22/2007 | 18.03 | 5596.91 |
| | | | | 11/6/2007 | 20.43 | 5594.51 |
| | | | | 3/17/2008 | DRY | NA |
| | | | | 10/22/2008 | 18.83 | 5596.11 |
| | | | | 3/30/2009 | 27.15 | 5587.79 |
| | | | - | 9/30/2009 | 16.01 | 5598.93 |
| | | | - | 3/31/2010 | DRY | NA |
| MW-2 | 27.32 | | Unknown | 6/9/2010 | 23.36 | 5591.58 |
| | | | - | 9/27/2010 | 19.42 | 77.74 |
| | | | - | 3/16/2011 | DRY | NA |
| | | | | 6/21/2011 | 26.43 | 70.73 |
| | | | - | 9/27/2011 | 17.28 | 79.88 |
| | | | - | 12/13/2011 | 25.10 | 72.06 |
| | | | - | 3/7/2012 | DRY | NA |
| | | 97.16 | - | 6/4/2012 | 25.17 | 71.99 |
| | | | | 9/20/2012 | 17.30 | 79.86 |
| | | | F | 12/28/2012 | DRY | NA |
| | | | | 3/28/2013 | DRY | NA |
| | | | | 6/12/2013 | 23.78 | 73.38 |
| | | | + | 9/11/2013 | 17.22 | 79.94 |
| | | | F | 12/13/2013 | 27.00 | 70.16 |
| | 1 | | | 5/10/2005 | DRY | NA |
| | | | | 10/20/2005 | 19.36 | 5596.17 |
| | | | | 11/22/2005 | 24.24 | 5591.29 |
| | | | + | 5/17/2006 | 22.82 | 5592.71 |
| | | | + | 11/15/2006 | 21.53 | 5594.00 |
| | | | | 2/19/2007 | DRY | NA |
| | | | | 5/14/2007 | DRY | NA |
| | | 5615.53 | I F | 8/22/2007 | 18.36 | 5597.17 |
| | | | | 11/6/2007 | 20.95 | 5594.58 |
| | | | | 3/17/2008 | DRY | NA |
| | | | F | 10/22/2008 | 19.34 | 5596.19 |
| | | | | 3/30/2009 | DRY | NA |
| | | | | 9/30/2009 | NM | NM |
| | | | I H | 3/31/2010 | DRY | NA |
| MW-3 | 27.45 | | Unknown | 6/9/2010 | 23.87 | 5591.66 |
| | | | 1 F | 9/27/2010 | 19.93 | 77.84 |
| | | | | 3/16/2011 | DRY | NA |
| | | | | 6/21/2011 | 27.06 | 70.71 |
| | | | | 9/27/2011 | 17.82 | 79.95 |
| | | | | 12/13/2011 | 25.66 | 79.93 |
| | | | F | 3/7/2012 | DRY | NA |
| | | 97.77 | F | 6/4/2012 | 25.53 | 72.24 |
| | | 21.11 | I – F | 9/20/2012 | 17.97 | 72.24 |
| | | | I – F | 12/28/2012 | DRY | 79.80 NA |
| | | | I – F | | DRY | NA |
| | | | F | 3/28/2013 6/12/2013 | 24.36 | 73.41 |
| | | | F | 9/11/2013 | 17.84 | 73.41 79.93 |
| | 1 | 1 | | 7/11/2013 | 17.04 | /9.93 |
| | | | | 12/13/2013 | DRY | NA |

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS CONOCOPHILLIPS COMPANY NELL HALL NO. 1 SAN JUAN COUNTY, NM

| Well ID | Total Depth (ft below TOC) | Surface Elevation (amsl) | Screen Interval (ft bgs) | Date Measured | Depth to Groundwater (ft below TOC) | Relative Water Leve |
|---------|-------------------------------|-----------------------------|-----------------------------|---------------|--|---------------------|
| | | | | 3/8/2004 | 36.04 | 5578.83 |
| | | | | 7/19/2004 | 8.44 | 5606.43 |
| | | | | 10/27/2004 | 19.69 | 5595.18 |
| | | | | 12/27/2004 | 27.58 | 5587.29 |
| | | | | 5/10/2005 | DRY | NA |
| | | | | 10/20/2005 | 18.87 | 5596.00 |
| | | | | 11/22/2005 | 23.93 | 5590.94 |
| | | | | 5/17/2006 | NM | NM |
| | | | | 11/15/2006 | 21.02 | 5593.85 |
| | | 5614.87 | | 2/19/2007 | 34.40 | 5580.47 |
| | | | | 5/14/2007 | 27.56 | 5587.31 |
| | | | | 8/22/2007 | 18.18 | 5596.69 |
| | | | | 11/6/2007 | 20.48 | 5594.39 |
| | | | | 3/17/2008 | 36.08 | 5578.79 |
| | | | | 10/22/2008 | 18.96 | 5595.91 |
| MW-4 | 37.57 | | 7.57 - 37.57 | 3/30/2009 | 37.36 | 5577.51 |
| 10100-4 | 57.57 | | 7.57 - 57.57 | 9/30/2009 | 16.15 | 5598.72 |
| | | | | 3/31/2010 | DRY | NA |
| | | | j ľ | 6/9/2010 | 23.61 | 5591.26 |
| | | | ן ו | 9/27/2010 | 19.61 | 78.14 |
| | | | 3/16/2011 | DRY | NA | |
| | | | | 6/21/2011 | 26.79 | 70.96 |
| | | | | 9/27/2011 | 17.47 | 80.28 |
| | | | | 12/13/2011 | 25.35 | 72.40 |
| | | | | 3/7/2012 | 35.73 | 62.02 |
| | 97.75 | | 6/4/2012 | 25.39 | 72.36 | |
| | | | | 9/20/2012 | 17.43 | 80.32 |
| | | | 12/28/2012 | 28.02 | 69.73 | |
| | | | 3/28/2013 | DRY | NA | |
| | | | | 6/12/2013 | 24.06 | 73.69 |
| | | | | 9/11/2013 | 17.40 | 80.35 |
| | | | | 12/13/2013 | 27.90 | 69.85 |
| | - | | | 3/8/2004 | 37.19 | 5578.67 |
| | | | | 7/19/2004 | 9.38 | 5606.48 |
| | | | - | | 21.07 | 5594.79 |
| | | | - | 10/27/2004 | 28.99 | |
| | | | | 12/27/2004 | | 5586.87 |
| | | | | 5/10/2005 | 39.79 | 5576.07 |
| | | | | 10/20/2005 | 20.34 | 5595.52 |
| | | | | 11/22/2005 | 25.23 | 5590.63 |
| | | | | 5/17/2006 | 23.80 | 5592.06 |
| | | | | 11/15/2006 | 22.51 | 5593.35 |
| | | 5615.86 | | 2/19/2007 | 35.31 | 5580.55 |
| | 1 | | | 5/14/2007 | 27.59 | 5588.27 |
| | | | | 8/22/2007 | 19.45 | 5596.41 |
| | | | l | 11/6/2007 | 21.94 | 5593.92 |
| | 1 | | | 3/17/2008 | 37.33 | 5578.53 |
| | 1 | | | 10/22/2008 | 19.30 | 5596.56 |
| MW-5 | 42.7 | | 7.7 - 42.7 | 3/30/2009 | 38.68 | 5577.18 |
| | 12.7 | | 14.0 | 9/30/2009 | 17.54 | 5598.32 |
| | 1 | | I Í | 3/31/2010 | 39.05 | 5576.81 |
| | 1 | | j í | 6/9/2010 | 24.91 | 5590.95 |
| | | | [| 9/27/2010 | 20.92 | 77.89 |
| | | | | 3/16/2011 | 39.25 | 59.56 |
| | 1 | | | 6/21/2011 | 28.02 | 70.79 |
| | 1 | | i i | 9/27/2011 | 18.79 | 80.02 |
| | | | i i | 12/13/2011 | 26.62 | 72.19 |
| | | | | 3/7/2012 | 37.00 | 61.81 |
| | 1 | 98.81 | | 6/4/2012 | 26.57 | 72.24 |
| | | | | 9/20/2012 | 18.92 | 79.89 |
| | 1 | | | 12/28/2012 | 29.37 | 69.44 |
| | | | | 3/28/2013 | DRY | NA |
| | 1 | | | 6/12/2013 | 25.39 | 73.42 |
| | 1 | | | 9/11/2013 | 18.84 | 79.97 |
| | | | | | | |
| | | | | 12/13/2013 | 29.20 | 69.61 |

MONITOR WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS CONOCOPHILLIPS COMPANY NELL HALL NO. 1 SAN JUAN COUNTY, NM

| Well ID | Total Depth (ft below TOC) | Surface Elevation (amsl) | Screen Interval (ft bgs) | Date Measured | Depth to Groundwater (ft below TOC) | Relative Water Level |
|---------|-------------------------------|-----------------------------|-----------------------------|---------------|--|--|
| | | | | 3/8/2004 | 36.27 | 5579.17 |
| | | | | 7/19/2004 | 9.43 | 5606.01 |
| | | | | 10/27/2004 | 19.33 | 5596.11 |
| | | | | 12/27/2004 | 28.62 | 5586.82 |
| | | | | 5/10/2005 | DRY | NA |
| | | | | 10/20/2005 | 19.94 | 5595.50 |
| | | | | 11/22/2005 | 25.02 | 5606.01 5596.11 5586.82 NA 5595.50 5590.42 NM 5594.32 5580.62 5596.03 5594.32 5596.03 5596.03 5595.45 5579.10 5596.45 5578.40 5597.10 77.62 NA 70.85 |
| | | | | 5/17/2006 | NM | |
| | | | 11/15/2006 21.12 5594.32 | 5594.32 | | |
| | | 5615.44 | | 2/19/2007 | 34.82 | 5580.62 |
| | | | | 5/14/2007 | 26.12 | 82 5580.62 12 5589.32 |
| | | | | 8/22/2007 | 19.41 | 5596.03 |
| | | | | 11/6/2007 | 21.51 | 5593.93 |
| | | | | 3/17/2008 | 36.34 | 5579.10 |
| | | | | 10/22/2008 | 19.99 | 5595.45 |
| MW-6 | 38.21 | | 8.21 - 38.21 | 3/30/2009 | 37.04 | 5578.40 |
| 10100-0 | 36.21 | | 0.21 - 30.21 | 9/30/2009 | 17.26 | 5598.18 |
| | | | | 3/31/2010 | 37.24 | 5578.20 |
| | | | | 6/9/2010 | 24.43 | 5591.01 |
| | | | | 9/27/2010 | 20.79 | 77.62 |
| | | | | 3/16/2011 | DRY | NA |
| | | | | 6/21/2011 | 27.56 | 70.85 |
| | | | | 9/27/2011 | 18.58 | 79.83 |
| | | | | 12/13/2011 | 26.32 | 72.09 |
| | | | | 3/7/2012 | 36.01 | 62.40 |
| | 1 | 98.41 | | 6/4/2012 | 26.55 | 71.86 |
| | 1 | | | 9/20/2012 | 18.25 | 80.16 |
| | | | | 12/28/2012 | 29.11 | 69.30 |
| | 1 | | | 3/28/2013 | DRY | NA |
| | 1 | | | 6/12/2013 | 24.78 | 73.63 |
| | 1 | | | 9/11/2013 | 18.26 | 80.15 |
| | | | | 12/13/2013 | 28.84 | 69.57 |

 Notes:

 amsl = Above mean sea level

 bgs = Below ground surface

 ft = Feet

 NM = Not measured

 NA = Not available

 TOC = Top of casing

 * = Top of casing elevation based on an arbitrary reference elevation of 100 feet

GROUNDWATER ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY NELL HALL NO. 1

| Well ID | Sample ID | Date | Sample Type | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (total) (mg/L) | Sulfate (mg/L) | Iron (dissolved) (mg/L) | Nitrate (as N) (mg/L) |
|------------|--------------------------|-----------------|----------------|-------------------|-------------------|------------------------|------------------------------|-------------------|-------------------------------|--------------------------|
| | NMWQCC Groundwater Qu | ality Standards | | 0.01 | 0.75 | 0.75 | 0.62 | 600 | 1 | 10 |
| | MW-4 | 3/8/2004 | (orig) | 0.013 | 0.012 | 0.064 | 1.4 | | | |
| | MW-4 | 7/19/2004 | (orig) | < 0.0005 | < 0.0005 | < 0.0005 | < 0.0005 | | | |
| | MW-4 | 10/27/2004 | (orig) | 0.011 | 0.008 | 0.021 | 0.13 | | | |
| | MW-4 | 12/27/2004 | (orig) | < 0.0025 | < 0.0025 | < 0.0025 | < 0.0005 | | | |
| | MW-4 | 11/22/2005 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 105 | | < 0.40 |
| | MW-4 | 11/15/2006 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 110 | | < 0.25 |
| | MW-4 | 2/21/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 59.6 | | < 0.25 |
| | MW-4 | 8/22/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 96.5 | | < 0.25 |
| | MW-4 | 11/6/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 111 | | 3.3 |
| | MW-4 | 3/17/2008 | (orig) | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 64.5 | | < 0.5 |
| | MW-4 | 10/22/2008 | (orig) | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 93.8 | | 1.9 |
| | MW-4 | 9/30/2009 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| | MW-4 | 6/9/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| MW-4 | MW-4 | 9/27/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| | GW-74941-062111-CMB-001 | 6/21/2011 | (orig) | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0030 | | 1.21 | |
| | GW-074941-092711-CM-007 | 9/27/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| | GW-074941-121311-CB-MW-4 | 12/13/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 0.201 | |
| | GW-074941-3712-CB-MW-4 | 3/7/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.25 | |
| | GW-074941-3712-CB-DUP | 3/7/2012 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | |
| | GW-074941-060412-CB-MW-4 | 6/4/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 1.17 | |
| | GW-074941-092012-JP-MW-4 | 9/20/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.25 | |
| | GW-074941-122812-JMK-MW4 | 12/28/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 0.748 | |
| | GW-074941-122812-JMK-DUP | 12/28/2012 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | |
| | 074941-061213-JK-MW4 | 6/12/2013 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 1.46 | |
| | 074941-061213-JK-DUP | 6/12/2013 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | |
| | GW-074941-091113-CM-MW-4 | 9/11/2013 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.050 | |
| | GW-074941-122323-CM-MW4 | 12/13/2013 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 0.758 | |

GROUNDWATER ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY NELL HALL NO. 1

| Well ID | Sample ID | Date | Sample Type | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (total) (mg/L) | Sulfate (mg/L) | Iron (dissolved) (mg/L) | Nitrate (as N) (mg/L) |
|------------|--------------------------|------------|----------------|-------------------|-------------------|------------------------|------------------------------|-------------------|-------------------------------|--------------------------|
| | MW-5 | 3/8/2004 | (orig) | 0.0011 | < 0.0005 | 0.001 | 0.017 | | | |
| | MW-5 | 7/19/2004 | (orig) | < 0.0005 | 0.00055 | < 0.0005 | 0.00072 | | | |
| | MW-5 | 10/27/2004 | (orig) | < 0.0005 | < 0.0005 | < 0.0005 | < 0.001 | | | |
| | MW-5 | 12/27/2004 | (orig) | < 0.0005 | < 0.0005 | < 0.0005 | < 0.001 | | | |
| | MW-5 | 5/11/2005 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 139 | | 2.3 |
| | MW-5 | 11/22/2005 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 38 | | < 0.40 |
| | MW-5 | 11/15/2006 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 77.9 | | 2.3 |
| | MW-5 | 2/21/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 83.3 | | 1.3 |
| | MW-5 | 8/22/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 125 | | 5.6 |
| | MW-5 | 11/6/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 59 | | 4 |
| | MW-5 | 3/17/2008 | (orig) | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 69.7 | | 0.986 |
| | MW-5 | 10/22/2008 | (orig) | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 105 | | 0.532 |
| | MW-5 | 3/30/2009 | (orig) | < 0.005 | < 0.005 | < 0.005 | < 0.005 | | | |
| | MW-5 | 9/30/2009 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| MW-5 | MW-5 | 3/31/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| | MW-5 | 6/9/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| | MW-5 | 9/27/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| | MW-5 | 3/16/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | < 0.02 | |
| | GW-74941-062111-CMB-002 | 6/21/2011 | (orig) | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0030 | | < 0.1 | |
| | GW-074941-092711-CM-005 | 9/27/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 0.0835 | |
| | GW-074941-121311-CB-MW-5 | 12/13/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| | GW-074941-3712-CB-MW-5 | 3/7/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| | GW-074941-060412-CB-MW-5 | 6/4/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| | GW-074941-092012-JP-MW-5 | 9/20/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| [| GW-074941-122812-JMK-MW5 | 12/28/2012 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| [| 074941-061213-JK-MW5 | 6/12/2013 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | < 0.05 | |
| | GW-074941-091113-CM-MW-5 | 9/11/2013 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 0.0723 | |
| [| GW-074941-122323-CM-MW5 | 12/13/2013 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | 0.0760 | |

GROUNDWATER ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY NELL HALL NO. 1

| Well ID | Sample ID | Date | Sample Type | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (total) (mg/L) | Sulfate (mg/L) | Iron (dissolved) (mg/L) | Nitrate (as N) (mg/L) |
|------------|--------------------------|------------|----------------|-------------------|-------------------|------------------------|------------------------------|-------------------|-------------------------------|--------------------------|
| | MW-6 | 3/8/2004 | (orig) | 2.5 | 0.014 | 1.6 | 21.031 | | | |
| | MW-6 | 7/19/2004 | (orig) | < 0.0005 | < 0.0005 | 0.00098 | 0.0026 | | | |
| | MW-6 | 10/27/2004 | (orig) | 0.0004 | 0.0003 | 0.0005 | 0.0021 | | | |
| | MW-6 | 12/27/2004 | (orig) | 0.045 | 0.0068 | 0.014 | 0.0717 | | | |
| | MW-6 | 11/22/2005 | (orig) | 0.01 | 0.0007 | 0.016 | 0.15 | 3.4 | | < 0.40 |
| | MW-6 | 11/15/2006 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 41.3 | | < 0.25 |
| | MW-6 | 2/21/2007 | (orig) | 0.54 | < 0.001 | 0.076 | 0.81 | 1.8 | | < 0.25 |
| | MW-6 | 8/22/2007 | (orig) | < 0.0005 | < 0.0007 | < 0.0008 | < 0.0008 | 12.6 | | < 0.25 |
| | MW-6 | 11/6/2007 | (orig) | 0.015 | < 0.0007 | 0.047 | 0.39 | 5.6 | | < 0.25 |
| | MW-6 | 3/18/2008 | (orig) | 0.16 | < 0.005 | < 0.005 | 0.033 | | | |
| | MW-6 | 10/22/2008 | (orig) | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 5.15 | | < 1.0 |
| | MW-6 | 3/30/2009 | (orig) | 0.042 | < 0.005 | < 0.005 | 0.01 | | | |
| | MW-6 | 9/30/2009 | (orig) | 0.096 | 0.0047 | 0.062 | 0.12 | | 1.06 | |
| | MW-6 | 4/1/2010 | (orig) | 0.48 | < 0.001 | 0.078 | 0.2 | | | |
| | MW-6 | 6/9/2010 | (orig) | 0.71 | < 0.001 | 0.42 | 0.52 | | 11.4 | |
| | MW-6 | 9/27/2010 | (orig) | 0.3 | < 0.001 | 0.25 | 0.41 | | 0.676 | |
| 2.017.6 | MW-6 | 3/16/2011 | (orig) | 0.18 | < 0.001 | 0.044 | 0.072 | | 8.66 | |
| MW-6 | GW-74941-062111-CMB-003 | 6/21/2011 | (orig) | 0.461 | 0.00048 | 0.454 | 0.677 | | 9.45 | |
| | GW-74941-062111-CMB-DUP | 6/21/2011 | (Duplicate) | 0.383 | 0.00057 | 0.407 | 0.607 | | | |
| | GW-074941-092711-CM-006 | 9/27/2011 | (orig) | 0.237 | < 0.005 | 0.197 | 0.225 | | 19.6 | |
| | GW-074941-092711-CM-008 | 9/27/2011 | (Duplicate) | 0.249 | < 0.005 | 0.216 | 0.248 | | | |
| | GW-074941-121311-CB-MW-6 | 12/13/2011 | (orig) | 0.298 | 0.0083 | 0.154 | 0.141 | | 11.6 | |
| | GW-074941-121311-CB-DUP | 12/13/2011 | (Duplicate) | 0.359 | 0.0061 | 0.19 | 0.183 | | | |
| | GW-074941-3712-CB-MW-6 | 3/7/2012 | (orig) | 0.0477 | < 0.001 | 0.0073 | 0.0192 | | 22.5 | |
| | GW-074941-060412-CB-MW-6 | 6/4/2012 | (orig) | 0.649 | < 0.01 | 0.309 | 0.314 | | 19.2 | |
| | GW-074941-060412-CB-DUP | 6/4/2012 | (Duplicate) | 0.62 | < 0.01 | 0.267 | 0.266 | | | |
| | GW-074941-092012-JP-MW-6 | 9/20/2012 | (orig) | 0.266 | < 0.005 | 0.065 | 0.0355 | | 9.53 | |
| | GW-074941-092012-JP-DUP | 9/20/2012 | (Duplicate) | 0.282 | < 0.005 | 0.0634 | 0.0348 | | | |
| | GW-074941-122812-JMK-MW6 | 12/28/2012 | (orig) | 0.319 | < 0.005 | 0.0764 | 0.0452 | | 8.06 | |
| | 074941-061213-JK-MW6 | 6/12/2013 | (orig) | 0.442 | < 0.005 | 0.159 | 0.209 | | 16.6 | |
| | GW-074941-091113-CM-MW-6 | 9/11/2013 | (orig) | 0.109 | < 0.001 | 0.0208 | 0.0123 | | 2.260 | |
| | GW-074941-091113-CM-DUP | 9/11/2013 | (Duplicate) | 0.0937 | < 0.001 | 0.0191 | 0.0114 | | | |
| | GW-074941-122323-CM-MW6 | 12/13/2013 | (orig) | 0.467 | < 0.001 | 0.101 | 0.0537 | | 5.900 | |
| | GW-074941-122323-CM-DUP | 12/13/2013 | (Duplicate) | 0.456 | < 0.001 | 0.0777 | 0.0491 | | | |

Explanation

mg/L = milligrams per liter (parts per million)

NA = Not Analyzed

NMWQCC = New Mexico Water Quality Control Commission

Appendix A

2013 Quarterly Groundwater Sampling Field Forms



| | TO DE CORM |
|---------------------------------------|--|
| E/PROJECT NAME: SAMPLE ID: | WELL SAMPLING FIELD INFORMATION FORM Nell Har (1 # 1 job# 1:74941 174941-2001213-3K-MWA WELL# MW 4 |
| PURCE DATE (MM DD YY) | WELL PURGING INFORMATION WELL PURGING INFORMATION |
| RGING EQUIPMENTDEDIC | CATED Y N CIRCLE ONE) Image: CIRCLE ONE) CIRCLE ONE) CIRCLE ONE) Image: CIRCLE ONE) D - GAS LIFT PUMP G - BAILER X= Image: CIRCLE ONE) B - PERISTALTIC PUMP E - PURGEPUMP H - WATERRAS PURGING DEVICE OTHER ©FECIFY) Image: CIRCLE ONE) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= Image: CIRCLE ONE) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= |
| PURGING MATERIAL SAMPLING MATERIAL | A - TEFLON D - PVC X= |
| PURGE TUBING SAMPLING TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLENE X= B - TOGON E - POLYETHYLENE PURGE TUBING OTHER SPECIFY) C - ROPE F - SILICONE X - OTHER X - TOGON E - SILICONE X - OTHER X - TOGON F - SILICONE X - OTHER X - TOGON F - SILICONE X - OTHER X - TOGON F - SILICONE SAMPLING TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | FIELD MEASUREMENTS |
| | ATER 24.06 (feet) WELL ELEVATION (feet) |
| | |

| | WELL SAMPLING FIE | LD INFORMATION FOI | RM |
|---|--|---|---|
| SITE/PROJECT NAME | | JOB# <u></u> DIALS WELL# | 94 074941 |
| SAMPLE II | 1 074941-No1213 JK-M | <u>MWO</u> WELL# | 1° 10 - 5 |
| | WELL PURG | SING INFORMATION | |
| PURGE DATE (MM DD YY) | (MM DĐ YY) (24 H | E TIME WATER VOL IN (CALLON (CALLON | |
| PURGING EQUIPMENTDED | | SAMPLING EQUIPMENT 5AN | IPLING EQUIPMENT DEDICATED Y N |
| | (CIRCLE ONE) | | (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP B - PERISTALTIC PUMP E - PURGE PUMP | G - HAILER H - WATERRAS | X= FURGING DEVICE OTHER (SPECIFY) |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE | X-OTHER | X* |
| PURGING MATERIAL | A - TEFLON D - PVC B - STAINI PSS STEEL E - POLYETHYLENE | | X |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER | | PURGING MATERIAL OTHER (SPECIFY) |
| 1 | | | SAMPLING MATERIAL OTHER (SPECIPY) |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE B - TYCON E - POLYPEINYLENE | G - COMBINATION TEFLON/POLYPROPYLENE | X= Purge tubing other (specipy) |
| SAMPLING TUBING | C-ROPE F-SILICONE | X - OTHER | X* |
| FILTERING DEVICES 0.15 | A - IN-LINE DISPOSABLE B - PRESSURE | | |
| | FIELD M | IEASUREMENTS | 4 |
| DEPTH TO WATER | 23.3 ² / (feet) | WELL ELEVATION | (feet) |
| WELL DEPTH | 42.90 (feel) | GROUNDWATER ELEVATION | (feel) |
| TEMPERATURE | pH TDS | SC DO | ORP VOLUME |
| 15.71 ro | 7.07 (std) 1.050 (g/L) | <u>6/6</u> (us/cm) <u>.30</u> (n | -19.6 (mV) 7 (gal) |
| 15.18 0 | 764 1642 | 11- 27 | $\frac{9, 2}{171}$ (mV) $\frac{7.5}{600}$ (gal) |
| (***) | (std) | | |
| (9) | (std) (g/L) | (µ5/cm) (n | ng/ <u>L)</u> (mV) (gal) |
| ((C) | (std) (g/L) | (µS/cm) (n | ng/ <u>L) (</u> mV) (gal) |
| | FIELD | COMMENTS | |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: | $\frac{1}{1500} \frac{1}{1500} \frac{1}{1500$ | ······ | SHEEN Y/N |
| | | | |
| | | | · · · · · · · · · · · · · · · · · · · |
| | | | |
| <u></u> | | N 11 - | |
| | CEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCO | NS I we manual | |

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| SITE/PROJECT NAI SAMPLE | ME: Nell Ma | LING FIELD INFORM (1) :#= \$5 (213)X-^ MWG | атіоn form јов# <u>()7494)</u> well# <u>(м.с. 40</u> | | , |
|---|---------------------------|--|--|---------------------------------------|---|
| | | WELL PURGING INFORMATION | | | |
| DIG 1213 PURGE DATE (MM DD YY) | SAMPLE DATE (MM DD YY) | SAMPLE TIME (21 HOUR) | (GALLONS) | G. IS IVAL VOL PURGED (GALLONS) | |
| PURGING EQUIPMENTE | DEDICATED Y N | PURGING AND SAMPLING EQUIPMEN | SAMPLING EQUIPMENT | | |
| PURGING DEVICE | B-PERISTALTIC PUMP E-1 | GAS LIFT PUMP G - BAILER Purge Pump H - Waterraß | X= Purging devic | (CIRCLE ONE) | |
| SAMPLING DEVICE | C-BLADDER PUMP F-T | DIPPER BOTTLE X - OTHER | X=SAMPLING DEVI | CE OTHER (SPECIFY) | |
| PURGING MATERIAL SAMPLING MATERIAL | B-STAINLESS STEEL E-I | PVC VOLYETHYLENE DTHER | X= Purging mater X= | NAL OTHER (SPECIFY) | |
| | | | | ERIAL OTHER (SPECIFY) | |
| PURGE TUBING SAMPLING TUBING | B-TYGON E-F | OLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLE OLYETHYLENE ILICONE X - OTHER | PURGE TUBING C X= | | |
| | 1 8 4 | | SAMPLING TUBIN | NG OTHER (SPECIFY) | |
| DEPTH TO WA | | FIELD MEASUREMENTS (feet) WELL ELI (feet) GROUNDWATER EL | 1 | (feet) | |
| TEMPERATURE | pH TDS | sc | DO ORP | VOLUME | |
| 13.5 0 | 6.53 (std) 1.29 | | | nV) Jakal) | |
| 1543 m | 1 | 3 (g/L) 2053 (us/m) | | nV) D. D. (gal) | |
| [<u>1473</u>]m | 6.55 (std) 18352 | | <u>U.35 (mg/l)</u> -722 (r | nv) 6.25 (gal) | |
| (°) | (std) | (g/L) (u5/cm) | ······································ | nV)(gal) | |
| | ODOR: | FIELD COMMENTS | SHEEN Y/N | | |
| SAMPLE APPEARANCE | TEMPERATURE | WINDY Y/N | | · | |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: | 13.67 × .150 | = 2.05 × 3 = (| <u>a.c.</u> | | |

WELL SAMPLING FIELD INFORMATION FORM SITE/PROJECT NAME: JOB# SAMPLE ID; WELL# WELL PURGING INFORMATION 00 3.25 SAMPLE TIME WATER VOL. IN CASING URGE DATE SAMPLE DATE ACTUAL VOL. PURGED (MM DD YY) (MM DD YY) (24 HOUR) (GALLONS) (GALLONS) PURGING AND SAMPLING EQUIPMENT SAMPLING EQUIPMENT......DEDICATED N (CIRCLE ONE (CIRCLE ONE) A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER PURGING DEVICE H - WATERRAD B - PERISTALTIC PUMP E - PURGE PUMP PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER SAMPLING DEVICE X≈ SAMPLING DEVICE OTHER (SPECIFY) A - TEFLON D-PVC PURGING MATERIAL X= E - POLYETHYLENE B - STAINLESS STEEL PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER SAMPLING MATERIAL X= SAMPLING MATERIAL OTHER (SPECIFY) PURGE TUBING TEFLON D - POLYPROPYLENE G - COMBINATION X= TEFLON/POLYPROPYLENE E - POLYETHYLENE PURGE TUBING OTHER (SPECIFY) B - TYGON X - OTHER F - SILICONE SAMPLING TUBING ROPE X= SAMPLING TUBING OTHER (SPECIFY) B-PRESSURE ().45 FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE FIELD MEASUREMENTS WELL ELEVATION DEPTH TO WATER (feet) (feet) GROUNDWATER ELEVATION (feet) WELL DEPTH (feet) pН TDS DO ORP VOLUME TEMPERATURE sc 0.597 (g/L) 918 116.57 7.10 (std) 4.0 6.1 0.59 (10) 910 (µS/cm) 0,57 /@_0 Sill ¢ mV) (gal) (µS/cm) (g/L) (mV) (°C) (std) (gal) (std) (g/L)(mV) (°C) uS/cm) mg/L FIELD COMMENTS \mathcal{N} CLOUDY NOR COLOR: BROWN ODOR: SHEEN Y/N SAMPLE APPEARANCE: N 805 VEATHER CONDITIONS: TEMPERATURE WINDY Y/N PRECIPITATION Y/N (IF Y TYPE) ٨ SPECIFIC COMMENTS: I CERTIFY THAT SAMPLING PROCEDURES WERE IN A CORDANCE WITH APPLICABLE CRAPROTOCOLS PRINT CI SCATURE DATE

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| SITE/PROJECT NAME SAMPLE II | A THE ALLO YOU MUS MOULD |
|---|--|
| PURCE DATE (MM DD YY) | Well PURGING INFORMATION 9/1/3 SAMPLE DATE (MM DD YY) SAMPLE TIME (24 HOUR) WATER VOL IN CASING (CALLONS) (CALLONS) (CALL |
| PURGING EQUIPMENTDED | PURGING AND SAMPLING EQUIPMENT ICATED Y N SAMPLING EQUIPMENTDEDICATED Y N (CIRCLE ONE) (CIRCLE ONE) |
| PURGING DEVICE SAMPLING DEVICE | A-SUBMERSIBLE PUMP D-GAS LIFT PUMP G-BAILER X= B-PERISTALTIC PUMP E-PURGE PUMP H-WATERRAD C_BLADDER PUMP F-DIPPER BOTTLE X-OTHER X= SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL SAMPLING MATERIAL | A - TEFLON D - PVC X= B - STAINLESS STEEL E - POLVETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING SAMPLING TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) B - TYGON E - POLYETHYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X JSAMPLING TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | A-IN-LINE DISPOSABLE B-PRESSURE 0,45 for metals only |
| DEPTH TO WATE | FIELD MEASUREMENTS |
| VELL DEPTH TEMPERATURE | 105.004 |
| 17.46 m | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| 17.05 ro | 5.86 (std) 0.559 (g/L) 861 (uS/cm) 8.20 (mg/L// 5.7 (mV) 11.75 (gal) |
| (°C) | (std) (g/L) (µS/cm) (mv) (gal) (std) (g/L) (µS/cm) (my/L) (mv) (gal) |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: | FIELD COMMENTS CLOUDY ODOR NEW K COLOR: BROWN SHEEN Y/N TEMPERATURE 80 S WINDY Y/N N PRECIPITATION Y/N (IF Y TYPE) N = 3,855 |
| 3 volume | s= /1.56 |
| | CEDURES WERE VACCORED WITH APPLICABLE RA PROTOCOLS |

| alla | a11/2 | WELL PURGING INFORMATION | 3,24, 9.75 |
|--|--|--|---|
| PURGE DATE (MM DD YY) | SAMPLE DATE (MM DD YY) | | WATER VOL IN CASING (GALLONS) ACTUAL VOL PURGED (GALLONS) (GALLONS) |
| PURGING EQUIPMENTD | EDICATE Y N (CIRCLE ONE) | PURGING AND SAMPLING EQUIPMENT | SAMPLING EQUIPMENTDEDICATED N (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP | D - GAS LIFT PUMP G - BAILER E - PURGE PUMP H - WATERRAD | X |
| SAMPLING DEVICE | C - BLADDER PUMP | F - DIPPER BOTTLE X - OTHER | SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL | A-TEFLON | D- PVC | X= |
| AMPLING MATERIAL | B-STAINLESS STEEL C-POLYPROPYLENE | E - POLYETHYLENE X - OTHER | PURGING MATERIAL OTHER (SPECIFY) X= |
| | | | SAMPLING MATERIAL OTHER (SPECIFY) |
| URGE TUBING AMPLING TUBING | B-TYGON C-ROPE | D - POLYPROPYLENE G - COMBINATION E - POLYETHYLENE TEFLON/POLYPROPYLENE F - SILICONIE X - OTHER | X= PURGE TUBING OTHER (SPECIFY) X= |
| | \wedge | | SAMPLING TUBING OTHER (SPECIFY) |
| ILTERING DEVICES 0.45 | A - IN-LINE DISPOSA | able B-pressure 0,45 for | metals only |
| ILTERING DEVICES 0.45 | | ABLE B- PRESSURE 0,45 FOR | metals only |
| ILTERING DEVICES 0.45 | 18.26 | | rmetals only |
| DEPTH TO WA | тек 18,26 ртн 38,48 | FIELD MEASUREMENTS (feet) WELL ELEVATIO (feet) GROUNDWATER ELEVATIO | ION (feet) |
| DEPTH TO WA WELL DEI TEMPERATURE | тек <u>18,26</u> ртн <u>38,48</u> рн | FIELD MEASUREMENTS | TON (feet) DO ORP VOLUME |
| DEPTH TO WA | тек <u>18,26</u> ртн <u>38,48</u> рн <u>6.51</u> (std) <u>9</u> | FIELD MEASUREMENTS (feet) WELL ELEVATIO (feet) GROUNDWATER ELEVATIO | TON (feet) DO ORP VOLUME $Q_{1}Q_{(mg/L)} = (19.0)$ (mV) $Q_{2}Q_{3} = (gal)$ |
| DEPTH TO WA WELL DEI TEMPERATURE | тек <u>18,26</u> ртн <u>38,48</u> рн <u>6.51</u> (std) <u>9</u> | FIELD MEASUREMENTS $(\text{(eet)} WELL ELEVATION (feet) GROUNDWATER ELEVATION TDS SC \frac{112}{(g/L)} (g/L) (uS/cm) 2$ | TON (feet) DO ORP VOLUME $Q_{1}Q_{(mg/L)} = (19.0)$ (mV) $Q_{2}Q_{3} = (gal)$ |
| DEPTH TO WA WELL DEI TEMPERATURE | тек <u>18,26</u> ртн <u>38,48</u> рн <u>6.51</u> (std) <u>9</u> | FIELD MEASUREMENTS $(\text{feet}) \qquad \text{WELL ELEVATIO}$ $(\text{feet}) \qquad \text{GROUNDWATER ELEVATIO}$ | TON (feet) DO ORP VOLUME $Q_{1} Q_{1} (mg/L) (119.0) (mV) \qquad \qquad$ |
| DEPTH TO WA WELL DEP TEMPERATURE 15.80 (°C) 16.26 (°C) 16.54 (°C) | TER 18.26 PTH 38.48 6.51 (std) 16.23 (std) 1 | FIELD MEASUREMENTS $\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| DEPTH TO WA WELL DEP TEMPERATURE 15.80 (°C) 16.26 (°C) 16.54 (°C) | TER 18.26 PTH 38.48 6.51 (std) 16.23 (std) $1(std)$ | FIELD MEASUREMENTS $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

| SITE/PROJECT NAME: SAMPLE ID: | WELL SA NGU GW-07492 | MPLING FIE TALL 116, 11-121313-C | LD INFORMATION JOB# M_MU-4 well# | 074941 |
|---|--|--|--|---|
| 12/13/13 PURGEDATE (MINDD YY) | 12/13/13 SAMPLE DATE (MM DD YY) | WELL PURGE SAMPLI (24 HO | | 39 VOL IN CASING SALLONS) ACTUAL VOL PURGED (GALLONS) |
| PURGING EQUIPMENTDEDICA | ATECY N (CIRCLE ONE) | PURGING AND S | SAMPLING EQUIPMENT | SAMPLING EQUIPMENTDEDICATER N |
| PURGING DEVICE | A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP C - BLADDER PUMP | D - GAS LIFT PUMP E - PURGE PUMP F - DIPPER BOTTLE | G - BAILER H - WATERRA® X - OTHER | X= PURGING DEVICE OTHER (SPECIFY) X= |
| PURGING MATERIAL | A-TEFLON B-STAINLESS STEEL | D - PVC 5 - POLYETHYLENE | | SAMPLING DEVICE OTHER (SPECIFY) |
| SAMPLING MATERIAL | | X - OTHER | | PURGING MATERIAL OTHER (SPECIFY) X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING | A - TEFLON B - TYGON C - ROPE | D - POLYPROPYLENE E - POLYETHYLENE F - SILICONE | G - COMBINATION TEFLON/POLYPROPYLENE X - OTHER | X= PURGE TUBING OTHER (SPECIFY) X= |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABL | | | Contraction of tubing other (specify) |
| DEPTH TO WATER WELL DEPTH | 27.90 37.52 | (feet) | EASUREMENTS WELL ELEVATION GROUNDWATER ELEVATION | (feet) |
| La OD CO | (1.80 (sta) 0 | $\frac{629}{629}$ | $\frac{100}{168}$ | ORP VOLUME $\frac{109.7}{(mg/L)}$ (mV) 3.75 (gal) 4 - 3.76 (mV) 4.75 |
| $\frac{10110}{1600}$ | (1, 74 (std) () | 629 (g/L) | (µS/cm) 170 | $\frac{1}{(mg/L)} \frac{1}{37.0} \frac{1}{(mV)} \frac{1}{4.75} \frac{1}{(gal)}$ |
| (C) | (std) | (g/L) | (μS/cm) | (mg/L) (mV) (gal) |
| SAMPLE APPEARANCE SLEAD WEATHER CONDITIONS: TH SPECIFIC COMMENTS: | ly loudy or or emperature | No cap Windy y/n | сомментя color: <u>СООСЛ</u> ЛО | SHEEN Y/N NO |
| 1.539 X.3 = | 4.6176 | | | |
| | EDURES WERE IN ACORDANCE WITH PRINT | ipelic provided as | NATURE | and Molad |

A mark menne sorie so

| SITE/PROJECT NAME SAMPLE ID | NellH | mpling fii 711 No . 1-121313-C | eld informa M-MW-5 | TION FORM JOB# WELL# | 1 14941 NW -5 |
|---|--|---|---|---|--|
| PURGE DATE (NIM DD YY) | SAMPLE DATE (MM DD YY) | SAME | EING INFORMATION | 2,1616 IVATER VOL IN CASI (GALLONS) | NG ACTUAL VOL PURGED (GALLONS) |
| W PURGING EQUIPMENTDED | ICATED N (CIRCLE ONE) | PURGING AND | SAMPLING EQUIPMENT | | NG EQUIPMENTDEDICATED N (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP | D - GAS LIFT PUMP | G - BAILER | | X= |
| SAMPLING DEVICE | B - PERISTALTIC PUMP C - BLADDER PUMP | E - PURGE PUMP F - DIPPER BOTTLE | H - WATERRA® | | PURGING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL SAMPLING MATERIAL | A - TEFLON B - STAINLESS STEEL C - POLYPROPYLENE | D - PVC E - POLYETHYLENE X - OTHER | | | SAMPLING DEVICE OTHER (SPECIFY) X= PURGING MATERIAL OTHER (SPECIFY) X= |
| PURGE TUBING SAMPLING TUBING | A - TEFLON B - TYGON C - ROPE | D - POLYFROPYLENE E - POLYETHYLENE F - SILICONE | G - COMBINATION TEFLON/POLYPROPYLEP X - OTHER | NE | SAMPLING MATERIAL OTHER (SPECIFY) X= PURGE TUBING OTHER (SPECIFY) X= |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABI | LE B - PRESSUR | Her Me | tals a | |
| DEPTH TO WATEH WELL DEPTH TEMPERATURE [14.69] (°C) [15.24] (°C) [15.24] (°C) [15.24] (°C) [15.26] (°C) | pH 6166 (std) 7 6770 (std) 7 6774 (std) 6 (std) | (feet) , (feet) TDS | (µ5/cm) | DO DO <u>6,51</u> (mg/ <u>1</u> <u>5,09</u> (mg/ <u>1</u> (mg/ <u>1</u> (mg/ <u>1</u> (mg/ <u>1</u> |) - 26, 3 (mV) 6.0 (gal)) - 26, 3 (mV) 6.5 (gal)) (mV) (gal) |
| veather conditions: specific comments: | $\frac{25^{\circ}}{3} = \left(\frac{404}{25^{\circ}} \right)$ | | <u>scotor</u> <u>B</u> | PRECIPITATI | |
| | PRINT | APPLICAR APPLICATION | ELS C | tudioi | India |

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| | SITF/PROJECT NAME: SAMPLE ID: | | |
|----|--|---|----|
| | PURGE DATE (MM DD YY) | WELL PURGING INFORMATION 12/13/13 SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION SAMPLE TIME 0930 WATER VOL IN CASING (CA HOUR) WATER VOL IN CASING (CALLONS) CALLONS | |
| | PURGING EQUIPMENTDEDI | ICATED N SAMPLING EQUIPMENT (CIRCLE ONE) (CIRCLE ONE) | |
| | PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRAØ PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= SAMPLING DEVICE OTHER (SPECIFY) | |
| 1 | PURGING MATERIAL SAMPLING MATERIAL | Image: Book of the stainless steel D - PVC X= Image: Book of the stainless steel E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) Image: C - POLYPROPYLENE X - OTHER X= Image: Sampling Material other (SPECIFY) Sampling Material other (SPECIFY) | |
| | PURGE TUBING SAMPLING TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) B - TYGON E - POLYETHYLENE Y- OTHER X = C - ROPE F - SILICONE X - OTHER X = A - TEFLON/POLYPROPYLENE X - OTHER X = | |
| | FILTERING DEVICES 0.45 DEPTH TO WATER | A-IN-LINE DISPOSABLE B- PRESSURE TO WOTALS ONLY 2008 FIELD MEASUREMENTS | |
| OM | well depth temperature | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1) |
| | 14,73 m 15,20 m 15,32 m | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | |
| | (°C) | (std) (g/L) (µ5/cm) (mg/L) (mV) (gal) | |
| | sample appearance (1044) weather conditions: specific comments: Daplicate | <u>N Black</u> <u>obse</u> <u>sheen y/n</u> <u>N</u> <u>sheen y/n</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> <u>N</u> | |
| | | S = 41493 CCOLORES WERE IN CCOLORING WHILE PARAMETERS (CURCO MALLENO) PRINT | |

Appendix B

2013 Quarterly Groundwater Laboratory Analytical Reports





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

June 28, 2013

Christine Matthews CRA 6121 Indian School Rd NE Suite 200 Albuquerque, NM 87110

RE: Project: 074941 Nell Hall No. 1 Pace Project No.: 60146960

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanazan

Alice Flanagan

alice.flanagan@pacelabs.com Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa Angela Bown, COP Conestoga-Rovers & Associa Cassie Brown, COP Conestoga-Rovers & Associa Jason Ploss, COP Conestoga-Rovers & Associa





CERTIFICATIONS

Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 WY STR Certification #: 2456.01 Arkansas Certification #: 13-012-0 Illinois Certification #: 003097 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-13-4 Utah Certification #: KS000212013-3 Illinois Certification #: 003097



SAMPLE SUMMARY

Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|----------------------|--------|----------------|----------------|
| 60146960001 | 074941-061213-JK-MW4 | Water | 06/12/13 14:50 | 06/14/13 08:50 |
| 60146960002 | 074941-061213-JK-MW5 | Water | 06/12/13 14:45 | 06/14/13 08:50 |
| 60146960003 | 074941-061213-JK-MW6 | Water | 06/12/13 14:55 | 06/14/13 08:50 |
| 60146960004 | 074941-061213-JK-DUP | Water | 06/12/13 08:00 | 06/14/13 08:50 |
| 60146960005 | TRIP BLANK | Water | 06/12/13 08:00 | 06/14/13 08:50 |



SAMPLE ANALYTE COUNT

 Project:
 074941 Nell Hall No. 1

 Pace Project No.:
 60146960

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|----------------------|----------|----------|----------------------|
| 60146960001 | 074941-061213-JK-MW4 | EPA 6010 | | 1 |
| | | EPA 8260 | JTS | 9 |
| 60146960002 | 074941-061213-JK-MW5 | EPA 6010 | TJT | 1 |
| | | EPA 8260 | JTS | 9 |
| 60146960003 | 074941-061213-JK-MW6 | EPA 6010 | TJT | 1 |
| | | EPA 8260 | JTS | 9 |
| 60146960004 | 074941-061213-JK-DUP | EPA 8260 | JTS | 9 |
| 60146960005 | TRIP BLANK | EPA 8260 | JTS | 9 |



PROJECT NARRATIVE

Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

Method: EPA 6010

Description:6010 MET ICP, DissolvedClient:COP Conestoga-Rovers & Associates, Inc. NMDate:June 28, 2013

General Information:

3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



PROJECT NARRATIVE

Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

Method: EPA 8260

Description:8260 MSV UST, WaterClient:COP Conestoga-Rovers & Associates, Inc. NMDate:June 28, 2013

General Information:

5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| Sample: 074941-061213-JK-MW4 | Lab ID: | 60146960001 | Collected | d: 06/12/13 | 3 14:50 | Received: 06/ | 14/13 08:50 Ma | atrix: Water | |
|------------------------------|---------------|---------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical | Method: EPA 6 | 010 Prepa | ration Meth | od: EPA | 3010 | | | |
| Iron, Dissolved | 1460 u | ıg/L | 50.0 | 11.6 | 1 | 06/18/13 14:00 | 06/21/13 09:58 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | ND u | ıg/L | 1.0 | 0.060 | 1 | | 06/25/13 22:36 | 71-43-2 | |
| Ethylbenzene | ND u | ıg/L | 1.0 | 0.18 | 1 | | 06/25/13 22:36 | 100-41-4 | |
| Toluene | ND u | ıg/L | 1.0 | 0.17 | 1 | | 06/25/13 22:36 | 108-88-3 | |
| Xylene (Total) | ND u | ıg/L | 3.0 | 0.42 | 1 | | 06/25/13 22:36 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 95 % | 6 | 80-120 | | 1 | | 06/25/13 22:36 | 1868-53-7 | |
| Toluene-d8 (S) | 96 % | 6 | 80-120 | | 1 | | 06/25/13 22:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 % | 6 | 80-120 | | 1 | | 06/25/13 22:36 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 97 % | 6 | 80-120 | | 1 | | 06/25/13 22:36 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 06/25/13 22:36 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| Sample: 074941-061213-JK-MW5 | Lab ID: | 60146960002 | Collected | I: 06/12/13 | 8 14:45 | Received: 06/ | 14/13 08:50 Ma | atrix: Water | |
|------------------------------|------------|---------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical | Method: EPA 6 | 010 Prepar | ation Meth | od: EPA | 3010 | | | |
| Iron, Dissolved | ND u | g/L | 50.0 | 11.6 | 1 | 06/18/13 14:00 | 06/21/13 10:06 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | ND u | g/L | 1.0 | 0.060 | 1 | | 06/25/13 22:52 | 71-43-2 | |
| Ethylbenzene | ND u | g/L | 1.0 | 0.18 | 1 | | 06/25/13 22:52 | 100-41-4 | |
| Toluene | ND u | g/L | 1.0 | 0.17 | 1 | | 06/25/13 22:52 | 108-88-3 | |
| Xylene (Total) | ND u | g/L | 3.0 | 0.42 | 1 | | 06/25/13 22:52 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 97 % | , D | 80-120 | | 1 | | 06/25/13 22:52 | 1868-53-7 | |
| Toluene-d8 (S) | 99 % | , D | 80-120 | | 1 | | 06/25/13 22:52 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 % | , D | 80-120 | | 1 | | 06/25/13 22:52 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 100 % | , D | 80-120 | | 1 | | 06/25/13 22:52 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 06/25/13 22:52 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| Sample: 074941-061213-JK-MW6 | Lab ID: | 60146960003 | Collected | d: 06/12/13 | 8 14:55 | Received: 06/ | 14/13 08:50 Ma | atrix: Water | |
|------------------------------|----------------|---------------|-----------------|--------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytica | Method: EPA 6 | 010 Prepa | ration Metho | od: EPA | 3010 | | | |
| Iron, Dissolved | 16600 ເ | ıg/L | 50.0 | 11.6 | 1 | 06/18/13 14:00 | 06/21/13 10:13 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytica | Method: EPA 8 | 260 | | | | | | |
| Benzene | 442 ι | ıg/L | 5.0 | 0.30 | 5 | | 06/25/13 23:07 | 71-43-2 | |
| Ethylbenzene | 159 ι | ıg/L | 5.0 | 0.90 | 5 | | 06/25/13 23:07 | 100-41-4 | |
| Toluene | ND ι | ıg/L | 5.0 | 0.85 | 5 | | 06/25/13 23:07 | 108-88-3 | |
| Xylene (Total) | 209 ເ | ıg/L | 15.0 | 2.1 | 5 | | 06/25/13 23:07 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 98 9 | % | 80-120 | | 5 | | 06/25/13 23:07 | 1868-53-7 | |
| Toluene-d8 (S) | 99 9 | % | 80-120 | | 5 | | 06/25/13 23:07 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 9 | % | 80-120 | | 5 | | 06/25/13 23:07 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 98 9 | % | 80-120 | | 5 | | 06/25/13 23:07 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 5 | | 06/25/13 23:07 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| Sample: 074941-061213-JK-DUP | Lab ID: | 60146960004 | Collecte | d: 06/12/13 | 8 08:00 | Received: 06/ | /14/13 08:50 Ma | atrix: Water | |
|------------------------------|------------|---------------|----------|-------------|---------|---------------|-----------------|--------------|------|
| | | | Report | | | | | | |
| Parameters | Results | Units | Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | ND u | g/L | 1.0 | 0.060 | 1 | | 06/25/13 23:23 | 71-43-2 | |
| Ethylbenzene | ND u | g/L | 1.0 | 0.18 | 1 | | 06/25/13 23:23 | 100-41-4 | |
| Toluene | ND u | g/L | 1.0 | 0.17 | 1 | | 06/25/13 23:23 | 108-88-3 | |
| Xylene (Total) | ND u | g/L | 3.0 | 0.42 | 1 | | 06/25/13 23:23 | 1330-20-7 | |
| Surrogates | | - | | | | | | | |
| Dibromofluoromethane (S) | 99 % | / 0 | 80-120 | | 1 | | 06/25/13 23:23 | 1868-53-7 | |
| Toluene-d8 (S) | 99 % | / 0 | 80-120 | | 1 | | 06/25/13 23:23 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 % | 0 | 80-120 | | 1 | | 06/25/13 23:23 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 100 % | 6 | 80-120 | | 1 | | 06/25/13 23:23 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 06/25/13 23:23 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| Sample: TRIP BLANK | Lab ID: | 60146960005 | Collecte | d: 06/12/13 | 08:00 | Received: 06 | /14/13 08:50 Ma | atrix: Water | |
|---------------------------|------------|---------------|-----------------|-------------|-------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | ND u | g/L | 1.0 | 0.060 | 1 | | 06/25/13 21:49 | 71-43-2 | |
| Ethylbenzene | ND u | g/L | 1.0 | 0.18 | 1 | | 06/25/13 21:49 | 100-41-4 | |
| Toluene | ND u | g/L | 1.0 | 0.17 | 1 | | 06/25/13 21:49 | 108-88-3 | |
| Xylene (Total) | ND u | g/L | 3.0 | 0.42 | 1 | | 06/25/13 21:49 | 1330-20-7 | |
| Surrogates | | - | | | | | | | |
| Dibromofluoromethane (S) | 99 % | , 0 | 80-120 | | 1 | | 06/25/13 21:49 | 1868-53-7 | |
| Toluene-d8 (S) | 100 % | , D | 80-120 | | 1 | | 06/25/13 21:49 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 % | , D | 80-120 | | 1 | | 06/25/13 21:49 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 100 % | , D | 80-120 | | 1 | | 06/25/13 21:49 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 06/25/13 21:49 | | |



QUALITY CONTROL DATA

| Project: Pace Project No.: | 074941 Nell 60146960 | Hall No. 1 | | | | | | | | | | | |
|-------------------------------|-------------------------|--------------|-----------|------------|-------------|----------|------------|---------|------------|-----------|-----|-----|------|
| QC Batch: | MPRP/231 | 27 | | Analys | is Method: | E | EPA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | | - | is Descript | | 010 MET Di | ssolved | | | | | |
| Associated Lab San | nples: 6014 | 46960001, 60 | 146960002 | , 60146960 | 003 | | | | | | | | |
| METHOD BLANK: | 1206781 | | | N | latrix: Wat | ter | | | | | | | |
| Associated Lab San | nples: 6014 | 46960001, 60 | 146960002 | , 60146960 | 003 | | | | | | | | |
| | | | | Blank | R | eporting | | | | | | | |
| Paran | neter | ι | Jnits | Result | t | Limit | Analyz | ed | Qualifiers | | | | |
| Iron, Dissolved | | ug/L | | | ND | 50.0 | 06/20/13 | 12:56 | | | | | |
| LABORATORY COM | NTROL SAMF | PLE: 120678 | 82 | | | | | | | | | | |
| | | | | Spike | LCS | 5 | LCS | % Red | ; | | | | |
| Paran | neter | ι | Jnits | Conc. | Resu | llt | % Rec | Limits | a Qi | ualifiers | | | |
| Iron, Dissolved | | ug/L | | 10000 | | 9680 | 97 | 80 | -120 | | - | | |
| MATRIX SPIKE & M | IATRIX SPIKI | E DUPLICATE | : 120678 | 83 | | 1206784 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| | | 6014 | 46960001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Paramet | er | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Iron, Dissolved | | ug/L | 1460 | 10000 | 10000 | 11400 | 11300 | 99 | 99 | 75-125 | 0 | 20 | |



QUALITY CONTROL DATA

Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

| QC Batch: | MSV/54541 |
|------------------|-----------|
| QC Batch Method: | EPA 8260 |

Analysis Method:

Analysis Description:

EPA 8260

8260 MSV UST-WATER

Associated Lab Samples: 60146960001, 60146960002, 60146960003, 60146960004, 60146960005

METHOD BLANK: 1210779

Matrix: Water

Associated Lab Samples: 60146960001, 60146960002, 60146960003, 60146960004, 60146960005

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Benzene | ug/L | ND | 1.0 | 06/25/13 21:03 | |
| Ethylbenzene | ug/L | ND | 1.0 | 06/25/13 21:03 | |
| Toluene | ug/L | ND | 1.0 | 06/25/13 21:03 | |
| Xylene (Total) | ug/L | ND | 3.0 | 06/25/13 21:03 | |
| 1,2-Dichloroethane-d4 (S) | % | 100 | 80-120 | 06/25/13 21:03 | |
| 4-Bromofluorobenzene (S) | % | 101 | 80-120 | 06/25/13 21:03 | |
| Dibromofluoromethane (S) | % | 98 | 80-120 | 06/25/13 21:03 | |
| Toluene-d8 (S) | % | 99 | 80-120 | 06/25/13 21:03 | |

LABORATORY CONTROL SAMPLE: 1210780

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| Benzene | ug/L | 20 | 20.1 | 101 | 73-122 | |
| Ethylbenzene | ug/L | 20 | 21.0 | 105 | 76-123 | |
| Toluene | ug/L | 20 | 19.5 | 98 | 76-122 | |
| Kylene (Total) | ug/L | 60 | 62.4 | 104 | 76-122 | |
| I,2-Dichloroethane-d4 (S) | % | | | 98 | 80-120 | |
| I-Bromofluorobenzene (S) | % | | | 99 | 80-120 | |
| Dibromofluoromethane (S) | % | | | 97 | 80-120 | |
| Foluene-d8 (S) | % | | | 98 | 80-120 | |

| MATRIX SPIKE & MATRIX SP | IKE DUPLICAT | E: 12107 | 81 | | 1210782 | | | | | | | |
|---------------------------|--------------|-----------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 60 | 147110001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Benzene | ug/L | ND | 20 | 20 | 20.4 | 18.4 | 102 | 92 | 48-150 | 10 | 31 | |
| Ethylbenzene | ug/L | ND | 20 | 20 | 21.9 | 19.8 | 109 | 99 | 50-147 | 10 | 31 | |
| Toluene | ug/L | ND | 20 | 20 | 20.6 | 18.4 | 103 | 92 | 51-147 | 11 | 32 | |
| Xylene (Total) | ug/L | ND | 60 | 60 | 63.2 | 58.3 | 105 | 97 | 49-145 | 8 | 31 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 100 | 101 | 80-120 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 99 | 100 | 80-120 | | | |
| Dibromofluoromethane (S) | % | | | | | | 99 | 100 | 80-120 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 100 | 80-120 | | | |
| Preservation pH | | 1.0 | | | 1.0 | 1.0 | | | | 0 | | |



QUALIFIERS

Project: 074941 Nell Hall No. 1

Pace Project No.: 60146960

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.

PRL - Pace Reporting Limit.

RL - Reporting 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

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Project: | 074941 Nell Hall No. 1 |
|-------------------|------------------------|
| Pace Project No.: | 60146960 |

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------------|-----------------|------------|-------------------|---------------------|
| 60146960001 | 074941-061213-JK-MW4 | EPA 3010 | MPRP/23127 | EPA 6010 | ICP/18251 |
| 60146960002 | 074941-061213-JK-MW5 | EPA 3010 | MPRP/23127 | EPA 6010 | ICP/18251 |
| 60146960003 | 074941-061213-JK-MW6 | EPA 3010 | MPRP/23127 | EPA 6010 | ICP/18251 |
| 60146960001 | 074941-061213-JK-MW4 | EPA 8260 | MSV/54541 | | |
| 60146960002 | 074941-061213-JK-MW5 | EPA 8260 | MSV/54541 | | |
| 60146960003 | 074941-061213-JK-MW6 | EPA 8260 | MSV/54541 | | |
| 60146960004 | 074941-061213-JK-DUP | EPA 8260 | MSV/54541 | | |
| 60146960005 | TRIP BLANK | EPA 8260 | MSV/54541 | | |



Sample Condition Upon Receipt

WO#:60146960

| Client Name: Cop. CRA | Optional |
|--|--|
| Courier: Fed Ex UPS USPS Client Commercial | tion to be a second |
| Tracking #: Son 363 7418 Pace Shipping Labe | |
| Custody Seal on Cooler/Box Present: Yes No D Seals intact: | |
| | m ∠ None □ Other □ |
| | Blue None Samples received on ice, cooling process has begun. |
| Cooler Temperature: <u>7-6</u> (c | Date and initials of person examining |
| Temperature should be above freezing to 6°C | contents: <u>(0 14 13</u> |
| Chain of Custody present: | A 1. |
| Chain of Custody filled out: | A 2. |
| Chain of Custody relinquished: | A 3. |
| Sampler name & signature on COC: | A 4. |
| Samples arrived within holding time: | A 5. |
| Short Hold Time analyses (<72hr): | ^{/A} 6. |
| Rush Turn Around Time requested: | /A 7. |
| Sufficient volume: | /A β. |
| Correct containers used: | /A |
| Pace containers used: | /A 9. |
| Containers intact: | /A 10. |
| Unpreserved 5035A soils frozen w/in 48hrs? QYes No | Ā 11. |
| Filtered volume received for dissolved tests? | IA 12. |
| Sample labels match COC: | IA |
| Includes date/time/ID/analyses Matrix: UT | 13. |
| All containers needing preservation have been checked. | /A |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ^{/A} 14. |
| Exceptions: VØA, coliform, TOC, O&G, WI-DRO (water), VYes 🗆 No | Initial when Lot # of added completed preservative |
| Trip Blank present: | |
| Pace Trip Blank lot # (if purchased): 050613.3 | 15. |
| Headspace in VOA vials (>6mm): | |
| | 16. 2 of 3 - Dup |
| Project sampled in USDA Regulated Area: | |
| Client Notification/ Resolution: Copy COC to Client? Y | N Field Data Required? Y / N |
| Person Contacted: Date/Time: | |
| Comments/ Resolution: | <u> </u> |
| | |
| | 1.117/12 |
| Project Manager Review: | |

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

| Section A Required O | lient information: | Section B Required Project Information: | ormation: | | | Section C Invoice Information: | mation: | | | | | | Page: | of | | - |
|-------------------------|---|--|-------------------------------------|-------------------------|---|-----------------------------------|---|-------------------------------|---|-----------------------------------|-------------------|----------|------------------|---|-----------------------------|----------|
| Company: | COP CRA NM | Report To: Christine Mathews | e Mathews | | | Attention: | ePayables | ŝ | | | | | | | | . 1 |
| Address: | 6121 Indian School Rd NE, Ste 200 | Copy To: Kelly BI | Kelly Blanchard, Angela Bown, Cassi | own, Cassie | e Brown | Company Name | ame: | | | RE | REGULATORY AGENCY | Y AGENCY | | | | |
| | Albequerque, NM 87110 | | | | | Address: | | | | L | NPDES | L GROUN | GROUND WATER | F" DRINKI | DRINKING WATER | - |
| Email To: | cmathews@craworld.com | Purchase Order No .: | 4517146284 | | | Pace Quote Reference: | | | | | UST | ☐ RCRA | | Г ОТНЕК | | - |
| Phone: | (505)884-0672 Fax (505)884-4932 F | Project Name: Ne | Nell Hall No.1 | | | Pace Project Manager | Alice Flanagan | lagan | | S | Site Location | NIN | | | | |
| Request | Requested Due Date/TAT: standard | Project Number. 074941 | 4941 | | | Pace Profile | # 5514, 23 | | | | STATE: | | | | | |
| | | | | | | | | | | Requested Analysis Filtered (Y/N) | alysis Filter | (N/A) pa | | | | |
| | Section D Valid Matrix Codes Required Client Information <u>MATRIX</u> <u>CO</u> | (jî ei o | | COLLECTED | | | Preservatives | ives | 1 N /A | | | | | | | mu |
| | DRINKINS WATER WATER WASTE WATER PRODUCT SCIL/SOLID OIL | l seboo bilav eea | COMPOSITE START | COMPOSITE END/GRAB | | S | | | | | | | (N\Y) 9I | (Jo14 | (po14694 0 | |
| # W3 | E IER SUE | | | | TA 9M9LE TEMP AT 0 | OF CONTAINER | 190H ICI INO ³ I ⁵ 2O ⁴ |)ther lethanol letharol | 260 BTEX X378 0350 X378 0350 | bəvlozziQ 010 | | | Residual Chlorin | Droioro | Dave Drviart No / Lah I D | |
| л - | ATHONIA IN MAN IN - MANUL | ŤĚ | DATE | M. 1712 | 1456 | | + m + | 1 | 8 🗙 | | | | 30 | 3069H 1083 | P3F2-001 | - |
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| 4 | -061213-14 | 5 | | | | m | m | | × | | | | | (| 400 | _ |
| s | TRIP BUANK | 23 | | | | 3 | _ | | | | | | | V(T8) | 500 | |
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| | ADDITIONAL COMMENTS | RELING | RELINQUISHED BY / AFFILATION | NON | DATE | TIME | _ | ACCEPTED BY / AFFILIATION | BY / AFFIL | IATION | DATE | TIME | | SAMPLE CONDITIONS | DITIONS | - |
| | | 17g | 5 | | 5-13-13 | 130 | | FBrackett | Pr. | Ŷ | 6 14 | 0320 | 220 | 7 | > | |
| | × | | | | | | | | | | | | | | | rr- |
| Pag | | | SAMPI | SAMPLER NAME A | ND SIGNATURE | ₩ | | | | | | | | (1 | tact | -r |
| e 17 of 1 | | | | PRINT Name SIGNATURE | PRINT Name of SAMPLER: SIGNATURE of SAMPLER: | Kelly | w William | ams | T DAT (MN | DATE Signed | 12/12/13 | | ni qməT | Ice (Y/Y) eol Custod Coseled Co O belse2 | (MM) II seiqms2 (NYY) | 1 |
| 7 | | | | | | - | 2 | 3 | 3 | | - | | F-ALL-0-02 | F-AIT-0-020rev 08, 12-Oct-2007 | ct-2007 | |

"Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any involces not paid within 30 days

F-ALL-Q-020rev 08, 12-Oct-2007





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

September 27, 2013

Christine Matthews CRA 6121 Indian School Rd NE Suite 200 Albuquerque, NM 87110

RE: Project: 074941 Nell Hall No. 1 Pace Project No.: 60153068

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanazan

Alice Flanagan

alice.flanagan@pacelabs.com Project Manager

Enclosures

cc: Kelly Blanchard, COP Conestoga-Rovers & Associa Angela Bown, COP Conestoga-Rovers & Associa Jeff Walker, COP Conestoga-Rovers & Associa





CERTIFICATIONS

Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 WY STR Certification #: 2456.01 Arkansas Certification #: 13-012-0 Illinois Certification #: 003097 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-13-4 Utah Certification #: KS000212013-3 Illinois Certification #: 003097



SAMPLE SUMMARY

Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|--------------------------|--------|----------------|----------------|
| 60153068001 | GW-074941-091113-CM-MW-4 | Water | 09/11/13 19:00 | 09/13/13 08:30 |
| 60153068002 | GW-074941-091113-CM-MW-5 | Water | 09/11/13 18:45 | 09/13/13 08:30 |
| 60153068003 | GW-074941-091113-CM-MW-6 | Water | 09/11/13 19:10 | 09/13/13 08:30 |
| 60153068004 | GW-074941-091113-CM-DUP | Water | 09/11/13 19:15 | 09/13/13 08:30 |
| 60153068005 | TB-074941-091213-CM-001 | Water | 09/12/13 12:30 | 09/13/13 08:30 |



SAMPLE ANALYTE COUNT

 Project:
 074941 Nell Hall No. 1

 Pace Project No.:
 60153068

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------------------|----------|----------|----------------------|
| 60153068001 | | EPA 6010 | NDJ | 1 |
| | | EPA 8260 | PRG | 8 |
| 60153068002 | GW-074941-091113-CM-MW-5 | EPA 6010 | NDJ | 1 |
| | | EPA 8260 | PRG | 8 |
| 60153068003 | GW-074941-091113-CM-MW-6 | EPA 6010 | NDJ | 1 |
| | | EPA 8260 | PRG | 8 |
| 60153068004 | GW-074941-091113-CM-DUP | EPA 8260 | SDR | 8 |
| 60153068005 | TB-074941-091213-CM-001 | EPA 8260 | SDR | 8 |
| | | | | |



PROJECT NARRATIVE

Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

Method: EPA 6010

Description:6010 MET ICP, DissolvedClient:COP Conestoga-Rovers & Associates, Inc. NMDate:September 27, 2013

General Information:

3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



PROJECT NARRATIVE

Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

Method: EPA 8260

Description:8260 MSV UST, WaterClient:COP Conestoga-Rovers & Associates, Inc. NMDate:September 27, 2013

General Information:

5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/56415

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/56416

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| Sample: GW-074941-091113-CM- MW-4 | Lab ID: | 60153068001 | Collecte | d: 09/11/13 | 19:00 | Received: 09/ | 13/13 08:30 Ma | atrix: Water | |
|--------------------------------------|------------|---------------|-----------------|--------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical | Method: EPA 6 | 010 Prepa | ration Methe | od: EPA | A 3010 | | | |
| Iron, Dissolved | ND u | g/L | 50.0 | 11.6 | 1 | 09/19/13 00:00 | 09/20/13 12:44 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | ND u | g/L | 1.0 | 0.060 | 1 | | 09/20/13 07:03 | 71-43-2 | |
| Ethylbenzene | ND u | g/L | 1.0 | 0.18 | 1 | | 09/20/13 07:03 | 100-41-4 | |
| Toluene | ND u | g/L | 1.0 | 0.17 | 1 | | 09/20/13 07:03 | 108-88-3 | |
| Xylene (Total) <i>Surrogates</i> | ND u | g/L | 3.0 | 0.42 | 1 | | 09/20/13 07:03 | 1330-20-7 | |
| Toluene-d8 (S) | 103 % | 6 | 80-120 | | 1 | | 09/20/13 07:03 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 % | 6 | 80-120 | | 1 | | 09/20/13 07:03 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 89 % | 6 | 80-120 | | 1 | | 09/20/13 07:03 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 09/20/13 07:03 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| Sample: GW-074941-091113-CM- MW-5 | Lab ID: | 60153068002 | Collecte | d: 09/11/13 | 18:45 | Received: 09/ | 13/13 08:30 Ma | atrix: Water | |
|--------------------------------------|----------------|---------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical | Method: EPA 6 | 010 Prepa | ration Meth | od: EPA | \ 3010 | | | |
| Iron, Dissolved | 72.3 ug | g/L | 50.0 | 11.6 | 1 | 09/19/13 00:00 | 09/20/13 12:46 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | ND ug | g/L | 1.0 | 0.060 | 1 | | 09/20/13 07:18 | 71-43-2 | |
| Ethylbenzene | ND ug | g/L | 1.0 | 0.18 | 1 | | 09/20/13 07:18 | 100-41-4 | |
| Toluene | ND ug | g/L | 1.0 | 0.17 | 1 | | 09/20/13 07:18 | 108-88-3 | |
| Xylene (Total) <i>Surrogates</i> | ND uç | g/L | 3.0 | 0.42 | 1 | | 09/20/13 07:18 | 1330-20-7 | |
| Toluene-d8 (S) | 105 % | , | 80-120 | | 1 | | 09/20/13 07:18 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 % | , | 80-120 | | 1 | | 09/20/13 07:18 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 89 % | , | 80-120 | | 1 | | 09/20/13 07:18 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 09/20/13 07:18 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| Sample: GW-074941-091113-CM- MW-6 | Lab ID: | 60153068003 | Collecte | d: 09/11/13 | 19:10 | Received: 09/ | 13/13 08:30 Ma | atrix: Water | |
|--------------------------------------|---------------|---------------|-----------------|--------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| | | | | | | | | | Quai |
| 6010 MET ICP, Dissolved | Analytical | Method: EPA 6 | 010 Prepa | ration Methe | od: EPA | 3010 | | | |
| Iron, Dissolved | 2260 u | g/L | 50.0 | 11.6 | 1 | 09/19/13 00:00 | 09/20/13 12:48 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | 109 u | g/L | 1.0 | 0.060 | 1 | | 09/20/13 07:33 | 71-43-2 | |
| Ethylbenzene | 20.8 u | g/L | 1.0 | 0.18 | 1 | | 09/20/13 07:33 | 100-41-4 | |
| Toluene | ND u | g/L | 1.0 | 0.17 | 1 | | 09/20/13 07:33 | 108-88-3 | |
| Xylene (Total) <i>Surrogates</i> | 12.3 u | g/L | 3.0 | 0.42 | 1 | | 09/20/13 07:33 | 1330-20-7 | |
| Toluene-d8 (S) | 104 % | , D | 80-120 | | 1 | | 09/20/13 07:33 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 % | , D | 80-120 | | 1 | | 09/20/13 07:33 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 90 % | , D | 80-120 | | 1 | | 09/20/13 07:33 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 09/20/13 07:33 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| Sample: GW-074941-091113-CM- DUP | Lab ID: | 60153068004 | Collecte | d: 09/11/13 | 19:15 | Received: 09 | /13/13 08:30 Ma | atrix: Water | |
|-------------------------------------|---------------|---------------|----------|-------------|-------|--------------|-----------------|--------------|------|
| | | | Report | | | | | | |
| Parameters | Results | Units | Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST, Water | Analytical | Method: EPA 8 | 260 | | | | | | |
| Benzene | 93.7 ι | ıg/L | 1.0 | 0.055 | 1 | | 09/19/13 15:09 | 71-43-2 | |
| Ethylbenzene | 19.1 ι | ıg/L | 1.0 | 0.056 | 1 | | 09/19/13 15:09 | 100-41-4 | |
| Toluene | ND u | ıg/L | 1.0 | 0.066 | 1 | | 09/19/13 15:09 | 108-88-3 | |
| Xylene (Total) | 11.4 ι | ıg/L | 3.0 | 0.12 | 1 | | 09/19/13 15:09 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 102 % | 6 | 80-120 | | 1 | | 09/19/13 15:09 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 105 % | 6 | 80-120 | | 1 | | 09/19/13 15:09 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 108 % | 6 | 80-120 | | 1 | | 09/19/13 15:09 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 09/19/13 15:09 | | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| Sample: TB-074941-091213-CM-00 | 1 Lab ID: | 60153068005 | Collecte | d: 09/12/13 | 3 12:30 | Received: 09/ | (13/13 08:30 Ma | atrix: Water | |
|--------------------------------|-----------|-----------------|----------|-------------|---------|---------------|-----------------|--------------|------|
| | | | Report | | | | | | |
| Parameters | Results | Units | Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST, Water | Analytica | I Method: EPA 8 | 3260 | | | | | | |
| Benzene | ND u | ug/L | 1.0 | 0.055 | 1 | | 09/19/13 15:26 | 71-43-2 | |
| Ethylbenzene | ND u | ug/L | 1.0 | 0.056 | 1 | | 09/19/13 15:26 | 100-41-4 | |
| Toluene | ND u | ug/L | 1.0 | 0.066 | 1 | | 09/19/13 15:26 | 108-88-3 | |
| Xylene (Total) | ND u | ug/L | 3.0 | 0.12 | 1 | | 09/19/13 15:26 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 100 9 | % | 80-120 | | 1 | | 09/19/13 15:26 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 102 9 | % | 80-120 | | 1 | | 09/19/13 15:26 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 106 9 | % | 80-120 | | 1 | | 09/19/13 15:26 | 17060-07-0 | |
| Preservation pH | 1.0 | | 1.0 | 0.10 | 1 | | 09/19/13 15:26 | | |



QUALITY CONTROL DATA

| | 74941 Nell Hall No. 1 | | | | | | | | | | | |
|--|------------------------------------|--------------------|-------------------|------------------------|-----------------------|--------------------|--------------------|-------------------|-----------|----------|-----|------|
| Pace Project No.: 60 | 0153068 | | | | | | | | | | | |
| QC Batch: | MPRP/24349 | | Analysi | s Method: | E | PA 6010 | | | | | | |
| QC Batch Method: | EPA 3010 | | Analysi | s Descriptio | on: 6 | 010 MET Dis | ssolved | | | | | |
| Associated Lab Sample | es: 60153068001, 6 | 0153068002 | , 601530680 | 03 | | | | | | | | |
| METHOD BLANK: 12 | 256522 | | М | atrix: Wate | ər | | | | | | | |
| Associated Lab Sample | es: 60153068001, 6 | 0153068002 | , 601530680 | 003 | | | | | | | | |
| | | | Blank | Re | porting | | | | | | | |
| Paramet | er | Units | Result | I | Limit | Analyz | ed | Qualifiers | | | | |
| Iron, Dissolved | ug/L | | | ND | 50.0 | 09/20/13 | 12:26 | | _ | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| LABORATORY CONTI | ROL SAMPLE: 1256 | 523 | | | | | | | | | | |
| LABORATORY CONT | ROL SAMPLE: 1256 | 523 | Spike | LCS | | LCS | % Rec | ; | | | | |
| LABORATORY CONTI Paramet | | 523 Units | Spike Conc. | LCS Result | t | LCS % Rec | % Rec Limits | | ualifiers | | | |
| | | | • | Result | t 9500 | | Limits | | ualifiers | | | |
| Paramet Iron, Dissolved | erug/L | Units | Conc. 10000 | Result | 9500 | % Rec | Limits | Qu | ualifiers | - | | |
| Paramet | erug/L | Units | 24 | Result | | % Rec | Limits | Qu | ualifiers | | | |
| Paramet Iron, Dissolved | rrix spike duplicat | Units E: 12565 | 24 MS | Result | 9500 | % Rec 95 | Limits 80 | Qu 1-120 | | - | May | |
| Paramet Iron, Dissolved MATRIX SPIKE & MAT | rer ug/L TRIX SPIKE DUPLICAT | Units E: 12565. | 24 MS Spike | Result MSD Spike | 9500 1256525 MS | % Rec 95 MSD | Limits 80 MS | Qu -120 MSD | % Rec | RPD | Max | Qual |
| Paramet Iron, Dissolved | rrix spike duplicat | Units E: 12565 | 24 MS | Result | 9500 | % Rec 95 | Limits 80 | Qu 1-120 | | RPD 0 | RPD | Qual |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

QC Batch: MSV/56415 QC Batch Method: EPA 8260

Analysis Method:

Matrix: Water

Analysis Description:

8260 MSV UST-WATER

EPA 8260

Associated Lab Samples: 60153068001, 60153068002, 60153068003

METHOD BLANK: 1256325

Associated Lab Samples: 60153068001, 60153068002, 60153068003

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Benzene | ug/L | ND | 1.0 | 09/20/13 02:33 | |
| Ethylbenzene | ug/L | ND | 1.0 | 09/20/13 02:33 | |
| Toluene | ug/L | ND | 1.0 | 09/20/13 02:33 | |
| Xylene (Total) | ug/L | ND | 3.0 | 09/20/13 02:33 | |
| 1,2-Dichloroethane-d4 (S) | % | 96 | 80-120 | 09/20/13 02:33 | |
| 4-Bromofluorobenzene (S) | % | 101 | 80-120 | 09/20/13 02:33 | |
| Toluene-d8 (S) | % | 102 | 80-120 | 09/20/13 02:33 | |

LABORATORY CONTROL SAMPLE: 1256326

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| Benzene | ug/L | 20 | 19.5 | 97 | 73-122 | |
| Ethylbenzene | ug/L | 20 | 19.6 | 98 | 76-123 | |
| Toluene | ug/L | 20 | 19.8 | 99 | 76-122 | |
| Xylene (Total) | ug/L | 60 | 59.0 | 98 | 76-122 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 97 | 80-120 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 80-120 | |
| Toluene-d8 (S) | % | | | 99 | 80-120 | |



Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

| QC Batch: | MSV/56416 |
|------------------|-----------|
| QC Batch Method: | EPA 8260 |

Analysis Method:

Analysis Description:

8260 MSV UST-WATER

EPA 8260

Associated Lab Samples: 60153068004, 60153068005

METHOD BLANK: 1256328

Matrix: Water

Associated Lab Samples: 60153068004, 60153068005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|-----------------|--------------------|----------------|------------|
| Benzene | ug/L | ND | 1.0 | 09/19/13 13:12 | |
| Ethylbenzene | ug/L | ND | 1.0 | 09/19/13 13:12 | |
| Toluene | ug/L | ND | 1.0 | 09/19/13 13:12 | |
| Xylene (Total) | ug/L | ND | 3.0 | 09/19/13 13:12 | |
| 1,2-Dichloroethane-d4 (S) | % | 105 | 80-120 | 09/19/13 13:12 | |
| 4-Bromofluorobenzene (S) | % | 100 | 80-120 | 09/19/13 13:12 | |
| Toluene-d8 (S) | % | 101 | 80-120 | 09/19/13 13:12 | |

LABORATORY CONTROL SAMPLE: 1256329

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| Benzene | ug/L | 20 | 18.9 | 95 | 73-122 | |
| Ethylbenzene | ug/L | 20 | 19.8 | 99 | 76-123 | |
| Toluene | ug/L | 20 | 20.0 | 100 | 76-122 | |
| Xylene (Total) | ug/L | 60 | 59.0 | 98 | 76-122 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 103 | 80-120 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 80-120 | |
| Toluene-d8 (S) | % | | | 101 | 80-120 | |



QUALIFIERS

Project: 074941 Nell Hall No. 1

Pace Project No.: 60153068

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.

PRL - Pace Reporting Limit.

RL - Reporting 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

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/56415

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/56416

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

| Project: | 074941 Nell Hall No. 1 |
|-------------------|------------------------|
| Pace Project No.: | 60153068 |

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------------|-----------------|------------|-------------------|---------------------|
| 60153068001 | GW-074941-091113-CM-MW-4 | EPA 3010 | MPRP/24349 | EPA 6010 | ICP/18990 |
| 60153068002 | GW-074941-091113-CM-MW-5 | EPA 3010 | MPRP/24349 | EPA 6010 | ICP/18990 |
| 60153068003 | GW-074941-091113-CM-MW-6 | EPA 3010 | MPRP/24349 | EPA 6010 | ICP/18990 |
| 60153068001 | GW-074941-091113-CM-MW-4 | EPA 8260 | MSV/56415 | | |
| 60153068002 | GW-074941-091113-CM-MW-5 | EPA 8260 | MSV/56415 | | |
| 60153068003 | GW-074941-091113-CM-MW-6 | EPA 8260 | MSV/56415 | | |
| 60153068004 | GW-074941-091113-CM-DUP | EPA 8260 | MSV/56416 | | |
| 60153068005 | TB-074941-091213-CM-001 | EPA 8260 | MSV/56416 | | |



Sample Condition Upon Receipt ESI Tech Spec Client

WO#:60153068

| Client Name: COP CRANM | | Optional |
|---|-------------------------|--|
| Courier: Fed Ex D UPS USPS Client Commercial | Pace Other | Proj Due Date: |
| Tracking #: 6011 3632 2277 Pace Shipping | Label Used? Yes 🖬 No 🛛 | |
| Custody Seal on Cooler/Box Present: Yes V No D Seals in | | h <u></u> h. |
| Packing Material: Bubble Wrap Bubble Bags | Foam 🗆 None 🗆 | Other DIPUL |
| Thermometer Used: (T-112// T-194 Type of Ice: | Vet Blue None 🗆 Samples | received on ice, cooling process has begun. |
| Cooler Temperature: L.S | (circle one) Da | te and initials of person examining |
| Temperature should be above freezing to 6°C | co | ntents: 9113113 6A |
| Chain of Custody present: | □N/A 1. | |
| Chain of Custody filled out: | □N/A 2, | |
| Chain of Custody relinquished: | □n/A 3. | |
| Sampler name & signature on COC: | □N/A 4, | |
| Samples arrived within holding time: | □n/A 5 . | |
| Short Hold Time analyses (<72hr): | □n/A 6. | |
| Rush Turn Around Time requested: | □N/A 7. | |
| Sufficient volume: | □n/A 8. | |
| Correct containers used: | □ N/A | |
| Pace containers used: | □N/A 9. | |
| Containers intact: | □N/A 10. | |
| Unpreserved 5035A soils frozen w/in 48hrs? | DN/A 11. | |
| Filtered volume received for dissolved tests? | ■ □N/A 12. | |
| Sample labels match COC: | | |
| Includes date/time/ID/analyses Matrix: VT | 13. | |
| All containers needing preservation have been checked. | D □N/A | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | D □N/A 14. | |
| Exceptions: OA coliform, TOC, O&G, WI-DRO (water), | Initial when completed | Lot # of added preservative |
| Trip Blank present: | | |
| Pace Trip Blank lot # (if purchased): 0 Sos(3-3 | 15 | |
| Headspace in VOA vials (>6mm): | D N/A | |
| | 16. | |
| Project sampled in USDA Regulated Area: | DINA 17. List State: | |
| Client Notification/ Resolution: Copy COC to Client? | Y (N) Field Data Re | equired? Y / N |
| Person Contacted: Date/Time: Date/Time: | | Temp Log : Record start and finish times when unpacking cooler, if >20 min, recheck sample temps. |
| | | Start: 1140 Start: |
| 11.1 | Aliala | End: 1145 End: |
| Project Manager Review: | Date 411313 | Temp: Temp: |

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Page: of | REGULATORY AGENCY | NPDES TKGROUND WATER T DRINKING WATER | UST 🕇 RCRA Γ OTHER | Site Location | STATE: | Requested Analysis Filtered (YIN) | ssidual Chlorine (Y/N) | | 200 9 | 400 Y | | | DATE TIME SAMPLE CONDITIONS C4/13/13 0530 (.5 y y | Temp in °C Cooler (Y/N) Cooler (Y/N) Cooler (Y/N) Cooler (Y/N) Cooler (Y/N) |
|--|----------------------|---------------------------------------|---------------------------------|---|------------------------------------|-----------------------------------|---|---|---------------------------|---------------------------|--|----------|---|--|
| Attention: ePayables | Company Name: REG | Address: | | et Alice Flanagan | Pace Profile #: 5514, 23 | Requested Analy | DF CONTRINERS Preserved (0, 20, 00, 00, 00, 00, 00, 00, 0 | 28 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | TIME ACCEPTED BY AFFILIATION | Michae Mathew Michae Wateres |
| Required Project Information: In Report To: Christine Mathews | a Bown | A. | r No.: 4517653456 | Project Name: Nell Hall No.1 | Project Number: 074941 | | MPLE TYPE (G=GRAB C=COMP) | S DATE TIME PATE TIME S | 0/10/ 2/1/10 | 9/4/13/9/5 | | | RELINQUISHED BY / AFFILIATION DATE | SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: |
| Section A Required Client Information: Rompany: COP CRA NM | chool Rd NE, Ste 200 | Albequerque, NM 87110 | Email To: cmathews@craworld.com | Phone: (505)884-0672 Fax: (505)884-4932 P | Requested Due Date/TAT: standard P | | Section D Required Client Information Required Client Information MATERIX WATER DW WATER DW W | E Subordy Hogilis-Con-Mul-4 | 2 Si O-GUANI-OBILIZ-CM-MU | 4 510-674941-691113-Cm-DL | 6 10-0110-0110-0110-0110-0110-0110-0110- | 11 12 | MUTALS LURE TICLA FILL | Page 18 of |



December 30, 2013

Jeff Walker COP Conestoga-Rovers & Associa 6121 Indian School Rd. NE Ste 200 Albuquerque, NM 87110

RE: Project: 074941 NELL HALL NO.1 Pace Project No.: 60159758

Dear Jeff Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Alice Flanazan

Alice Flanagan

alice.flanagan@pacelabs.com Project Manager

Enclosures

cc: Angela Bown, COP Conestoga-Rovers & Associa Christine Matthews, CRA





CERTIFICATIONS

Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 WY STR Certification #: 2456.01 Arkansas Certification #: 13-012-0 Illinois Certification #: 003097 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-13-4 Utah Certification #: KS000212013-3 Illinois Certification #: 003097



SAMPLE SUMMARY

Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| , | | | | |
|-------------|-------------------------|--------|----------------|----------------|
| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
| 60159758001 | GW-074941-122323-CM-MW4 | Water | 12/13/13 09:20 | 12/17/13 09:00 |
| 60159758002 | GW-074941-122323-CM-MW5 | Water | 12/13/13 09:05 | 12/17/13 09:00 |
| 60159758003 | GW-074941-122323-CM-MW6 | Water | 12/13/13 09:50 | 12/17/13 09:00 |
| 60159758004 | GW-074941-122323-CM-DUP | Water | 12/13/13 09:35 | 12/17/13 09:00 |
| 60159758005 | TRIP BLANK | Water | 12/13/13 00:00 | 12/17/13 09:00 |



SAMPLE ANALYTE COUNT

 Project:
 074941 NELL HALL NO.1

 Pace Project No.:
 60159758

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-------------------------|----------|----------|----------------------|
| 60159758001 | GW-074941-122323-CM-MW4 | EPA 6010 | TDS | 1 |
| | | EPA 8260 | JTS | 8 |
| 60159758002 | GW-074941-122323-CM-MW5 | EPA 6010 | TDS | 1 |
| | | EPA 8260 | JTS | 8 |
| 60159758003 | GW-074941-122323-CM-MW6 | EPA 6010 | TDS | 1 |
| | | EPA 8260 | JTS | 8 |
| 60159758004 | GW-074941-122323-CM-DUP | EPA 8260 | JTS | 8 |
| 60159758005 | TRIP BLANK | EPA 8260 | JTS | 8 |



PROJECT NARRATIVE

Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

Method: EPA 6010

Description:6010 MET ICP, DissolvedClient:COP Conestoga-Rovers & Associates, Inc. NMDate:December 30, 2013

General Information:

3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



PROJECT NARRATIVE

Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

Method: EPA 8260

Description:8260 MSV UST, WaterClient:COP Conestoga-Rovers & Associates, Inc. NMDate:December 30, 2013

General Information:

5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable): All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/58448

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/58457

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/58486

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| Sample: GW-074941-122323-CM- MW4 | Lab ID: 6015975800 | 1 Collected: 12/13/1 | 3 09:20 | Received: 12 | /17/13 09:00 | Matrix: Water | |
|-------------------------------------|------------------------|-----------------------|----------|----------------|----------------|---------------|------|
| Parameters | Results Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA | 6010 Preparation Meth | nod: EP/ | A 3010 | | | |
| Iron, Dissolved | 758 ug/L | 50.0 | 1 | 12/18/13 13:30 | 12/27/13 14:09 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical Method: EPA | 8260 | | | | | |
| Benzene | ND ug/L | 1.0 | 1 | | 12/18/13 23:40 | 71-43-2 | |
| Ethylbenzene | ND ug/L | 1.0 | 1 | | 12/18/13 23:40 | 100-41-4 | |
| Toluene | ND ug/L | 1.0 | 1 | | 12/18/13 23:40 | 108-88-3 | |
| Xylene (Total) Surrogates | ND ug/L | 3.0 | 1 | | 12/18/13 23:40 | 1330-20-7 | |
| Toluene-d8 (S) | 100 % | 80-120 | 1 | | 12/18/13 23:40 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 101 % | 80-120 | 1 | | 12/18/13 23:40 | | |
| 1,2-Dichloroethane-d4 (S) | 101 % | 80-120 | 1 | | 12/18/13 23:40 | 17060-07-0 | |
| Preservation pH | 1.0 | 1.0 | 1 | | 12/18/13 23:40 | | |



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| Sample: GW-074941-122323-CM- MW5 | Lab ID: 60159758002 | 2 Collected: 12/13/13 | 3 09:05 | 5 Received: 12 | 2/17/13 09:00 N | Aatrix: Water | |
|-------------------------------------|------------------------|-----------------------|---------|----------------|-----------------|---------------|------|
| Parameters | Results Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA | 6010 Preparation Meth | od: EP | A 3010 | | | |
| Iron, Dissolved | 76.0 ug/L | 50.0 | 1 | 12/18/13 13:30 | 12/27/13 14:11 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical Method: EPA | 8260 | | | | | |
| Benzene | ND ug/L | 1.0 | 1 | | 12/18/13 23:56 | 71-43-2 | |
| Ethylbenzene | ND ug/L | 1.0 | 1 | | 12/18/13 23:56 | 100-41-4 | |
| Toluene | ND ug/L | 1.0 | 1 | | 12/18/13 23:56 | 108-88-3 | |
| Xylene (Total) | ND ug/L | 3.0 | 1 | | 12/18/13 23:56 | 1330-20-7 | |
| Surrogates | - | | | | | | |
| Toluene-d8 (S) | 100 % | 80-120 | 1 | | 12/18/13 23:56 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 % | 80-120 | 1 | | 12/18/13 23:56 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 101 % | 80-120 | 1 | | 12/18/13 23:56 | 17060-07-0 | |
| Preservation pH | 1.0 | 1.0 | 1 | | 12/18/13 23:56 | | |



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| Sample: GW-074941-122323-CM- MW6 | Lab ID: 60159758003 | 3 Collected: 12/13/1 | 3 09:50 |) Received: 12 | 2/17/13 09:00 N | Aatrix: Water | |
|-------------------------------------|------------------------|-----------------------|---------|----------------|-----------------|---------------|------|
| Parameters | Results Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytical Method: EPA | 6010 Preparation Meth | nod: EP | A 3010 | | | |
| Iron, Dissolved | 5900 ug/L | 50.0 | 1 | 12/18/13 13:30 | 12/27/13 14:13 | 7439-89-6 | |
| 8260 MSV UST, Water | Analytical Method: EPA | 8260 | | | | | |
| Benzene | 467 ug/L | 10.0 | 10 | | 12/19/13 16:43 | 71-43-2 | |
| Ethylbenzene | 101 ug/L | 1.0 | 1 | | 12/19/13 00:12 | 100-41-4 | |
| Toluene | ND ug/L | 1.0 | 1 | | 12/19/13 00:12 | 108-88-3 | |
| Xylene (Total) | 53.7 ug/L | 3.0 | 1 | | 12/19/13 00:12 | 1330-20-7 | |
| Surrogates | - | | | | | | |
| Toluene-d8 (S) | 99 % | 80-120 | 1 | | 12/19/13 00:12 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 110 % | 80-120 | 1 | | 12/19/13 00:12 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 97 % | 80-120 | 1 | | 12/19/13 00:12 | 17060-07-0 | |
| Preservation pH | 1.0 | 1.0 | 1 | | 12/19/13 00:12 | | |



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| Sample: GW-074941-122323-CM- DUP | Lab ID: 60 ⁴ | Lab ID: 60159758004 | | Collected: 12/13/13 09:35 | | Received: 12/17/13 09:00 | | Matrix: Water | |
|-------------------------------------|-------------------------|---------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report | Limit | DF | Prepared | Analyzed | CAS No. | Qual |
| 8260 MSV UST, Water | Analytical Me | thod: EPA 82 | 260 | | | | | | |
| Benzene | 456 u | g/L | | 10.0 | 10 | | 12/19/13 16:59 | 71-43-2 | |
| Ethylbenzene | 77.7 u | g/L | | 1.0 | 1 | | 12/19/13 02:38 | 3 100-41-4 | |
| Toluene | ND u | g/L | | 1.0 | 1 | | 12/19/13 02:38 | 3 108-88-3 | |
| Xylene (Total) | 49.1 u | g/L | | 3.0 | 1 | | 12/19/13 02:38 | 1330-20-7 | |
| Surrogates | | | | | | | | | |
| Toluene-d8 (S) | 99 % | D | 8 | 30-120 | 1 | | 12/19/13 02:38 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 106 % | , D | 8 | 30-120 | 1 | | 12/19/13 02:38 | 3 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 94 % | D | 8 | 30-120 | 1 | | 12/19/13 02:38 | 3 17060-07-0 | |
| Preservation pH | 1.0 | | | 1.0 | 1 | | 12/19/13 02:38 | 3 | |



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| Sample: TRIP BLANK | Lab ID: 6015975800 | 5 Collected: 12/13/ | 13 00:00 | Received: 12 | 2/17/13 09:00 N | Aatrix: 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 | | 12/19/13 01:49 | 71-43-2 | |
| Ethylbenzene | ND ug/L | 1.0 | 1 | | 12/19/13 01:49 | 100-41-4 | |
| Toluene | ND ug/L | 1.0 | 1 | | 12/19/13 01:49 | 108-88-3 | |
| Xylene (Total) | ND ug/L | 3.0 | 1 | | 12/19/13 01:49 | 1330-20-7 | |
| Surrogates | - | | | | | | |
| Toluene-d8 (S) | 99 % | 80-120 | 1 | | 12/19/13 01:49 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 % | 80-120 | 1 | | 12/19/13 01:49 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 100 % | 80-120 | 1 | | 12/19/13 01:49 | 17060-07-0 | |
| Preservation pH | 1.0 | 1.0 | 1 | | 12/19/13 01:49 | | |



| Project: | 074941 N | ELL HALL NO.1 | | | | | | | | | | | |
|--------------------|------------|----------------|--------------|------------|-------------|----------|------------|---------|------------|-----------|-----|-----|------|
| Pace Project No .: | 60159758 | | | | | | | | | | | | |
| QC Batch: | MPRP/2 | 5648 | | Analys | is Method: | : E | PA 6010 | | | | | | |
| QC Batch Method: | EPA 301 | 0 | | Analys | is Descript | tion: 6 | 010 MET Di | ssolved | | | | | |
| Associated Lab Sar | mples: 60 | 0159758001, 60 | 159758002 | , 60159758 | 003 | | | | | | | | |
| METHOD BLANK: | 1307870 | | | N | latrix: Wa | ter | | | | | | | |
| Associated Lab Sar | nples: 60 | 159758001, 60 | 159758002 | , 60159758 | 003 | | | | | | | | |
| | | | | Blank | R | eporting | | | | | | | |
| Parar | neter | I | Jnits | Resul | t | Limit | Analyz | ed | Qualifiers | | | | |
| Iron, Dissolved | | ug/L | | | ND | 50.0 |) 12/27/13 | 13:33 | | | | | |
| LABORATORY CO | NTROL SAM | MPLE: 13078 | 71 | | | | | | | | | | |
| | | | | Spike | LCS | 5 | LCS | % Rec | > | | | | |
| Parar | neter | ı | Jnits | Conc. | Resu | ılt | % Rec | Limits | Q | ualifiers | | | |
| Iron, Dissolved | | ug/L | | 10000 | | 9720 | 97 | 80 | -120 | | - | | |
| MATRIX SPIKE & M | IATRIX SPI | KE DUPLICATE | : 13078 | 72 | | 1307873 | | | | | | | |
| | | | | MS | MSD | | | | | | | | |
| | | | 59732001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parame | ter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| Iron, Dissolved | | ug/L | 25.4 mg/L | 10000 | 10000 | 33900 | 34500 | 84 | 90 | 75-125 | 2 | 20 | |



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| QC Batch: | MSV/58448 | Analysis Method: | EPA 8260 |
|--------------------|-----------------------------------|-----------------------|--------------------|
| QC Batch Method: | EPA 8260 | Analysis Description: | 8260 MSV UST-WATER |
| Associated Lab Sam | ples: 60159758001, 60159758002, 6 | 0159758003 | |

METHOD BLANK: 1307952 Matrix: Water Associated Lab Samples: 60159758001, 60159758002, 60159758003

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Benzene | ug/L | ND | 1.0 | 12/18/13 18:48 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/18/13 18:48 | |
| Toluene | ug/L | ND | 1.0 | 12/18/13 18:48 | |
| Xylene (Total) | ug/L | ND | 3.0 | 12/18/13 18:48 | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 80-120 | 12/18/13 18:48 | |
| 4-Bromofluorobenzene (S) | % | 100 | 80-120 | 12/18/13 18:48 | |
| Toluene-d8 (S) | % | 100 | 80-120 | 12/18/13 18:48 | |

LABORATORY CONTROL SAMPLE: 1307953

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| Benzene | ug/L | 20 | 19.9 | 99 | 73-122 | |
| Ethylbenzene | ug/L | 20 | 20.0 | 100 | 76-123 | |
| Toluene | ug/L | 20 | 19.8 | 99 | 76-122 | |
| Xylene (Total) | ug/L | 60 | 59.6 | 99 | 76-122 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 100 | 80-120 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 80-120 | |
| Toluene-d8 (S) | % | | | 100 | 80-120 | |



Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

| QC Batch: MSV | /58457 | Analysis Met | had: E | PA 8260 | |
|---------------------------|--------------------------|--------------|--------------|-----------------|------------|
| | | 2 | | | |
| QC Batch Method: EPA | 8260 | Analysis Des | cription: 82 | 260 MSV UST-WAT | ER |
| Associated Lab Samples: | 60159758004, 60159758005 | | | | |
| METHOD BLANK: 130814 | 47 | Matrix: | Water | | |
| Associated Lab Samples: | 60159758004, 60159758005 | | | | |
| | | Blank | Reporting | | |
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| Benzene | | ND | 1.0 | 12/19/13 01:33 | |
| Ethylbenzene | ug/L | ND | 1.0 | 12/19/13 01:33 | |
| Toluene | ug/L | ND | 1.0 | 12/19/13 01:33 | |
| Xylene (Total) | ug/L | ND | 3.0 | 12/19/13 01:33 | |
| , , , | | | | | |
| 1,2-Dichloroethane-d4 (S) | % | 101 | 80-120 | 12/19/13 01:33 | |

LABORATORY CONTROL SAMPLE: 1308148

%

Toluene-d8 (S)

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|----------------|---------------|--------------|-----------------|------------|
| Benzene | ug/L | 20 | 19.5 | 98 | 73-122 | |
| Ethylbenzene | ug/L | 20 | 19.6 | 98 | 76-123 | |
| Toluene | ug/L | 20 | 18.3 | 92 | 76-122 | |
| Xylene (Total) | ug/L | 60 | 59.0 | 98 | 76-122 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 95 | 80-120 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 80-120 | |
| Toluene-d8 (S) | % | | | 94 | 80-120 | |

100

80-120 12/19/13 01:33



Project: 074941 NELL HALL NO.1

Pace

| QC Batch: MSV/58 QC Batch Method: EPA 826 Associated Lab Samples: 60 | | Analysis Me Analysis De | | EPA 8260 8260 MSV US | ST-WATER | | |
|--|----------------------------------|----------------------------|----------------------|-------------------------|-----------------|------------|--|
| METHOD BLANK: 1308666 | | Matrix | : Water | | | | |
| Associated Lab Samples: 6 Parameter | 0159758003, 60159758004 Units | Blank Result | Reporting Limit | Analyz | ed Qua | alifiers | |
| Benzene 1,2-Dichloroethane-d4 (S) 4-Bromofluorobenzene (S) | ug/L % % | ND 99 101 | 1. 80-12 80-12 | | 13:14 | | |
| Toluene-d8 (S) | % | 99 | 80-12 | | - | | |
| LABORATORY CONTROL SA | MPLE: 1308667 | Calles | 1.00 | 1.00 | 0/ Dag | | |
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers | |

| Benzene | ug/L | 20 | 19.2 | 96 | 73-122 | |
|---------------------------|------|----|------|-----|--------|--|
| 1,2-Dichloroethane-d4 (S) | % | | | 98 | 80-120 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 80-120 | |
| Toluene-d8 (S) | % | | | 100 | 80-120 | |



QUALIFIERS

Project: 074941 NELL HALL NO.1

Pace Project No.: 60159758

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.

PRL - Pace Reporting Limit.

RL - Reporting 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

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/58448

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume. Batch: MSV/58457

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/58486

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

 Project:
 074941 NELL HALL NO.1

 Pace Project No.:
 60159758

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------------|-----------------|------------|-------------------|---------------------|
| 60159758001 | GW-074941-122323-CM-MW4 | EPA 3010 | MPRP/25648 | EPA 6010 | ICP/19687 |
| 60159758002 | GW-074941-122323-CM-MW5 | EPA 3010 | MPRP/25648 | EPA 6010 | ICP/19687 |
| 60159758003 | GW-074941-122323-CM-MW6 | EPA 3010 | MPRP/25648 | EPA 6010 | ICP/19687 |
| 60159758001 | GW-074941-122323-CM-MW4 | EPA 8260 | MSV/58448 | | |
| 60159758002 | GW-074941-122323-CM-MW5 | EPA 8260 | MSV/58448 | | |
| 60159758003 | GW-074941-122323-CM-MW6 | EPA 8260 | MSV/58448 | | |
| 60159758003 | GW-074941-122323-CM-MW6 | EPA 8260 | MSV/58486 | | |
| 60159758004 | GW-074941-122323-CM-DUP | EPA 8260 | MSV/58457 | | |
| 60159758004 | GW-074941-122323-CM-DUP | EPA 8260 | MSV/58486 | | |
| 60159758005 | TRIP BLANK | EPA 8260 | MSV/58457 | | |



Sample Condition Upon Receipt ESI Tech Spec Client

WO#:60159758

| Client Name: Cor CRA | Optional |
|---|---|
| | ace Other Proj Due Date: |
| Tracking #: 5681127911263 Pace Shipping Label | |
| Custody Seal on Cooler/Box Present: Yes No Seals intact: | |
| Packing Material: Bubble Wrap D Bubble Bags Foam | |
| | lue None Samples received on ice, cooling process has begun. |
| | Date and initials of person examining |
| Temperature should be above freezing to 6°C | contents: <u><i>f</i><u></u><u><i>I</i></u><u><i>I</i><u></u><u><i>I</i></u><u><i>I</i></u><u><i>I</i></u><u><i>I</i></u><u><i>I</i></u><u></u></u></u> |
| Chain of Custody present: | 1. |
| Chain of Custody filled out: | 2. |
| Chain of Custody relinquished: | 3. 1 0920 |
| Sampler name & signature on COC: | 4. 2 0905 |
| Samples arrived within holding time: | 5. 3 0950 |
| Short Hold Time analyses (<72hr): | 6. 4 0935 |
| Rush Turn Around Time requested: | 7. |
| | 8. |
| Correct containers used: | |
| Pace containers used: | 9. |
| Containers intact: | 10. |
| Unpreserved 5035A soils frozen w/in 48hrs? | 11. |
| Filtered volume received for dissolved tests? | 12. |
| Sample labels match COC: | |
| Includes date/time/ID/analyses Matrix: | 13. |
| All containers needing preservation have been checked. | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | 14. |
| Exceptions: VOA) colliform, TOC, OSG, WI-DRO (water), | Initial when Lot # of added completed preservative |
| Trip Blank present: | |
| Pace Trip Blank lot # (if purchased): /////3-3 | 15. |
| Headspace in VOA vials (>6mm): | |
| / | 16. |
| Project sampled in USDA Regulated Area: | 17. List State: |
| Client Notification/ Resolution: Copy COC to Client? | N Field Data Required? Y / N |
| Person Contacted: Date/Time: | Temp Log: Record start and finish times |
| Comments/ Resolution: | when unpacking cooler, if >20 min, recheck sample temps. |
| | Start: //35 Start: |
| ANT | End: /190 End: |
| Project Manager Review: | Date: 11117 Temp: Temp: |
| | |

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| y Sealed y Seal | Custod Coole Sampl | Tem | 116/13 | 12 | DATE Signed (MM/DD/YY): | 8 | Ei | PAL A | N | No. | E. | S. | IPLER | SIGNATURE of SAMPLER | NATURE | SIGI | | | | | | | | | | | | | |
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