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2012 QUARTERLY GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS WILMUTH No. 1 SAN JUAN COUNTY, NEW MEXICO API# 30-045-10370 NMOCD# 3R-430

Prepared For:

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2012 QUARTERLY GROUNDWATER LABORATORY ANALYTICAL

APPENDIX B

REPORT

1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring events conducted during 2012 by Conestoga-Rovers & Associates, Inc. (CRA) at the ConocoPhillips Company (ConocoPhillips) Wilmuth No. 1 remediation site located north of Aztec, New Mexico (Site). The Site is located on private land leased to ConocoPhillips and is situated in Section 26, Township 31N, Range 11W, of San Juan County, New Mexico (Figure 1). Geographical coordinates for the Site are 36.864823° North and 107.964516° West. A Site vicinity map and Site plan are included as Figures 1 and 2, respectively.

1.1 <u>BACKGROUND</u>

The Wilmuth No. 1 natural gas well was spudded in 1958 by El Paso Natural Gas Company. Meridian Oil, Inc., a subsidiary of Burlington Resources, Inc. (Burlington), took over operation of the well on November 1, 1986. ConocoPhillips acquired Burlington on March 31, 2006.

A release of approximately 22 barrels (bbls) of produced water occurred within the bermed area surrounding the produced water tank on May 17, 2001. Twenty bbls were later recovered. A release of condensate occurred on December 17, 2002 from a corrosion hole in the condensate tank. Burlington excavated a total of 85 cubic yards of impacted soil and disposed of it at JFJ landfarm, located in Aztec, NM.

ConocoPhillips personnel notified the New Mexico Oil Conservation Division (NMOCD) in December 2009 of groundwater seeping into two separate areas that were undergoing excavation to remove stained soil discovered during line tie-in procedures. Four groundwater monitor wells were subsequently installed under the supervision of Tetra Tech in April, 2010. A generalized geologic cross section was produced using boring logs from monitor well installation at the Site. The cross section is presented as **Figure 3**. Tetra Tech began quarterly sampling immediately following development of the wells by collecting a baseline round of groundwater samples on April 8, 2010.

On June 15, 2011, Site consulting responsibilities were transferred from Tetra Tech to CRA of Albuquerque, NM. The most recent sampling event took place on December 12, 2012. The December 2012 sampling event marks the 12th consecutive round of quarterly sampling at the Site. A historical timeline is presented in **Table 1**.

2.0 MONITORING SUMMARY, SAMPLING METHODOLOGY, AND ANALYTICAL RESULTS

2.1 MONITORING SUMMARY

Groundwater quality monitoring events were conducted on March 7, June 6, September 19, and December 12, 2012 at the Wilmuth No. 1 site. Prior to collection of groundwater samples from Monitor Wells MW-1, MW-2, MW-3, and MW-4, depth to groundwater in each well was determined using an oil/water interface probe. Groundwater elevation data are summarized in **Table 2**. The casings for Site monitor wells were surveyed on April 8, 2010 using an arbitrary reference-elevation of 100 feet. The data obtained from the Site survey and groundwater elevations collected during the 2012 sampling events were used to create groundwater potentiometric surface maps for the Site (**Figures 4, 5, 6** and **7**, respectively). Using these data, it was determined that the groundwater flow direction at the Site is to the southwest.

2.2 GROUNDWATER SAMPLING METHODOLOGY

During the 2012 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, and oxidation-reduction potential (ORP) were collected using a YSI 556 multi-parameter sonde and results were recorded on CRA Well Sampling Field Information Forms (**Appendix A**). 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 for analysis.

Samples were analyzed for total dissolved solids (TDS) by SM 2540C and dissolved manganese by EPA Method 6010. This list of constituents was determined based on the analytical results from the groundwater baseline and initial Site groundwater quality concerns. Analytical results for all groundwater monitoring events at the Site are summarized in **Table 3** and discussed in more detail in the following section.

2.3 GROUNDWATER ANALYTICAL 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). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use. Exceedances of NMWQCC groundwater quality standards in Site monitor wells are discussed below. Results are summarized in **Table 3**.

March 2012

Dissolved Manganese

o The groundwater quality standard for dissolved manganese is 0.2 milligrams per liter (mg/L). Groundwater collected from all Site monitor wells was found to be above the standard for dissolved manganese during March 2012. Dissolved manganese concentrations were 0.955 mg/L, 1.62 mg/L, 1.69 mg/L, and 1.70 mg/L for wells MW-1, MW-2, MW-3, and MW-4, respectively.

June 2012

Dissolved Manganese

o Groundwater collected from all Site monitor wells was found to be above the standard for dissolved manganese during June 2012. Dissolved manganese concentrations were 0.886 mg/L, 1.26 mg/L, 1.74 mg/L, and 1.46 mg/L for wells MW-1, MW-2, MW-3, and MW-4, respectively.

September 2012

Dissolved Manganese

o Groundwater collected from all Site monitor wells was found to be above the standard for dissolved manganese during September 2012. Dissolved manganese concentrations were 0.915 mg/L, 1.39 mg/L, 1.60 mg/L, and 1.90 mg/L for wells MW-1, MW-2, MW-3, and MW-4, respectively.

December 2012

Dissolved Manganese

o Groundwater collected from all Site monitor wells was found to be above the standard for dissolved manganese during December 2012. Dissolved manganese concentrations were 0.979 mg/L, 1.11 mg/L, 1.57 mg/L, and 1.42 mg/L for wells MW-1, MW-2, MW-3, and MW-4, respectively.

The corresponding laboratory analytical reports, including quality control summaries, are included in **Appendix B**.

3.0 CONCLUSIONS AND RECOMMENDATIONS

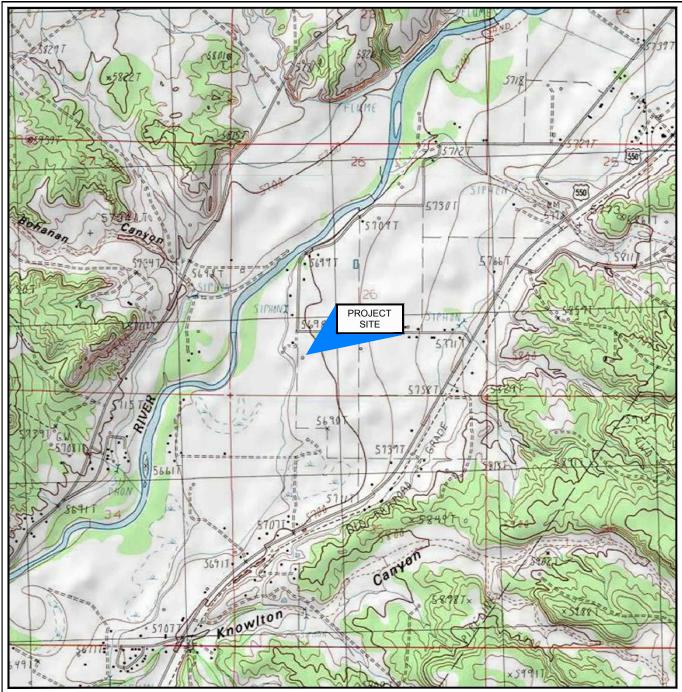
BTEX analysis was discontinued at the Site following the December 14, 2011 groundwater quality monitoring event, which represented the eighth consecutive quarterly sampling event with BTEX constituents below laboratory detection limits.

Groundwater samples from all Site monitor wells have continually exceeded the NMWQCC groundwater quality standard for dissolved manganese, which has remained stable over time in all Site monitor wells. Groundwater samples from all Site monitor wells have intermittently exceeded the standard for TDS.

Quarterly analysis will continue for dissolved manganese and TDS for all Site monitor wells until the June 2013 quarterly sampling event. Following this sampling event, TDS analysis will continue to be performed quarterly and dissolved manganese analysis will be performed every two years during September. Once manganese is detected at levels below the standard for all Site monitor wells, quarterly sampling will resume for manganese only. When eight consecutive quarters of data within compliance levels or at background concentrations has been achieved, remediation Site closure will be requested.

The next groundwater monitoring event at the Site is scheduled for March 2013.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD "CEDAR HILL AND AZTEC, NEW MEXICO"

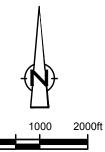


Figure 1

SITE VICINITY MAP WILMUTH NO. 1 NATURAL GAS WELL SITE SECTION 26, T31N-R11W, SAN JUAN COUNDY, NEW MEXICO ConocoPhillips Company





ConocoPhillips high resolution aerial imagery 2008.

Figure 2
SITE PLAN
WILMUTH NO. 1 NATURAL GAS WELL SITE
SECTION 26, T31-R11W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company



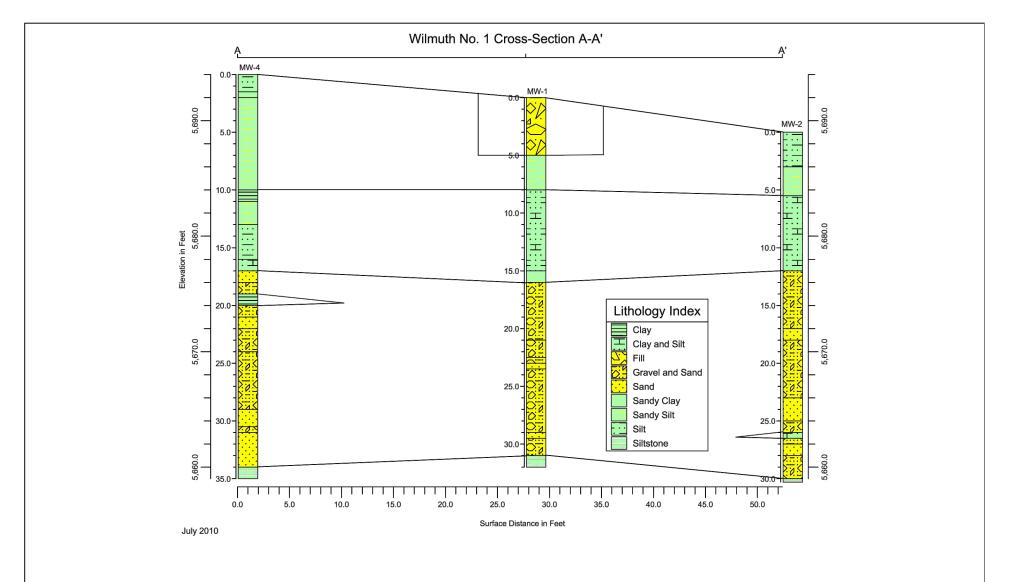
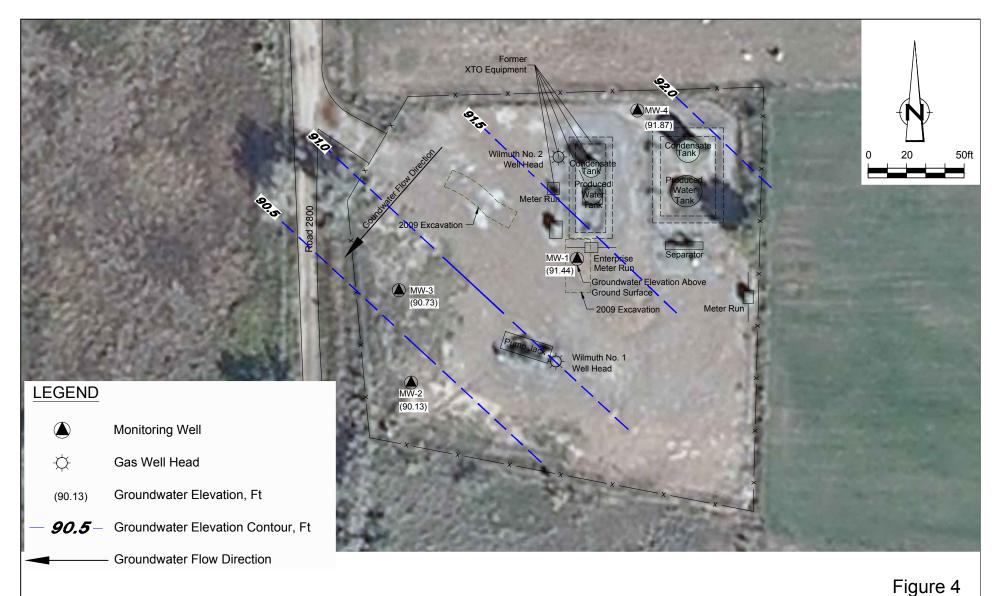


Figure 3

GEOLOGICAL CROSS SECTION
WILMUTH NO. 1 NATURAL GAS WELL SITE
SECTION 26, T31-R11W, SAN JUAN COUNTY, NEW MEXICO
ConocoPhillips Company







MARCH 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP WILMUTH NO. 1 NATURAL GAS WELL PRODUCTION SITE SECTION 26, T31-R11W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company





JUNE 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP WILMUTH NO. 1 NATURAL GAS WELL PRODUCTION SITE SECTION 26, T31-R11W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company

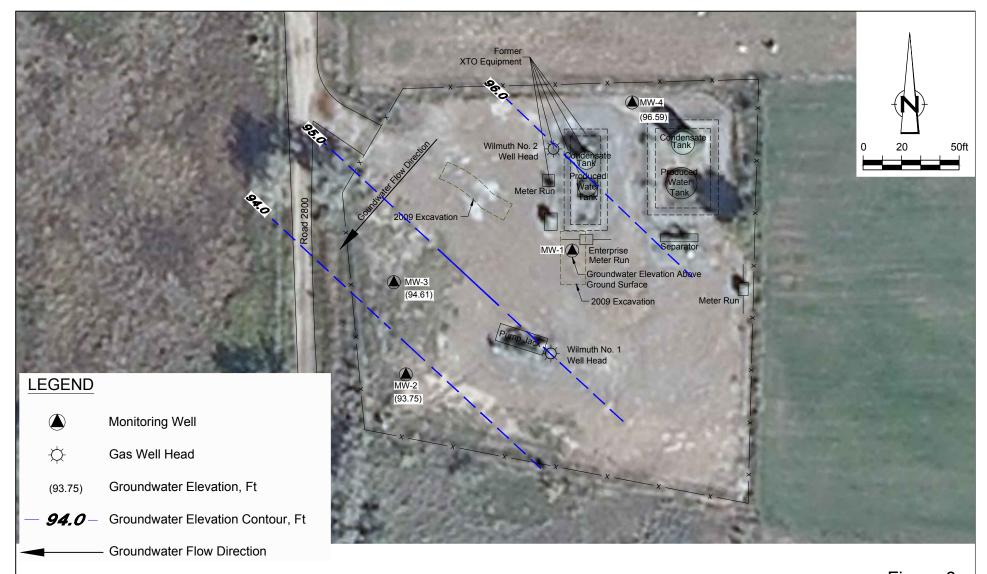


Figure 6

SEPTEMBER 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP WILMUTH NO. 1 NATURAL GAS WELL PRODUCTION SITE SECTION 26, T31-R11W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company







DECEMBER 2012 GROUNDWATER POTENTIOMETRIC SURFACE MAP WILMUTH NO. 1 NATURAL GAS WELL PRODUCTION SITE SECTION 26, T31-R11W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company

SITE HISTORY TIMELINE CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Date/Time Period | Event/Action | Description/Comments | | | |
|-------------------------------------|--|--|--|--|--|
| July 24, 1958 to August 11, 1958 | Production Well Completion | Well spudded and completed by El Paso Natural Gas Company. | | | |
| November 1, 1986 | Change of Operator | Operator changed from El Paso Natural Gas Company to Meridian Oil Inc. (a subsidiary of Burlington Resources, Inc.) | | | |
| May 17, 2001 | Release | Due to a broken dump arm, 22 barrels (bbls) of produced water were released within the bermed area around the produced water tank. 20 bbls were reported to be recovered. | | | |
| December 17, 2002 | Release | A corrosion hole in the bottom of a steel pit tank that collected fluids from the separator and condensate tank drain allowed an unknown volume of produced water and condensate to leak onto the ground. All fluids were contained inside the tank berm. Impacted gravel and soils were excavated and disposed of at JFJ Landfarm. Excavation dimensions were approximately 30 feet by 25 feet by 3 feet for a total of 85 cubic yards. | | | |
| May 21, 2004 | Workover Pit Proposal Approved | A lined workover pit was approved by Denny Faust of the NMOCD as detailed in Burlington Resources general pit construction plan dated April 26, 2004 which was also approved by the NMOCD. | | | |
| March 31, 2006 | Change of Operator | ConocoPhillips Company completed acquisition of Burlington Resources. | | | |
| December 22 and 23, 2009 | Potential for Groundwater Impacts Discovered | ConocoPhillips company notified Brandon Powell and Kelly Roberts of the NMOCD about groundwater seeping into two excavated areas on Site where discolored soils had been found during line tie-in procedures. The type, volume, and origin of the initial release was unknown. Groundwater samples were collected from the two areas and analyzed by Envirotech Inc. of Farmington, NM for benzene, toluene, ethylbenzene and total xylenes (BTEX), total petroleum hydrocarbons (TPH) and chloride. Analytical results indicated that BTEX and TPH are below NMWQCC groundwater standards; however, chloride was present at a concentration above the standard of 250 mg/L with a concentration of 2,500 mg/L in the area of the excavation and a concentration of 950 mg/L in an trench associated with line tie-in procedures. Soil samples were collected from the same trench and groundwater samples were collected from where discolored soil was present. The soil was analyzed by Envirotech for BTEX, TPH and Chloride. Analytical results for all soil samples were below NMOCD recommended soil action levels. | | | |

SITE HISTORY TIMELINE CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Date/Time Period | Event/Action | Description/Comments | | | |
|--|--|---|--|--|--|
| January 7, 2010 | NMOCD Correspondence | A C-141 Release Notification and Corrective Action form was submitted to the NMOCD by ConocoPhillips. | | | |
| April 5, 2010 through April 7, 2010 | Groundwater Monitoring Well Installation and Baseline Soil Sampling | Tetra Tech supervised the installation of 4 groundwater Monitor Wells; MW-1, MW-2, MW-3 and MW-4, by Enviro-Drill Inc. of Albuquerque, NM. Each well was installed with 25 feet of screen. MW-1, MW-2 and MW-3 were all set at 30 feet below ground surface. MW-4 was set at 35 feet below ground surface. A confining layer of gray siltstone was found at depth in each of the four boring locations. Soil samples were collected from all four soil borings and analyzed for major ions, total metals, semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs) including BTEX, diesel range organics, and gasoline range organics. Analytical results for all soil samples were below NMOCD recommended soil action levels. | | | |
| April 8, 2010 | Baseline Groundwater Sampling | Tetra Tech conducted the initial groundwater sampling from Site Monitor Wells, MW-1, MW-2, MW-3 and MW-4. A baseline suite was completed including major ions, NMWQCC dissolved metals, SVOCs , VOCs including BTEX, diesel range organics, and gasoline range organics. All four Site monitor wells were below NMWQCC standards for BTEX constituents. All four wells were above the standard for dissolved manganese. MW-1, MW-2 and MW-4 were above the standard for total dissolved solids (TDS). MW-1 and MW-4 were also above the standard for sulfate. | | | |
| June 9, 2010 | Quarterly Groundwater Monitoring Event | Quarterly groundwater sampling was conducted by Tetra Tech. Samples were collected from all Site monitor wells and analyzed for BTEX, dissolved manganese, chloride, sulfate, and TDS. All four Site monitor wells were below NMWQCC standards for BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. Samples collected from MW-1, MW-2 and MW-4 were above the standard for TDS. | | | |
| September 20, 2010 | Quarterly Groundwater Monitoring Event | Quarterly groundwater sampling was conducted by Tetra Tech. Samples were collected from all Site monitor wells and analyzed for BTEX, dissolved manganese, chloride, sulfate, and TDS. All four Site monitor wells were below NMWQCC standards for BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. Samples collected from MW-1, MW-2 and MW-4 were above the standard for TDS. | | | |

SITE HISTORY TIMELINE CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Date/Time Period | Event/Action | Description/Comments |
|-------------------|--|--|
| December 16, 2010 | Quarterly Groundwater Monitoring Event | Forth quarterly groundwater sampling was conducted by Tetra Tech. Samples were collected from all Site monitor wells and analyzed for BTEX, dissolved manganese, sulfate, and TDS. All four Site monitor wells were below NMWQCC standards for BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. Samples collected from MW-1, MW-2 and MW-4 were above the standard for TDS. |
| March 16, 2011 | Quarterly Groundwater Monitoring Event | Fifth quarterly groundwater sampling was conducted by Tetra Tech. Samples were collected from all Site monitor wells and analyzed for BTEX, dissolved manganese, chloride, sulfate, and TDS. All four Site monitor wells were below NMWQCC standards for chloride, sulfate and BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. The sample collected from MW-1 was above the standard for TDS. |
| June 15, 2011 | Transfer of Consulting Responsibilities | Site consulting responsibilities were transferred from Tetra Tech of Albuquerque, NM to Conestoga-Rovers & Associates (CRA) of Albuquerque, NM. |
| June 22, 2011 | Quarterly Groundwater Monitoring Event | Sixth quarterly groundwater sampling was conducted by CRA. Samples were collected from all Site monitoring wells and analyzed for BTEX, dissolved manganese, chloride, sulfate, and TDS. All four Site monitoring wells were below NMWQCC standards for chloride, sulfate and BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. The sample collected from MW-1 was above the standard for TDS. |
| October 12, 2011 | Quarterly Groundwater Monitoring Event | Seventh quarterly groundwater sampling event was conducted by CRA. Samples were collected from all Site monitoring wells and analyzed for BTEX, dissolved manganese, and TDS. All four Site monitoring wells were below NMWQCC standards for TDS and BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. |
| December 14, 2011 | Quarterly Groundwater Monitoring Event | Eighth quarterly groundwater sampling event was conducted by CRA. Samples were collected from all Site monitoring wells and analyzed for BTEX, dissolved manganese, and TDS. All four Site monitoring wells were below NMWQCC standards for TDS and BTEX constituents. Samples collected from all four Site wells were above the standard for dissolved manganese. |

SITE HISTORY TIMELINE CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Date/Time Period | Event/Action | Description/Comments |
|--------------------|--|---|
| March 7, 2012 | Quarterly Groundwater Monitoring Event | Ninth quarterly groundwater sampling event was conducted by CRA. BTEX analysis was discontinued following the December 2011 sampling event. Samples were collected from all Site monitoring wells and analyzed for dissolved manganese and TDS. All four Site monitoring wells were below NMWQCC standards for TDS. Samples collected from all four Site wells were above the standard for dissolved manganese. |
| June 6, 2012 | Quarterly Groundwater Monitoring Event | Tenth quarterly groundwater sampling event was conducted by CRA. Samples were collected from all Site monitoring wells and analyzed for dissolved manganese and TDS. All four Site monitoring wells were below NMWQCC standards for TDS. Samples collected from all four Site wells were above the standard for dissolved manganese. |
| September 19, 2012 | Quarterly Groundwater Monitoring Event | 11th quarterly groundwater sampling event was conducted by CRA. Samples were collected from all Site monitoring wells and analyzed for dissolved manganese and TDS. All four Site monitoring wells were below NMWQCC standards for TDS. Samples collected from all four Site wells were above the standard for dissolved manganese. |
| December 12, 2012 | Quarterly Groundwater Monitoring Event | 12th quarterly groundwater sampling event was conducted by CRA. Samples were collected from all Site monitoring wells and analyzed for dissolved manganese and TDS. All four Site monitoring wells were below NMWQCC standards for TDS. Samples collected from all four Site wells were above the standard for dissolved manganese. TDS below standard for 6th consecutive quarterly event. |

Notes:

NMOCD = New Mexico Oil Conservation Division NMWQCC = New Mexico Water Quality Control Commission

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Well ID | Total Depth (feet bgs) | Top of Casing Elevation* | Screen Interval (feet bgs) | Date Measured | Depth to Groundwater (feet below TOC) | Relative Water Level* |
|---------|---------------------------|-----------------------------|-------------------------------|-------------------------|---|--------------------------|
| | | | | 4/8/2010 | 5.21 | 90.59 |
| | | | | 6/9/2010 | 1.94 | 93.86 |
| | | | | 9/20/2010 | 1.51 | 94.29 |
| | | | | 12/16/2010 | 3.31 | 92.49 |
| | | | | 3/16/2011 | 4.98 | 90.82 |
| | | | | 6/22/2011 | 2.45 | 93.35 |
| MW-1 | 30 | 95.8 | 4.5 - 29.5 | 10/12/2011 | 0(1) | 95.80 ⁽¹⁾ |
| | | | | 12/14/2011 | 2.62 | 93.18 |
| | | | | 3/7/2012 | 4.36 | 91.44 |
| | | | | 6/6/2012 | 1.11 | 94.69 |
| | | | | 9/19/2012 | 0(1) | 95.80 ⁽¹⁾ |
| | | | | 12/12/2012 | 2.56 | 93.24 |
| | | | | 4/8/2010 | 6.48 | 89.32 |
| | | | | 6/9/2010 | 3.68 | 89.32 92.12 |
| | | | | 9/20/2010 | 3.28 | 92.52 |
| | | | | 12/16/2010 | 4.83 | 90.97 |
| | 30 | 95.8 | | 3/16/2011 | 6.31 | 89.49 |
| | | | 4.5 - 29.5 | 6/22/2011 | 4.11 | 91.69 |
| MW-2 | | | | 10/12/2011 | 1.88 | 93.92 |
| | | | | 12/14/2011 | 4.25 | 91.55 |
| | | | | 3/7/2012 | 4.25 5.67 | 90.13 |
| | | | | 6/6/2012 | 3.05 | 92.75 |
| | | | | 9/19/2012 | 2.05 | 93.75 |
| | | | | 12/12/2012 | 4.31 | 91.49 |
| | | | | 4/8/2010 | 6.37 | 89.95 |
| | | | | 6/9/2010 | 3.39 | 92.93 |
| | | | | 9/20/2010 | 3.02 | 93.30 |
| | | | | 12/16/2010 | 4.65 | 91.67 |
| | | | | 3/16/2011 | 6.20 | 90.12 |
| | | | | 6/22/2011 | 3.91 | 92.41 |
| MW-3 | 30 | 96.32 | 4.5 - 29.5 | 10/12/2011 | 1.55 | 94.77 |
| | | | | 12/14/2011 | 4.04 | 92.28 |
| | | | | 3/7/2012 | 5.59 | 90.73 |
| | | | | 6/6/2012 | 2.75 | 93.57 |
| | | | | 9/19/2012 | 1.71 | 94.61 |
| | | | | 12/12/2012 | 4.09 | 92.23 |
| | | | | | 9.68 ⁽²⁾ | |
| | | | | 4/8/2010 | | 89.02 94.29 |
| | | | | 6/9/2010 | 4.41 | |
| | | | | 9/20/2010 | 3.78 5.70 | 94.92 93.00 |
| | | | | 12/16/2010 | 5.70 7.44 | 93.00 |
| | | | | 3/16/2011 | 7.44 4.81 | 91.26 |
| MW-4 | 35 | 98.7 | 9.5 - 34.5 | 6/22/2011 10/12/2011 | 2.05 | 93.89 |
| | | | | | 5.01 | 96.65 |
| | | | | 12/14/2011 | | 93.69 |
| | | | | 3/7/2012 | 6.83 3.34 | 91.87 |
| | | | | 6/6/2012 | 3.34 2.11 | 95.36 96.59 |
| | | | | 9/19/2012 12/12/2012 | 4.93 | 96.59 |
| | | | | 12/12/2012 | 4.93 | 93.// |

Notes:
TOC = Top of casing
bgs = Below ground surface
* = Elevation relative to an arbitrary reference elevation of 100 feet
(1) = Water flowing up and out of well casing.
(2) = Anomalous data point

TABLE 3 Page 1 of 2

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Well ID | Sample ID | Date | Sample Type | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (total) (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Manganese (dissolved) (mg/L) | Total dissolved solids (TDS) (mg/L) |
|----------|--------------------------|------------|-------------|-------------------|-------------------|------------------------|------------------------------|--------------------|-------------------|------------------------------------|---|
| | MW-1 | 4/8/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 143 | 879 | 3.03 | 1780 |
| | MW-1 Duplicate | 4/8/2010 | (Duplicate) | < 0.001 | 0.0011 | < 0.001 | 0.001 | | | | |
| | MW-1 | 6/9/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 26.9 | 375 | 1.08 | 1190 |
| | MW-1 Duplicate | 6/9/2010 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | | | |
| | MW-1 | 9/20/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 30.0 | 425 | 0.933 | 1020 |
| | MW-1 Duplicate | 9/20/2010 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | | | |
| | MW-1 | 12/16/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 381 | 0.896 | 1010 |
| | MW-1 Duplicate | 12/16/2010 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | | | |
| | MW-1 | 3/16/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 26.0 | 499 | 2.36 | 1200 |
| | MW-1 Duplicate | 3/16/2011 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | | | |
| MW-1 | GW-74937-062211-PG-04 | 6/22/2011 | (orig) | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0030 | 21.6 | 585 | 2.32 | 1100 |
| | GW-74937-062211-PG-05 | 6/22/2011 | (Duplicate) | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0030 | | | | |
| | GW-074937-101211-CM-009 | 10/12/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 1.04 | 939 |
| | GW-074937-101211-CM-010 | 10/12/2011 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | | |
| | GW-074937-121411-CB-MW-1 | 12/14/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 0.972 | 913 |
| | GW-074937-121411-CB-DUP | 12/14/2011 | (Duplicate) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | | |
| | GW-074937-3712-CB-MW-1 | 3/7/2012 | (orig) | - | | | | | | 0.955 | 980 |
| | GW-074937-060612-CB-MW-1 | 6/6/2012 | (orig) | 1 | | - | | | | 0.886 | 851 |
| | GW-074937-091912-JP-MW-1 | 9/19/2012 | (orig) | - | | | | | | 0.915 | 853 |
| | GW-074937-091912-JP-DUP | 9/19/2012 | (Duplicate) | | | | | | | 0.939 | |
| | GW-074937-121212-CM-MW-1 | 12/12/2012 | (orig) | | | | | | | 0.979 | 927 |
| | MW-2 | 4/8/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 27.7 | 533 | 2.48 | 1120 |
| | MW-2 | 6/9/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 19.8 | 337 | 1.66 | 1070 |
| | MW-2 | 9/20/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 20.4 | 304 | 0.822 | 1130 |
| | MW-2 | 12/16/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 281 | 1.37 | 1410 |
| | MW-2 | 3/16/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 20.1 | 280 | 1.57 | 858 |
| 2 (147.0 | GW-74937-062211-PG-02 | 6/22/2011 | (orig) | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0030 | 18.5 | 324 | 1.51 | 718 |
| MW-2 | GW-074937-101211-CM-007 | 10/12/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 1.49 | 743 |
| | GW-074937-121411-CB-MW-2 | 12/14/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 1.47 | 812 |
| | GW-074937-3712-CB-MW-2 | 3/7/2012 | (orig) | | | | | | | 1.62 | 857 |
| | GW-074937-060612-CB-MW-2 | 6/6/2012 | (orig) | | | | | | | 1.26 | 688 |
| | GW-074937-091912-JP-MW-2 | 9/19/2012 | (orig) | | | | | | | 1.39 | 736 |
| | GW-074937-121212-CM-MW-2 | 12/12/2012 | (orig) | | | | | | | 1.11 | 709 |

TABLE 3 Page 2 of 2

GROUNDWATER LABORATORY ANALYTICAL RESULTS SUMMARY CONOCOPHILLIPS COMPANY WILMUTH NO. 1 SAN JUAN COUNTY, NEW MEXICO

| Well ID | Sample ID | Date | Sample Type | Benzene (mg/L) | Toluene (mg/L) | Ethylbenzene (mg/L) | Xylenes (total) (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Manganese (dissolved) (mg/L) | Total dissolved solids (TDS) (mg/L) |
|---------|---------------------------------|------------|-------------|-------------------|-------------------|------------------------|------------------------------|--------------------|-------------------|------------------------------------|---|
| | MW-3 | 4/8/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 19.2 | 259 | 1.38 | 930 |
| | MW-3 | 6/9/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 18.5 | 241 | 1.43 | 769 |
| | MW-3 | 9/20/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 20.3 | 271 | 0.736 | 830 |
| | MW-3 | 12/16/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 265 | 1.33 | 1200 |
| | MW-3 | 3/16/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 18.1 | 263 | 1.57 | 896 |
| | GW-74937-062211-PG-01 | 6/22/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | 19.2 | 324 | 1.71 | 726 |
| MW-3 | GW-074937-101211-CM-008 | 10/12/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 1.67 | 716 |
| | GW-074937-121411-CB-MW-3 | 12/14/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 1.56 | 713 |
| | GW-074937-3712-CB-MW-3 | 3/7/2012 | (orig) | | | | | | | 1.69 | 739 |
| | GW-074937-060612-CB-MW-3 | 6/6/2012 | (orig) | | | | | | | 1.74 | 709 |
| | GW-074937-091912-JP-MW-3 | 9/19/2012 | (orig) | | | | | | | 1.60 | 723 |
| | GW-074937-121212-CM-MW-3 | 12/12/2012 | (orig) | | | | | | | 1.57 | 709 |
| | GW-074937-121212-CM-DUP | 12/12/2012 | (Duplicate) | | | | | | | | 717 |
| | MW-4 | 4/8/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 40 | 918 | 3.94 | 1900 |
| | MW-4 | 6/9/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 29.6 | 542 | 3.44 | 1380 |
| | MW-4 | 9/20/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 22.4 | 445 | 2.59 | 1160 |
| | MW-4 | 12/16/2010 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | | 464 | 2.85 | 1350 |
| | MW-4 | 3/16/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.001 | 20.6 | 385 | 2.18 | 970 |
| MW-4 | GW-74937-062211-PG-03 | 6/22/2011 | (orig) | < 0.0010 | < 0.0010 | < 0.0010 | < 0.0030 | 22.1 | 408 | 2.31 | 814 |
| 10100-4 | GW-074937-101211-CM-006 | 10/12/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | | | 2.13 | 779 |
| | GW-074937-121411-CB-MW-4 | 12/14/2011 | (orig) | < 0.001 | < 0.001 | < 0.001 | < 0.003 | - | | 1.94 | 776 |
| | GW-074937-3712-CB-MW-4 | 3/7/2012 | (orig) | | | | | | | 1.70 | 772 |
| | GW-074937-060612-CB-MW-4 | 6/6/2012 | (orig) | | | | | | | 1.46 | 662 |
| | GW-074937-091912-JP-MW-4 | 9/19/2012 | (orig) | | | | | | | 1.90 | 771 |
| | GW-074937-121212-CM-MW-4 | 12/12/2012 | (orig) | | | | | | | 1.42 | 731 |
| NMWQ | CC Groundwater Quality Standard | s | | 0.01 | 0.75 | 0.75 | 0.62 | 250 | 600 | 0.2 | 1000 |

Notes:

MW = monitoring well

NMWQCC = New Mexico Water Quality Control Commission

Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards

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

< 1.0 = Below laboratory detection limit of 1.0 mg/L

-- = not analyzed

APPENDIX A

2012 QUARTERLY GROUNDWATER SAMPLING FIELD FORMS

| ITE/PROJECT NAM | E: Wilnutu No.) JOB# | 74937 |
|---|--|---|
| SAMPLE I | D: (-W.074937.3712.CB: MW-1 WELL# | MW-I |
| PURGE DATE (MM DD YY) PURGING EQUIPMENTDE | SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION SAMPLE TIME WATER VOL. IN (GALLON PURGING AND SAMPLING EQUIPMENT SAMPLE DE COLOR OF THE COLOR OF T | S) (GALLONS) |
| FORGING EQUIPMENTDE | (CIRCLE ONE) | ING EQUIPMENTDEDICATER () N (CIRCLE ONE) |
| PURGING DEVICE SAMPLING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER | X= PURGING DEVICE OTHER (SPECIFY) X= |
| | | SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER | X= PURGING MATERIAL OTHER (SPECIFY) X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING | D - POLYPROPYLENE G - COMBINATION B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE | X= |
| SAMPLING TUBING | C - ROPE F - SILICONE X - OTHER | X= SAMPLING TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | |
| ļ | FIELD MEASUREMENTS | |
| DEPTH TO WATER WELL DEPTH TEMPERATURE O, C, S (°C) O C (°C) (°C) | | ORP VOLUME 17.7 (mV) 9.0 (gal) 12.0 (mV) (gal) (mV) (gal) (mV) (gal) (mV) (gal) (mV) (gal) |
| SAMPLE APPEARANCE: 5(1) WEATHER CONDITIONS: SPECIFIC COMMENTS: 20.8 x.16 - 3.32 I CERTIFY THAT SAMPLING P 3.7.12 DATE | | SHEEN Y/(F) PITATION Y/N/NFY TYPE) |

| ITE/PROJECT NAM | TE: William No. 1 JOB# | 074937 |
|---|--|---|
| SAMPLE | ID: GW074937-3712.CB. MW-2 WELL# 1 | MW-2 |
| PURGE DATE (MM DD YY) | SAMPLE DATE SAMPLE TIME WATER VOL. IN (MM DD YY) (24 HOUR) (GALLON | |
| PURGING EQUIPMENTD | PURGING AND SAMPLING EQUIPMENT EDICATED Y N (CIRCLE ONE) | .ING EQUIPMENTDEDICATED N (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® | X=PURGING DEVICE OTHER (SPECIFY) |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER | X= SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL SAMPLING MATERIAL | A-TEFLON D-PVC B-STAINLESS STEEL E-POLYETHYLENE C-POLYPROPYLENE X-OTHER | X= PURGING MATERIAL OTHER (SPECIFY) X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING SAMPLING TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE C - ROPE F - SILICONE X - OTHER | X= PURGE TUBING OTHER (SPECIFY) X= |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | SAMPLING TUBING OTHER (SPECIFY) |
| DEPTH TO WATER WELL DEPTH TEMPERATURE 1.75 (°C) 1.96 (°C) (°C) (°C) SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: 20.7.7.1.10 = 4 | | 95 80 (feet) 90 3 (feet) ORP VOLUME 90.5 (mV) |
| I CERTIFY THAT SAMPLING DATE | PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS PRINT SIGNATURE | |

| ' ITE/PROJECT NAM | ME: Wilmuth No.) JOB# | # 074937 |
|---|--|---|
| SAMPLE | EID: GW.079957.CB.MW-3 WELL# | # MW-3 |
| PURGE DATE (MM DD YY) | (MM DD YY) (24 HOUR) | R VOL. IN CASING ACTUAL VOL. PURGED (GALLONS) (GALLONS) |
| PURGING EQUIPMENTD | PURGING AND SAMPLING EQUIPMENT DEDICATED (C) N | SAMPLING EQUIPMENTDEDICATED N |
| | (CIRCLE ONE) | (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® | X=PURGING DEVICE OTHER (SPECIFY) |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER | X= |
| PURGING MATERIAL | A - TEFLON D - PVC B - STAINLESS STEEL E - POLYETHYLENE | X= |
| SAMPLING MATERIAL | C-POLYPROPYLENE X-OTHER | X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING | A - TEFLON B - TYGON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROI | X= |
| SAMPLING TUBING | C - ROPE F - SILICONE X - OTHER | PURGE TUBING OTHER (SPECIFY) X= SAMPLING TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | SUMILPING TODING OTTER (N. POT V.) |
| | FIELD MEASUREMENTS | |
| DEPTH TO WATER | ER 5-59 (feet) WELL ELEVATION | 96 37 (feet) |
| WELL DEPTH | TH 32.26 (feet) GROUNDWATER ELEVATION | 90 73 (feet) |
| TEMPERATURE | pH TDS CONDUCTIVITY | ORP VOLUME |
| 117.14 (°C) | | $\frac{\text{(mV)}}{\text{(mV)}} = \frac{911}{3} \frac{\text{(mV)}}{29} \frac{13.29 \text{(gal)}}{500}$ |
| 12.30 (c) | 1 00 100 | (S/cm) (MV) (MV) (MV) (MS/cm) (MV) (MS/cm) (MV) (MS/cm) |
| (°C) | | S/cm) (mV) (gal) |
| (°C) | | S/cm) (mV) (gal) |
| | FIELD COMMENTS | |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: $26.679.16 = 4.2$ | ODOR: MINU COLOR: 11. | PRECIPITATION Y/N (IF Y TYPE) |
| | | |
| | | |
| | Α | |
| I CERTIFY THAT SAMPLING I | G PROCEDURES WERE,IN ACCORDANCE WITH APPLICABLE CRAPROTOCOPS | In |
| DATE . | DRINET CLONING | VO |



| ATE/PROJECT NAM | E: 10 Junth No. 1 JOB# ()74937 | | | |
|---|---|--|--|--|
| SAMPLE I | D: (JW.074937.3712.CB.MW-4 WELL# MW-4 | | | |
| 3.7.12 PURGE DATE (MM DD YY) | SAMPLE DATE SAMPLE TIME WATER VOL. IN CASING ACTUAL VOL. PURGED (MM DD YY) (24 HOUR) (GALLONS) (GALLONS) | | | |
| PURGING EQUIPMENTDE | PURGING AND SAMPLING EQUIPMENT DICATED (Y) N SAMPLING EQUIPMENTDEDICATED (Y) N (CIRCLE ONE) | | | |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) | | | |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X - OTHER SAMPLING DEVICE OTHER (SPECIFY) | | | |
| PURGING MATERIAL | A - TEFLON D - PVC X= B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) | | | |
| SAMPLING MATERIAL | C - POLYPROPYLENE X - OTHER X= SAMPLING MATERIAL OTHER (SPECIFY) | | | |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) | | | |
| SAMPLING TUBING | C - ROPE F - SILICONE X - OTHER X= SAMPLING TUBING OTHER (SPECIFY) | | | |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | | | |
|] | FIELD MEASUREMENTS | | | |
| DEPTH TO WATER | (feet) WELL ELEVATION 98 7 (feet) | | | |
| WELL DEPTH TEMPERATURE | ph TDS CONDUCTIVITY ORP VOLUME | | | |
| 150 (°C) | pH TDS CONDUCTIVITY ORP VOLUME $[\mu \text{S/cm}]$ (std) $[\mu \text{S/cm}]$ (mV) $[\mu \text{S/cm}]$ (mV) $[\mu \text{S/cm}]$ | | | |
| (0) | -14 (std) 0.63 (g/L) 780 (µS/cm) 16.0 (mV) 12.25 (gal) | | | |
| 12,24(0) | 715 (std) 0.672 (g/L) 78 (µS/cm) 99.4 (mV) 12.5 (gal) | | | |
| (°C) | (std) (g/L) (μS/cm) (mV) (gal) | | | |
| (°C) | (std) (g/L) (μS/cm) (mV) (gal) | | | |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: 75,47x.16 = 9.07 = 10.23 | | | | |
| 2 . 17.10 | - think | | | |
| | · | | | |
| | | | | |
| I CERTIFY THAT SAMPLING PI 3 · 7 · 12 DATE | ROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRAPROTOCOLO PRINT SIGNATURE SIGNATURE | | | |

WELL SAMPLING FIELD INFORMATION FORM **JOB#** TE/PROJECT NAME: CB MW-WELL# SAMPLE ID: WELL PURGING INFORMATION ACTUAL VOL. PURGED SAMPLE DATE SAMPLE TIME WATER VOL. IN CASING URGE DATE (GALLONS) (GALLONS) (24 HOUR) (MM DD YY) (MM DD YY) PURGING AND SAMPLING EQUIPMENT SAMPLING EQUIPMENT......DEDICATED PURGING EQUIPMENT.....DEDICATED (CIRCLE ONE) (CIRCLE ONE) A - SUBMERSIBLE PUMP G - BAILER PURGING DEVICE D - GAS LIFT PUMP PURGING DEVICE OTHER (SPECIFY) B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® SAMPLING DEVICE C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER SAMPLING DEVICE OTHER (SPECIFY) D - PVC A - TEFLON PURGING MATERIAL PURGING MATERIAL OTHER (SPECIFY) B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER SAMPLING MATERIAL SAMPLING MATERIAL OTHER (SPECIFY) G - COMBINATION A - TEFLON D - POLYPROPYLENE PURGE TUBING TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) B - TYGON E - POLYETHYLENE X - OTHER SAMPLING TUBING C - ROPE F-SILICONE SAMPLING TUBING OTHER (SPECIFY) FILTERING DEVICES 0.45 A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM FIELD MEASUREMENTS (feet) WELL ELEVATION DEPTH TO WATER (feet) 25 20 (feet) GROUNDWATER ELEVATION (feet) WELL DEPTH CONDUCTIVITY ORP **YOLUME** TEMPERATURE TDS pН 0.722 82 8.3 (g/L) (µS/cm) (mV) (gal) (std) (µS/cm) (mV) (gal) (std) 855 (mV) (gal) (µS/cm) (std) (gal) (g/L) (µS/cm) (mV) (std) (µS/cm) (mV) (gal) (g/L) (°C) FIELD COMMENTS COLOR: SHEEN Y/N SAMPLE APPEARANCE: WINDY Y/N PRECIPITATION Y/N (IF Y TYPE) WEATHER CONDITIONS: SPECIFIC COMMENTS: LCERTIFY THAT SAMPLING PROCEDONES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOL

| .TE/PROJECT NAM | 1E: [William N) . [JOB# 074957 |
|---|--|
| SAMPLE | ID: GW. OMBTONO 2 MW- 2 WELL# MW-7 |
| PURGEDATE (MM DD YY) | WELL PURGING INFORMATION SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION GALLONS WELL PURGING INFORMATION GALLONS GALLONS GALLONS |
| PURGING EQUIPMENTDI | PURGING AND SAMPLING EQUIPMENT SAMPLING EQUIPMENTDEDICATED Y N (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= |
| SAMPLING DEVICE | B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X = SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL | A-TEFLON D-PVC X= |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION X= |
| SAMPLING TUBING | B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X = SAMPLING TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM |
| | FIELD MEASUREMENTS |
| DEPTH TO WATER | 74 00 |
| WELL DEPTH | |
| TEMPERATURE (°C) | PH TDS CONDUCTIVITY ORP VOLUME 7.77 (std) 0.616 (g/L) 745 (μ S/cm) 48.8 (μ V) 15.0 (ga |
| 13.76 (0) | District Control of the Control of t |
| 12011 | 1777 A 1 16 (17) |
| , | |
| (°C) | [(std) |
| (°C) | (std) (g/L) (μS/cm) (mV) (gal |
| | FIELD COMMENTS |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: | Cloudy ODOR: ODOR: COLOR: SHEEN Y PRECIPITATION Y/OFFY TYPE) |
| SPECIFIC COMMENTS: | TRUE LANGE (1 TO THE TITLE) |
| 28,9x.14= | 4.624x3-(3.81) |
| | |
| | |
| I CERTIFY THAT SAMPLING P | PROCEEDIRES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS, OFFICIAL STREET |

| TE/PROJECT NAM | ME: Com Willy to NO. 1 JOB# O | 74937 |
|---|--|--|
| SAMPLE | ID: GW. 074BT. adol2. CB. MW-3 WELL# MU | V-3 |
| PURGE DATE (MM DD YY) | WELL PURGING INFORMATION SAMPLE DATE SAMPLE TIME WATER VOL. IN C (MM DD YY) (24 HOUR) (GALLONS) | |
| PURGING EQUIPMENTI | PURGING AND SAMPLING EQUIPMENT DEDICATED Y N (CIRCLE ONE) | NG EQUIPMENTDEDICATE Y N (CIRCLEONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® | X= PURGING DEVICE OTHER (SPECIFY) |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER | X= SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL | A-TEFLON D-PVC | X= |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER | PURGING MATERIAL OTHER (SPECIFY) X= |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION | SAMPLING MATERIAL OTHER (SPECIFY) X= |
| SAMPLING TUBING | B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE C - ROPE F - SILICONE X - OTHER | PURGE TUBING OTHER (SPECIFY) X= |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | SAMPLING TUBING OTHER (SPECIFY) |
| | FIELD MEASUREMENTS | |
| DEPTH TO WATE | r 2 15 (feet) WELL ELEVATION | 96 3Z (feet) |
| WELL DEPT | H 32 22 (feet) GROUNDWATER ELEVATION | 93 57 (feet) |
| TEMPERATURE | pH TDS CONDUCTIVITY | ORP VOLUME |
| 13 46 100 | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ |
| 17,65 (c) | 1 0 (6) 1) (6) 1) (6) 1) | $\frac{914}{100} \text{ (mV)} \qquad \frac{13}{100} \text{ (gal)}$ |
| 12184 (°C) | (uS/cm) | |
| (°C) | (g/L) (μS/cm) | (mV) (gal) |
| (°C) | (std) (g/L) (μS/cm) | (mV) (gal) |
| | FIELD COMMENTS | a. f. |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: | | SHEEN Y/N IATION Y/N (IF Y TYPE) |
| SPECIFIC COMMENTS: | THE INTERNATIONAL TRACEING | TATION T/A(IFTTTE) |
| 29, 474.16 = 7 | 711/3-(19.19) | |
| | | |
| | | |
| | | |
| I CERTIFY THAT SAMPLING | PROCEDURE SWEERE BY ACCORDANCE WITH APPLICABLE CRAPROTOCOLS (ASSOCIATION) | |
| DATE | PRINT SIGNATURE | |

WELL SAMPLING FIELD INFORMATION FORM JOB# .TE/PROJECT NAME: SAMPLE ID: WELL PURGING INFORMATION 030 SAMPLE TIME SAMPLE DATE WATER VOL. IN CASING ACTUAL VOL. PURGED (MM DD YY) (MM DD YY) (24 HOUR) (GALLONS) PURGING AND SAMPLING EQUIPMENT PURGING EQUIPMENT.....DEDICATED SAMPLING EQUIPMENT.....DEDICATED (CIRCLE ONE) PURGING DEVICE A - SUBMERSIBLE PUMP G - BAILER D - GAS LIFT PUMP B - PERISTALTIC PUMP E - PURGE PUMP H-WATERRA® PURGING DEVICE OTHER (SPECIFY) SAMPLING DEVICE C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER SAMPLING DEVICE OTHER (SPECIFY) PURGING MATERIAL A - TEFLON D - PVC B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) SAMPLING MATERIAL C - POLYPROPYLENE X - OTHER SAMPLING MATERIAL OTHER (SPECIFY) PURGE TUBING A - TEFLON D - POLYPROPYLENE G - COMBINATION TEFLON/POLYPROPYLENE B - TYGON E - POLYETHYLENE PURGE TUBING OTHER (SPECIFY) SAMPLING TUBING C - ROPE X - OTHER F - SILICONE SAMPLING TUBING OTHER (SPECIFY) FILTERING DEVICES 0,45 A - IN-LINE DISPOSABLE B - PRESSURE C-VACUUM FIELD MEASUREMENTS DEPTH TO WATER (feet) WELL ELEVATION (feet) 2 30 WELL DEPTH (feet) GROUNDWATER ELEVATION (feet) TEMPERATURE TDS CONDUCTIVITY pН ORP **VOLUME** 0.623 (g/L) (std) (µS/cm) (mV) (µS/cm) (mV) (std) (µS/cm) (mV) (°C) (std) (g/L) (µS/cm) (mV) (gal) (°C) (std) (g/L) (µS/cm) (mV) (gal) FIELD COMMENTS SAMPLE APPEARANCE: COLOR: WEATHER CONDITIONS: RO° TEMPERATURE WINDY Y/N PRECIPITATION YANDIF Y TYPE) WERE IN ACCORDANCE WITH APPLICABLE CRA

| TE/PROJECT NAM | IE: Wilmuth No. 1 JOB# 074937 | | | |
|--|--|--|--|--|
| SAMPLE | ID: GW074937-091912=JP-MW. WELL# MW- | | | |
| PURGE DATE (MM DD YY) | WELL PURGING INFORMATION 9.19.12 SAMPLE DATE SAMPLE TIME WATER VOL. IN CASING (GALLONS) WELL PURGING INFORMATION (MM DD YY) PURGING AND SAMPLING EQUIPMENT | | | |
| PURGING AND SAMPLING EQUIPMENT PURGING EQUIPMENTDEDICATED N SAMPLING EQUIPMENTDEDICATED (CIRCLE ONE) (CIRCLE ONE) | | | | |
| PURGING DEVICE | B - PERISTALTIC PUMP C - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERA® PURGING DEVICE OTHER (SPECIFY) | | | |
| SAMPLING DEVICE | C-BLADDER PUMP F-DIPPER BOTTLE X-OTHER X= SAMPLING DEVICE OTHER (SPECIFY) | | | |
| PURGING MATERIAL SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER X= | | | |
| PURGE TUBING SAMPLING TUBING | SAMPLING MATERIAL OTHER (SPECIFY) A - TEFLON B - TYGON E - POLYPROPYLENE TEFLON/POLYPROPYLENE TEFLON/POLYPROPYLENE TEFLON/POLYPROPYLENE TEFLON/POLYPROPYLENE TEFLON/POLYPROPYLENE TEFLON/POLYPROPYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) X = | | | |
| FILTERING DEVICES 0.45 | SAMPLING TUBING OTHER (SPECIFY) A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | | | |
| | FIELD MEASUREMENTS | | | |
| DEPTH TO WATER WELL DEPTH TEMPERATURE 17.55 (°C) 17.07 (°C) (°C) (°C) | | | | |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: O((x3=14,40) | TEMPERATURE TO DOR: Aby & COLOR: 184 Loon SHEEN Y/16 WINDY Y TYPE) WALL - COLOR: 184 Loon SHEEN Y/16 PRECIPITATION Y/1878 Y TYPE) | | | |
| Dep @ 11/35 | | | | |
| I CERTIFY THAT SAMPLING P DATE A. R. | PRINT SIGNATURE | | | |
| | · | | | |

| TE/PROJECT NAM | TE: AASEMP Wilmuth No. 1 JOB# | 074937 | | |
|---|--|---|--|--|
| SAMPLE | D: GW-674937-091912-JP-MW-Z WELL# | MW-2 | | |
| PURGE DATE (MM DD YY) | WELL PURGING INFORMATION O 19 Z012 | | | |
| PURGING EQUIPMENTDI | EDICATED(Y) N SAMPLI (CIRCLE ONE) | NG EQUIPMENTDEDICATED (*) N (CIRCLE ONE) | | |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® | X= PURGING DEVICE OTHER (SPECIFY) | | |
| SAMPLING DEVICE | C-BLADDER PUMP F-DIPPER BOTTLE X-OTHER | X= SAMPLING DEVICE OTHER (SPECIFY) | | |
| PURGING MATERIAL | E A-TEFLON D-PVC | X= | | |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER | PURGING MATERIAL OTHER (SPECIFY) X= | | |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION | X= | | |
| SAMPLING TUBING | B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE C - ROPE F - SILICONE X - OTHER | PURGE TUBING OTHER (SPECIFY) X= | | |
| FILTERING DEVICES 0,45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | SAMPLING TUBING OTHER (SPECIFY) | | |
| 1 | FIELD MEASUREMENTS | | | |
| DEPTH TO WATER | | 95 8 (feet) | | |
| WELL DEPTH | ` ' | 43 75 (feet) | | |
| TEMPERATURE (°C) | pH TDS CONDUCTIVITY 7.17 (std) 6.71 ° (g/L) 895 (μS/cm) | ORP VOLUME \$7.5 (mV) 13.6 (gal) | | |
| 15,45 (°C) | 7.17 (std) 6,7/6 (g/L) 893 (µS/cm) | \$8.8 (mV) [3.5 (gal) | | |
| 15,32 (°C) | 7.09 (std) 6.709 (g/L) 667 (µS/cm) | 57.0 (mV) 14.0 (gal) | | |
| (°C) | (std) (g/L) (μS/cm) | (mV) (gal) | | |
| (°C) | (std) (g/L) (µS/cm) | (mV) [gal) | | |
| SAMPLE APPEARANCE: Cloudy odor: Now color: Leoun sheen y/m WEATHER CONDITIONS: TEMPERATURE ABO WINDY Y PRECIPITATION Y/MFY TYPE) SPECIFIC COMMENTS: Vel X3= 13.42 | | | | |
| | | | | |
| I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRAPROTOCOLS OF THE PRINT SIGNATURE | | | | |

WELL SAMPLING FIELD INFORMATION FORM

| TE/PROJECT NAM | TE: WILMUTH NO. 1 JOB# | 074937 |
|---|--|---|
| SAMPLE | ID: GW-074937-091912-SP-MW-3 WELL# | MW-3 |
| 9.19.12 PURGE DATE (MM DD YY) | SAMPLE DATE SAMPLE TIME WATER VOL. IN (MM DD YY) (24 HOUR) (GALLON PURGING AND SAMPLING EQUIPMENT | |
| PURGING EQUIPMENTD | EDICATED (N SAMPLE (CIRCLE ONE) | ING EQUIPMENTDEDICATED (Y) N (CIRCLE ONE) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® | X= PURGING DEVICE OTHER (SPECIFY) |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER | X= SAMPLING DEVICE OTHER (SPECIFY) |
| PURGING MATERIAL | A - TEFLON D - PVC B - STAINLESS STEEL E - POLYETHYLENE | X= PURGING MATERIAL OTHER (SPECIFY) |
| SAMPLING MATERIAL | C-POLYPROPYLENE X-OTHER | X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE | X= PURGE TUBING OTHER (SPECIFY) |
| SAMPLING TUBING | C - ROPE F - SILICONE X - OTHER | X= SAMPLING TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | |
| | FIELD MEASUREMENTS | 01 25 |
| DEPTH TO WATE | 1 | 96 32 (feet) 94 61 (feet) |
| TEMPERATURE | H GROUNDWATER ELEVATION PH TDS CONDUCTIVITY | ORP VOLUME |
| 15,22 (0) | (µS/cm) | (mV) 13.75 (gal) |
| 14-89 (°C) | (0.70) (std) (0.704) (g/L) (0.740) (µS/cm) | (mV) [4.00](gal) |
| [4,93](0) | | 74,2 (mV) 14,25 (gal) |
| (°C) | (std) (g/L) (μS/cm) | (mV) (gal) |
| (°C) | (std) (g/L) (μS/cm) | (mV) (gal) |
| | FIELD COMMENTS | |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: | Cloude ODOR: None COLOR: Wight brewn TEMPERATURE COO WINDYY/AT PRECIS | SHEEN Y/ 107- PITATION Y/ 107 IF Y TYPE) |
| SPECIFIC COMMENTS: | | |
| Volx3= 13.58 | | |
| | | |
| I CANADATA A CANADATA | THE COURT AND CO | |
| 1 CERTIFY THAT SAMPLING | PROCEDURES WELL IN ACCORDANCE WITH APPLICABLE CRAPROTOSOLS | |
| DATE | PRINT SIGNATURE | |

WELL SAMPLING FIELD INFORMATION FORM

| .TE/PROJECT NAMI | E: Wilmuth Nor JOB# | 074937 |
|--|---|--|
| SAMPLE II | D: G6.074937-091912-58-196-4 WELL# | MW-4 |
| PURGE DATE (MM DD YY) | SAMPLE DATE SAMPLE TIME WATER VOL. IN CO. (MM DD YY) PURGING AND SAMPLING EQUIPMENT |) (GALLONS) |
| PURGING EQUIPMENTDEI | (CIRCLE ONE) | NG EQUIPMENTDEDICATED (**) N (CIRCLE ONE) |
| PURGING DEVICE SAMPLING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER | X= PURGING DEVICE OTHER (SPECIFY) X= |
| PURGING MATERIAL | A-TEFLON D-PVC | SAMPLING DEVICE OTHER (SPECIFY) X= |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE C - POLYPROPYLENE X - OTHER | PURGING MATERIAL OTHER (SPECIFY) X= SAMPLING MATERIAL OTHER (SPECIFY) |
| PURGE TUBING SAMPLING TUBING | C A - TEFLON D - POLYPROPYLENE G - COMBINATION B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE C C - ROPE F - SILICONE X - OTHER | X= PURGE TUBING OTHER (SPECIFY) |
| FILTERING DEVICES 0.45 | C - ROPE F - SILICONE X - OTHER A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM | X=SAMPLING TUBING OTHER (SPECIFY) |
| | FIELD MEASUREMENTS | |
| DEPTH TO WATER WELL DEPTH TEMPERATURE [5, 67 (°C) [| (feet) WELL ELEVATION 35 | 98 7 (feet) 96 59 (feet) ORP VOLUME 48.3 (mV) (G. 25 (gal) 50.8 (mV) (6.5 (gal) |
| (c) [| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 53.7 (mV) (Co. 75 (gal) (mV) (gal) |
| (°C) | (std) (g/L) (µS/cm) | (mV) (gal) |
| SAMPLE APPEARANCE: Slight WEATHER CONDITIONS: SPECIFIC COMMENTS: V6 X 3 = 15.79 | | SHEEN Y (N) TATION Y/ (N) IF Y TYPE) |
| I CERTIFY THAT SAMPLING PR 9 - 19-12 DATE | OCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRAPROTOCOLS OCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRAPROTOCOLS SINATURE | |

| · V | WELL SAMPLING FIELD INFORMATION FORM | |
|---|--|--------------|
| SITE/PROJECT NAME: SAMPLE ID: | Wilmuth No. 1 JOB# 074937 GW-074937-121212-M-MW-1 WELL# MW-1 | |
| PURGE DATE (MM DD YY) | WELL PURGING INFORMATION SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION WATER VOL. IN CASING (GALLONS) ACTUAL VOL. PURGED (GALLONS) | |
| PURGING EQUIPMENTDEDIC | PURGING AND SAMPLING EQUIPMENT SAMPLING EQUIPMENTDEDICATED (Y) N | |
| | (CIRCLE ONE) | |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) | |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= SAMPLING DEVICE OTHER (SPECIFY) | |
| PURGING MATERIAL | A-TEFLON D-PVC X= B-STAINLESS STEEL E-POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) | |
| SAMPLING MATERIAL | C-POLYPROPYLENE X-OTHER X= | |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) | |
| SAMPLING TUBING | C - ROPE F - SILICONE X - OTHER X= | |
| FILTERING DEVICES 0.45 | SAMPLING TUBING OTHER (SPECIFY) A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM 3 45 MICHON TO MOTOLIS ONLY | 7 |
| | FIELD MEASUREMENTS | |
| DEPTH TO WATER WELL DEPTH | (feet) WELL ELEVATION 95 80 (feet) 25 13 (feet) GROUNDWATER ELEVATION 93 74 (feet) | Δ. |
| temperature 1432 (°0) | PH TDS CONDUCTIVITY ORP VOLUME | DO'Z 5.04 |
| 14.31 (0) | 7,17 (std) 0,995 (g/L) 1108 (µS/cm) 29,2 (mV) 11,25 (gal) | 4.82 |
| 19.32 (°C) | | 4.00 |
| (°C) | (std)(g/L)(μS/cm)(mV)(gal) | |
| (°C) | (std)(g/L)(μS/cm)(mV)(gal) | |
| SAMPLE APPEARANCE: | FIELD COMMENTS ODOR: COLOR: SHEEN Y/N | |
| WEATHER CONDITIONS: TEM SPECIFIC COMMENTS: | PRECIPITATION Y/N (IF Y TYPE) | |
| | | |
| 361×3=1 | 0.83 | - |
| : | | |
| I CERTIFY THAT SAMPLING PROCE | EDIRES VERB IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLOUR WITH | |
| DAIL (| PRINT SIGNATURE\ | |

SIGNATURE\

| | | 377 | |
|---|--|--------------|----------------------|
| . 94 | WELL SAMPLING FIELD INFORMATION FORM | | i ^K |
| SITE/PROJECT NAM SAMPLE | (2) 8:2100 - 1010 - 1010 - 1010 | | |
| ZIZIZ PURGE DATE (MM DD YY) | SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION 138 13.5 SAMPLE TIME WATER VOL. IN CASING (GALLONS) WELL PURGING INFORMATION (GALLONS) WELL PURGING INFORMATION (GALLONS) | | |
| PURGING EQUIPMENT | PURGING AND SAMPLING EQUIPMENT SEDICATED Y N (CIRCLE ONE) | | l |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= | | |
| PURGING MATERIAL | SAMPLING DEVICE OTHER (SPECIFY) A - TEFLON B - STAINLESS STEEL E - POLYETHYLENE SAMPLING DEVICE OTHER (SPECIFY) Y= PURGING MATERIAL OTHER (SPECIFY) | | |
| SAMPLING MATERIAL | C - POLYPROPYLENE X - OTHER X= SAMPLING MATERIAL OTHER (SPECIFY) | | |
| PURGE TUBING | A - TEFLON D - POLYPROPYLENE G - COMBINATION X= B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) | | |
| SAMPLING TUBING | C - ROPE F - SILICONE X - OTHER X= SAMPLING TUBING OTHER (SPECIFY). | | |
| FILTERING DEVICES 0.45 | Ha-in-line disposable B-pressure c-vacuum, Homicum to metals only | <u>/ </u> | |
| DEPTH TO WATE | 71 71 | | DO MY |
| TEMPERATURE [| 7.22 (std) 0.736 (g/L) 805 (µS/cm) -0.3 (mV) 13.0 (g | gal) gal) | 4,00 3,76 3,54 |
| (°C) | [(std) | gal) gal) | |
| SAMPLE APPEARANCE; WEATHER CONDITIONS: SPECIFIC COMMENTS: | TEMPERATURE FIELD COMMENTS WINDYY/N COLOR: WOLLD SHEEN Y/N 10 PRECIPITATION Y/N (IF Y TYPE) 10 | | |
| 4,38 × 3= | 13.15 | | |
| I CERTIFY THAT SAMULING DATE | PROCEDURES VERE IN ACCORDANGE WITH APPLICABLE CRA PROPECCULS PRINTED SIGNATURE SIGNATURE | | |

| | WELL SAMPLING FIELD INFORMATION FORM | |
|--|--|-------------------------------|
| SITE/PROJECT NAM | IE: Wilmuth No. 1 JOB# 074937 | |
| SAMPLE | ID: GW-074937-121212-(M-MW-3 WELL# MW-3 | |
| LZIZIZ PURGE DATE (MM DD YY) | SAMPLE DATE (MM DD YY) WELL PURGING INFORMATION SAMPLE TIME WATER VOL. IN CASING ACTUAL VOL. PURGED (GALLONS) (GALLONS) | |
| PURGING EQUIPMENTDI | PURGING AND SAMPLING EQUIPMENT SAMPLING EQUIPMENTDEDICATED Y N (CIRCLE ONE) | |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) | |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= | |
| PURGING MATERIAL | SAMPLING DEVICE OTHER (SPECIFY) A - TEFLON D - PVC X= | |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY) C - POLYPROPYLENE X - OTHER A DIVINION ASSESSMENT OF THE PROPERTY OF T | |
| PURGE TUBING | SAMPLING MATERIAL OTHER (SPECIFY) A - TEFLON D - POLYPROPYLENE G - COMBINATION X= | |
| SAMPLING TUBING | B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X= | |
| FILTERING DEVICES 0.45 | SAMPLING TUBING OTHER (SPECIFY) A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM TO MICHAEL TUBING OTHER (SPECIFY) | |
| | FIELD MEASUREMENTS | : |
| DEPTH TO WATER WELL DEPTH | 7.7 (2) | • |
| TEMPERATURE 12,94 (°C) 13,33 (°C) (°C) | TDS CONDUCTIVITY ORP VOLUME | Do™g/ 3:90 3:10 5:82 |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: DUD N.C. | FIELD COMMENTS ONL COLOR: BYOUN SHEEN Y/N NO TEMPERATURE 50 WINDY Y/N O PRECIPITATION Y/N (IF Y TYPE) NO COLOR: BYOUN SHEEN Y/N NO PRECIPITATION Y/N (IF Y TYPE) NO | : |
| 4,47 × 3 = | 13.41 | 100 |
| | | |
| I CERTIFY THAT SAMPLING P | ROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRAPROTOCOLE PRINT SIGNAFURE SIGNAFURE | |

| | WELL SAMPLING FIELD INFORMATION FORM | |
|---|--|--------------------------|
| SITE/PROJECT NAM | ME: Wilmuth Noil JOB# ()74937 | |
| SAMPLE | EID: GW-074937-121212-CM-MW-4WELL# MW-4 | _ |
| LZ1Z1Z PURGE DATE (MM DD YY) | SAMPLE DATE SAMPLE TIME WATER VOL. IN CASING (GALLONS) WELL PURGING INFORMATION 4.26 ACTUAL VOL. PURGED (GALLONS) | |
| | PURGING AND SAMPLING EQUIPMENT | |
| PURGING EQUIPMENT | DEDICATED (Y) N SAMPLING EQUIPMENTDEDICATEI (Y) (CIRCLE ONE) | N E) |
| PURGING DEVICE | A - SUBMERSIBLE PUMP D - GAS LIFT PUMP G - BAILER X= B - PERISTALTIC PUMP E - PURGE PUMP H - WATERRA® PURGING DEVICE OTHER (SPECIFY) | _ |
| SAMPLING DEVICE | C - BLADDER PUMP F - DIPPER BOTTLE X - OTHER X= | _ |
| PURGING MATERIAL | SAMPLING DEVICE OTHER (SPECIFY) A-TEFLON D-PVC X= | |
| SAMPLING MATERIAL | B - STAINLESS STEEL E - POLYETHYLENE PURGING MATERIAL OTHER (SPECIFY X - OTHER X= | 0 |
| PURGE TUBING | SAMPLING MATERIAL OTHER (SPECIF A - TEFLON D - POLYPROPYLENE G - COMBINATION X= | ₹ Y) |
| SAMPLING TUBING | B - TYGON E - POLYETHYLENE TEFLON/POLYPROPYLENE PURGE TUBING OTHER (SPECIFY) C - ROPE F - SILICONE X - OTHER X= | _ |
| FILTERING DEVICES 0.45 | A-IN-LINE DISPOSABLE B-PRESSURE C-VACUUM 45 NCM TO WE TOUS ON | My |
| | FIELD MEASUREMENTS | |
| DEPTH TO WATE WELL DEPT. | | |
| TEMPERATURE | PH TDS CONDUCTIVITY ORP VOLUME | Dom |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | _(gal) 3,45 |
| 17,51 (°C) | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | (gal) 3.01 (gal) 2.54 |
| 12.55 (0) | 7.18 (std) 0,752 (g/L) 884 (µS/cm) 1,1 (mV) 13.75 | 7 (gal) 240 |
| (°C) | (std) (g/L) (μS/cm) (mV) | (gal) |
| SAMPLE APPEARANCE: WEATHER CONDITIONS: SPECIFIC COMMENTS: | TEMPERATURE () SITUATION Y/N (IF Y TYPE) NO PRECIPITATION Y/N (IF Y TYPE) NO | - - |
| 4.36×3= | 13.10 | - - - |
| I CERTIFY THAT SAMPLING | F PROCEDURYS WERE IN ACCORDANCE WITH APPLICABLE CRAPROTICO STANDED TO THE PROTICO STANDED T | - |

APPENDIX B

2012 QUARTERLY GROUNDWATER LABORATORY ANALYTICAL REPORTS





March 23, 2012

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

RE: Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2012. 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 Tracy

alice.tracy@pacelabs.com Project Manager

Enclosures

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





(913)599-5665



CERTIFICATIONS

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 A2LA Certification #: 2456.01 Arkansas Certification #: 05-008-0 Illinois Certification #: 001191 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-08-TX Utah Certification #: 9135995665



Lenexa, KS 66219 (913)599-5665



SAMPLE SUMMARY

Project: WILMUTH NO 1 (074937)

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------------------|--------|----------------|----------------|
| 60117005001 | GW-074937-3712-CB-MW-1 | Water | 03/07/12 16:20 | 03/10/12 09:00 |
| 60117005002 | GW-074937-3712-CB-MW-2 | Water | 03/07/12 15:35 | 03/10/12 09:00 |
| 60117005003 | GW-074937-3712-CB-MW-3 | Water | 03/07/12 15:45 | 03/10/12 09:00 |
| 60117005004 | GW-074937-3712-CB-MW-4 | Water | 03/07/12 16:30 | 03/10/12 09:00 |





SAMPLE ANALYTE COUNT

Project: WILMUTH NO 1 (074937)

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--|----------|----------|----------------------|
| 60117005001 | 60117005001 GW-074937-3712-CB-MW-1 60117005002 GW-074937-3712-CB-MW-2 60117005003 GW-074937-3712-CB-MW-3 | EPA 6010 | JGP | 1 |
| | | SM 2540C | CMG | 1 |
| 60117005002 | GW-074937-3712-CB-MW-2 | EPA 6010 | JGP | 1 |
| | | SM 2540C | CMG | 1 |
| 60117005003 | GW-074937-3712-CB-MW-3 | EPA 6010 | JGP | 1 |
| | | SM 2540C | CMG | 1 |
| 60117005004 | GW-074937-3712-CB-MW-4 | EPA 6010 | JGP | 1 |
| | | SM 2540C | CMG | 1 |





PROJECT NARRATIVE

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: March 23, 2012

General Information:

4 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





PROJECT NARRATIVE

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: March 23, 2012

General Information:

4 samples were analyzed for SM 2540C. 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.

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.

Duplicate Sample:

All duplicate sample results were within method 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: WILMUTH NO 1 (074937)

| Sample: GW-074937-3712-CB-M | W-1 Lab ID | 60117005001 | Collecte | d: 03/07/12 | 2 16:20 | Received: 03/ | 10/12 09:00 Ma | atrix: Water | • |
|------------------------------|-------------|------------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | - Analytica | al Method: EPA 6 | | ration Meth | od: EPA | A 3010 | | | |
| Manganese, Dissolved | 955 | ug/L | 5.0 | 0.90 | 1 | 03/14/12 16:35 | 03/20/12 11:54 | 7439-96-5 | |
| 2540C Total Dissolved Solids | Analytica | al Method: SM 25 | 540C | | | | | | |
| Total Dissolved Solids | 980 | mg/L | 5.0 | 5.0 | 1 | | 03/14/12 10:29 | | |





Project: WILMUTH NO 1 (074937)

| Sample: GW-074937-3712-CB-M\ | N-2 Lab ID | 60117005002 | Collected | d: 03/07/12 | 15:35 | Received: 03/ | 10/12 09:00 Ma | atrix: Water | • |
|------------------------------|------------|------------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytica | al Method: EPA 6 | 010 Prepa | ration Meth | od: EPA | A 3010 | | - | |
| Manganese, Dissolved | 1620 | ug/L | 5.0 | 0.90 | 1 | 03/14/12 16:35 | 03/20/12 12:08 | 7439-96-5 | |
| 2540C Total Dissolved Solids | Analytica | al Method: SM 25 | 540C | | | | | | |
| Total Dissolved Solids | 857 | mg/L | 5.0 | 5.0 | 1 | | 03/14/12 10:29 | | |





Project: WILMUTH NO 1 (074937)

| Sample: GW-074937-3712-CB-M | W-3 Lab ID | 60117005003 | Collecte | d: 03/07/12 | 2 15:45 | Received: 03/ | 10/12 09:00 Ma | atrix: Water | |
|------------------------------|------------|------------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | Analytica | al Method: EPA 6 | | ration Meth | od: EPA | A 3010 | | | |
| Manganese, Dissolved | 1690 | ug/L | 5.0 | 0.90 | 1 | 03/14/12 16:35 | 03/20/12 12:12 | 7439-96-5 | |
| 2540C Total Dissolved Solids | Analytica | al Method: SM 25 | 540C | | | | | | |
| Total Dissolved Solids | 739 | mg/L | 5.0 | 5.0 | 1 | | 03/14/12 10:30 | | |





Project: WILMUTH NO 1 (074937)

| Sample: GW-074937-3712-CB-M\ | N-4 Lab ID: | 60117005004 | Collecte | d: 03/07/12 | 16:30 | Received: 03/ | 10/12 09:00 Ma | atrix: Water | |
|------------------------------|----------------------|-----------------|-----------------|-------------|---------|----------------|----------------|--------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010 MET ICP, Dissolved | - ——— - Analytica | I Method: EPA 6 | | ration Meth | od: EPA | A 3010 | - | _ | |
| Manganese, Dissolved | 1700 t | ug/L | 5.0 | 0.90 | 1 | 03/14/12 16:35 | 03/20/12 12:15 | 7439-96-5 | |
| 2540C Total Dissolved Solids | Analytica | l Method: SM 25 | 540C | | | | | | |
| Total Dissolved Solids | 772 : | mg/L | 5.0 | 5.0 | 1 | | 03/14/12 10:30 | | |

(913)599-5665



QUALITY CONTROL DATA

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

Date: 03/23/2012 01:55 PM

QC Batch: MPRP/17310 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 60117005001, 60117005002, 60117005003, 60117005004

METHOD BLANK: 965102 Matrix: Water

Associated Lab Samples: 60117005001, 60117005002, 60117005003, 60117005004

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Manganese, Dissolved ug/L ND 5.0 03/20/12 11:47

LABORATORY CONTROL SAMPLE: 965103

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Manganese, Dissolved ug/L 1000 1000 100 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 965104 965105

MS MSD 60117005001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual

Manganese, Dissolved ug/L 955 1000 1000 1810 1820 86 87 75-125 0 20



QUALITY CONTROL DATA

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

QC Batch: WET/33974 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60117005001, 60117005002, 60117005003, 60117005004

METHOD BLANK: 964961 Matrix: Water

Associated Lab Samples: 60117005001, 60117005002, 60117005003, 60117005004

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 5.0 03/14/12 10:27

SAMPLE DUPLICATE: 964962

60117174001 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers **Total Dissolved Solids** 3340 mg/L 3460 4 17

SAMPLE DUPLICATE: 964963

60117117002 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers **Total Dissolved Solids** 1060 890 17 17 mg/L



QUALIFIERS

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

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.

Date: 03/23/2012 01:55 PM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WILMUTH NO 1 (074937)

Pace Project No.: 60117005

Date: 03/23/2012 01:55 PM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------------------|-----------------|------------|-------------------|---------------------|
| 60117005001 | GW-074937-3712-CB-MW-1 | EPA 3010 | MPRP/17310 | EPA 6010 | ICP/14765 |
| 60117005002 | GW-074937-3712-CB-MW-2 | EPA 3010 | MPRP/17310 | EPA 6010 | ICP/14765 |
| 60117005003 | GW-074937-3712-CB-MW-3 | EPA 3010 | MPRP/17310 | EPA 6010 | ICP/14765 |
| 60117005004 | GW-074937-3712-CB-MW-4 | EPA 3010 | MPRP/17310 | EPA 6010 | ICP/14765 |
| 60117005001 | GW-074937-3712-CB-MW-1 | SM 2540C | WET/33974 | | |
| 60117005002 | GW-074937-3712-CB-MW-2 | SM 2540C | WET/33974 | | |
| 60117005003 | GW-074937-3712-CB-MW-3 | SM 2540C | WET/33974 | | |
| 60117005004 | GW-074937-3712-CB-MW-4 | SM 2540C | WET/33974 | | |

Alice Tracy - Wilmuth No. 1

From: "Brown, Cassandre M." <cmbrown@craworld.com>

To: "Alice Tracy" < Alice. Tracy@pacelabs.com>

Date: 3/12/2012 1:05 PM **Subject:** Wilmuth No. 1

Hi Alice -

Per our discussion on the phone, the samples you received on 3/10/2012 for the Wilmuth No. 1 Site located in Aztec, NM should be ran for TDS and dissolved Mn only.

Thanks! Cassie

Cassie Brown, Geologist
Conestoga-Rovers & Associates (CRA)

6121 Indian School Rd NE Ste. 200

Albuquerque, NM, USA 87110 Office: (505) 884-0672 Cell: (505) 377-3919 Fax: (505) 884-4932

Email: cmbrown@craworld.com



www.CRAworld.com

This email has been scanned by the Symantec Email Security.cloud service. For more information please visit http://www.symanteccloud.com

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

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|--|------------------------------|-----------------------------------|-----------------------|--------------------------|--------------------|-------------------------|-------------------------|--|-----------------------------------|--|---|-----------------|----------|--|----------|---|---|-----|---|------|-----|------------------------------|----------------------|----------|------|------------------|---------------------|--|
| | | | WATER | VIVICA | | | | | | 3 (| رد 2/ Lab I.I | | | | | | | | | | | SNC | > | _ | | | ol səlqmsS (V/Y) | |
| of | | | DRINKING WATER | OTHER | | | | | | 7 | 90 TWD Pace Project No./ Lab I.D. | \emptyset | 700 | 23 | ha | | | | | | | SAMPLE CONDITIONS | > | | | balad (N) | Sustody Se (Y) | F-ALL-Q-020rev.08, 12-Oct-2007 |
| _ | | | H. | × | | | | | : | • | 00 Pace | | | | | | | | | | | SAM | > | \ | | | Received | Q-020rev. |
| Page: | | | GROUND WATER | | | | | | e (Y/N) | al Chlorin | Residu | 5/1/120 | | | | | | | | | | | 1.2 | | | ο, | oi qməT | F-ALL- |
| | | AGENCY | GROUN | RCRA | ANIA | Ž | (Y/N) | | | | | 120 | | | 3 | | | | | | | TIME | ooko | | | | | |
| | | REGULATORY AGENCY | NPDES | T. | Site Location | STATE: | Analysis Filtered (Y/N) | | , | | | 20B0 | | | <u> </u> | | | | | | | DATE | 3-10-12 | | | | 2.10 | |
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| | | | | | | | | 1 N /X | 1 | | Methan Other | | | | | | | | | | | ACCEPTED BY / AFFILIATION | Phri | | | | 3 | |
| | SC | | | | Alice Tracy | 4 | | Preservatives | | €(| NaOH NaS ₂ S ₂ O | | | | | | | | | | | ¥. | 13 | | | (| | ithin 30 days |
| rmation: | ENFOS | ame: | | | | # 5514,4 | | Prese | | | HCI HNO ³ H ⁵ 20 ⁴ | >< | <u> </u> | × | × | | + | | | | | | 0 | | | ┨、 | | s not paid w |
| Section C Invoice Information: | Attention: | Company Name: | Address: | Pace Qucte Reference: | ace Project | ace Profile | | | S | ATAINER b9v19 | Onpres | メク | 7/ XX | 7 | Z | | | | | | | TIME | 173 |) | | E A | 13/2 | any invoice |
| ** = | * | J | ~ | 14 14 | | . 14 | | | ОГГЕСТІОИ | I O TA 9M9T | | 2 | (K) | 245 | 180 | | | | | | | DATE | 71.8 | | | SIGNATURE | AMPLER: | er month for |
| | | | | | | | | _ | COMPOSITE END/GRAB | | TIME | 101 | 12.62 | | | | | | | | | | 62 | | | | | Immortant Note: By stoning this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any nvoices not paid within 30 days. |
| | | 3own | | | | | | COLLECTED | <u> </u> | , | DATE | 12 | _ , _ | 20 | 3.7.12 | | | | | - | | NOIT | 47/ | | | SAMPLER NAME AND | PRINT | to late charg |
| | ٧S | Kelly Blanchard, Angela Bown | | 9579 | - | | | 00 | COMPOSITE | | T | H | 1 | | 4 | | | | | | | RELINQUISHED BY / AFFILATION | 1/3 | 4 | | SAMF | | nd agreeing t |
| mation: | Mather Mather | ınchard, | | 4515956756 | Wilmuth No 1 | 937 | | | CON | | DATE | 1 | | <u> </u> | | | | | | | | IISHED BY | may orsi | | | | | ent terms an |
| roject Infor | Christine | Kelly Bla | | rder No.: | 1 | ber: 074937 | | - | ee valid codes to | | XiЯTAM 319MAS | 7 | 2 1 S | +. | 13 | | _ | | | | | RELINGL | 250 | | | | | 0 day paym |
| Section B Required Project Information: | Report To: Christine Mathews | Copy To: | | Purchase Order No.: | Project Name: | Project Number: | | des | DW WT WW Sr. Or | gy R F S | | | 170 | 13 | 14 | | | | | | | | | | | | | ace's NET 3 |
| ₩. IE. | - | | | | | | 1 | atrix Co | WATER T. | | | -/// W 1//- | K MILL | んん | ろろ | | | | | | | | | | | | | accepting F |
| | | 6121 Indian School Rd NE, Ste 200 | 10 | EI I | Fax: (505)884-4932 | | | Valid M | DRINKII WASTE WASTE PRODU SOIL/S(| WIPE AIR OTHER TISSUE | | | 12 | 1~ | 71 | | | | | www. | | VTS | | ę. | | | | form vou are |
| | _ | chool Rd | Albequerque, NM 87110 | cmathews@craworld.com | Fax: (50) | standard | | | | SAMPLE ID (A-Z, 0-9 /,-) Sample IDS MUST BE UNIQUE | | 1.0.175.129610. | | 17/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2 | 27.2 | | | | | | | ADDITIONAL COMMENTS | | =4 | | | | sianina this 1 |
| ation: | COP CRA NM | Indian So | nerque, l | iews@cr | 1672 | | | it Information | | SAMPLE ID (A-Z, 0-91, -) ble IDS MUST BE UN | | 14427 | 14/2 | 146% | 18/18/19 | † | | | | | | DITIONAL | さる | ILLING. | | | | Note: |
| ljen | COP | 6121 | Albeq | cmath | (505)884-0672 | Requested Due Date/TAT: | | Section D Required Client Information | | Sample IC | • | Corr | 1 (P) T | | < ۱ | | | | | | | ₹ | ACICAL SOLVED STATES | REG | 16/2 | | | * |
| Section A Required C | Company: | Address: | | Email To: | Phone: (5 | equested | | <u> </u> | | | # W∃11 | , | + | | 7 | | 9 | - 8 | 6 | 10 | + 2 | | Code A | J. W. | age | Pa | ckag | e 16 |



Sample Condition Upon Receipt – ESI Tech Specs

| Client Name: COP | CRA | Project #: | (9011 7005 |
|--|-------------------------|---|--|
| Courier: Fed Ex 😾 UPS 🗆 USPS 🗀 Client 🗈 | ☐ Commercial ☐ Pac | ce 🗆 Other 🗆 | Optional |
| Tracking #: 898635398547 | Pace Shipping Label Us | sed? Yes 🗹 No 🛭 | Proj Due Date: 3 122√2 □ Proj Name: |
| Custody Seal on Cooler/Box Present: Yes | • | | |
| | Bags □ Foam | None □ | Other 27 |
| Thermometer Used: (T-191) / T-194 | Type of Ice: Wet Blue | e None 🗆 Samples | received on ice, cooling process has begun. |
| Cooler Temperature: | (circle | one) | ate and initials of person examining |
| Temperature should be above freezing to 6°C | | cc | ontents: 037072 |
| Chain of Custody present: | Yes □No □N/A | 1 | |
| Chain of Custody filled out: | ZYes □No □N/A | 2. | |
| Chain of Custody relinquished: | ∕ ØYes □No □N/A | 3. | |
| Sampler name & signature on COC: | ZYes □No □N/A | 4. | |
| Samples arrived within holding time: | ZYes □No □N/A | 5. | |
| Short Hold Time analyses (<72hr): | □Yes ØNo □N/A | 6. | |
| Rush Turn Around Time requested: | □Yes No □N/A | 7. | |
| Sufficient volume: | ZYes □No □N/A | 8. | |
| Correct containers used: | Yes □No □N/A | | |
| -Pace containers used: | Yes □No □N/A | 9. | |
| Containers intact: | Yes □No □N/A | 10. | |
| Unpreserved 5035A soils frozen w/in 48hrs? | □Yes □No ☑N/A | 11. | |
| Filtered volume received for dissolved tests? | □Yes □No ØN/A | 12. | |
| Sample labels match COC: | ZYes □No □N/A | | |
| -Includes date/time/ID/analyses Matrix: | WT | 13. | |
| All containers needing preservation have been checked. | Yes □No □N/A | | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ZYes □No □N/A | 14. | |
| Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | · | Initial when | Lot # of added |
| Phenolics Trip Blank present: | □Yes □No ☑N/A | completed | preservative |
| Pace Trip Blank lot # (if purchased): | | 15. | |
| Headspace in VOA vials (>6mm): | □Yes □No ZN/A | | |
| | / | 16. | |
| Project sampled in USDA Regulated Area: | | 17. List State: | 4 |
| ir roject sampled in USDA Regulated Area. | LICS LINU DEINIA | irr. List State. | |
| Client Notification/ Resolution: Copy | y COC to Client? Y / (N | Field Data Red | quired? Y / N |
| Person Contacted: | Date/Time: | AMALAN, 1111/11111111111111111111111111111111 | Temp Log: Record start and finish times when unpacking cooler, if >20 min, |
| Comments/ Resolution: | | | recheck sample temps. |
| | | | Start: /230 Start: |
| Proiect Manager Review: | Γ | Date: 3 2 2 | End: 123 End: Temp: Temp: |
| Fluidictivianage review. Pt 1 | | Jaic. VIIVIIV | HEITID. HEITID. |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the NCDENR Certification Office

(i.e out of hold, incorrect preservative, out of temp, incorrect containers).

F-KS-C-004-Rev.0, 02February2011



(913)599-5665



June 19, 2012

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

RE: Project: Wilmuth No 1

Pace Project No.: 60122912

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2012. 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 Flanagan

Alice Flanagan

alice.flanagan@pacelabs.com Project Manager

Enclosures

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





(913)599-5665



CERTIFICATIONS

Project: Wilmuth No 1
Pace Project No.: 60122912

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 A2LA Certification #: 2456.01 Arkansas Certification #: 05-008-0 Illinois Certification #: 001191 lowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-08-TX Utah Certification #: 9135995665





SAMPLE SUMMARY

Project: Wilmuth No 1
Pace Project No.: 60122912

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
|-------------|--------------------------|--------|----------------|----------------|--|
| 60122912001 | GW-074937-060612-CB-MW-1 | Water | 06/06/12 11:00 | 06/08/12 08:45 | |
| 60122912002 | GW-074937-060612-CB-MW-2 | Water | 06/06/12 10:20 | 06/08/12 08:45 | |
| 60122912003 | GW-074937-060612-CB-MW-4 | Water | 06/06/12 10:30 | 06/08/12 08:45 | |
| 60122912004 | GW-074937-060612-CB-MW-3 | Water | 06/06/12 10:45 | 06/08/12 08:45 | |





SAMPLE ANALYTE COUNT

Project: Wilmuth No 1
Pace Project No.: 60122912

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------------------|----------|----------|----------------------|
| 60122912001 | GW-074937-060612-CB-MW-1 | EPA 6010 | JDH | 1 |
| | | SM 2540C | DJR | 1 |
| 60122912002 | GW-074937-060612-CB-MW-2 | EPA 6010 | JDH | 1 |
| | | SM 2540C | DJR | 1 |
| 60122912003 | GW-074937-060612-CB-MW-4 | EPA 6010 | JDH | 1 |
| | | SM 2540C | DJR | 1 |
| 60122912004 | GW-074937-060612-CB-MW-3 | EPA 6010 | JDH | 1 |
| | | SM 2540C | DJR | 1 |

(913)599-5665



PROJECT NARRATIVE

Project: Wilmuth No 1
Pace Project No.: 60122912

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: June 19, 2012

General Information:

4 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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: MPRP/18387

- B: Analyte was detected in the associated method blank.
 - GW-074937-060612-CB-MW-1 (Lab ID: 60122912001)
 - Manganese, Dissolved
 - GW-074937-060612-CB-MW-2 (Lab ID: 60122912002)
 - Manganese, Dissolved
 - GW-074937-060612-CB-MW-3 (Lab ID: 60122912004)
 - Manganese, Dissolved
 - GW-074937-060612-CB-MW-4 (Lab ID: 60122912003)
 - Manganese, Dissolved

REPORT OF LABORATORY ANALYSIS



PROJECT NARRATIVE

Project: Wilmuth No 1
Pace Project No.: 60122912

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: June 19, 2012

General Information:

4 samples were analyzed for SM 2540C. 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.

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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





ANALYTICAL RESULTS

Project: Wilmuth No 1
Pace Project No.: 60122912

Total Dissolved Solids

Sample: GW-074937-060612-CB- Lab ID: 60122912001 Collected: 06/06/12 11:00 Received: 06/08/12 08:45 Matrix: Water

851 mg/L

MW-1 Report Results Units Limit MDL DF CAS No. Qual **Parameters** Prepared Analyzed 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 886 ug/L 5.0 0.60 06/15/12 15:55 06/18/12 11:49 7439-96-5 В 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0





ANALYTICAL RESULTS

Project: Wilmuth No 1 Pace Project No.: 60122912

Sample: GW-074937-060612-CB-Lab ID: 60122912002 Collected: 06/06/12 10:20 Received: 06/08/12 08:45 Matrix: Water

688 mg/L

MW-2

Total Dissolved Solids

Report Results Units Limit MDL DF CAS No. Qual **Parameters** Prepared Analyzed 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1260 ug/L 5.0 0.60 06/15/12 15:55 06/18/12 11:55 7439-96-5 В 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0





ANALYTICAL RESULTS

Project: Wilmuth No 1
Pace Project No.: 60122912

Total Dissolved Solids

Sample: GW-074937-060612-CB- Lab ID: 60122912003 Collected: 06/06/12 10:30 Received: 06/08/12 08:45 Matrix: Water

662 mg/L

MW-4 Report Results Units Limit MDL DF CAS No. Qual **Parameters** Prepared Analyzed 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1460 ug/L 5.0 0.60 06/15/12 15:55 06/18/12 12:01 7439-96-5 В 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0





ANALYTICAL RESULTS

Project: Wilmuth No 1 Pace Project No.: 60122912

Sample: GW-074937-060612-CB-Lab ID: 60122912004 Collected: 06/06/12 10:45 Received: 06/08/12 08:45 Matrix: Water

709 mg/L

MW-3

Total Dissolved Solids

Report Results Units Limit MDL DF Prepared CAS No. Qual **Parameters** Analyzed 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1740 ug/L 5.0 0.60 06/15/12 15:55 06/18/12 12:03 7439-96-5 В 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0

(913)599-5665



QUALITY CONTROL DATA

Project: Wilmuth No 1
Pace Project No.: 60122912

QC Batch: MPRP/18387 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 60122912001, 60122912002, 60122912003, 60122912004

METHOD BLANK: 1014959 Matrix: Water

Associated Lab Samples: 60122912001, 60122912002, 60122912003, 60122912004

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Manganese, Dissolved ug/L 11.2 5.0 06/18/12 11:47

LABORATORY CONTROL SAMPLE: 1014960

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Manganese, Dissolved ug/L 1000 934 93 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014961 1014962

MS MSD 60122912001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Manganese, Dissolved 1000 1770 1790 75-125 20 ug/L 886 1000 88 91

Date: 06/19/2012 01:35 PM REPORT OF LABORATORY ANALYSIS

Page 11 of 14



QUALITY CONTROL DATA

Project: Wilmuth No 1
Pace Project No.: 60122912

QC Batch: WET/35515 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60122912001, 60122912002, 60122912003, 60122912004

METHOD BLANK: 1013090 Matrix: Water

Associated Lab Samples: 60122912001, 60122912002, 60122912003, 60122912004

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 5.0 06/13/12 09:47

SAMPLE DUPLICATE: 1013091

 Parameter
 Units
 60122870017 Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 Total Dissolved Solids
 mg/L
 2230
 2200
 1
 17

SAMPLE DUPLICATE: 1013092

60122948004 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers **Total Dissolved Solids** 8270 0 17 8240 mg/L



QUALIFIERS

Project: Wilmuth No 1
Pace Project No.: 60122912

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.

ANALYTE QUALIFIERS

Date: 06/19/2012 01:35 PM

B Analyte was detected in the associated method blank.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Wilmuth No 1
Pace Project No.: 60122912

Date: 06/19/2012 01:35 PM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------------|-----------------|------------|-------------------|---------------------|
| 60122912001 | GW-074937-060612-CB-MW-1 | EPA 3010 | MPRP/18387 | EPA 6010 | ICP/15405 |
| 60122912002 | GW-074937-060612-CB-MW-2 | EPA 3010 | MPRP/18387 | EPA 6010 | ICP/15405 |
| 60122912003 | GW-074937-060612-CB-MW-4 | EPA 3010 | MPRP/18387 | EPA 6010 | ICP/15405 |
| 60122912004 | GW-074937-060612-CB-MW-3 | EPA 3010 | MPRP/18387 | EPA 6010 | ICP/15405 |
| 60122912001 | GW-074937-060612-CB-MW-1 | SM 2540C | WET/35515 | | |
| 60122912002 | GW-074937-060612-CB-MW-2 | SM 2540C | WET/35515 | | |
| 60122912003 | GW-074937-060612-CB-MW-4 | SM 2540C | WET/35515 | | |
| 60122912004 | GW-074937-060612-CB-MW-3 | SM 2540C | WET/35515 | | |



Sample Condition Upon Receipt – ESI Tech Specs

| Client Name: Cor CAA | NIVI | | Project # | F: <u>(201</u> | 22912 |
|--|--------------------------------------|----------------|---------------------------------------|-----------------------------|--|
| Courier: Fed Ex 2 UPS □ USPS □ Client □ | Commercial [|] Pace □ | Other □ | | Ontional |
| | Commercial | ı race u | Other L | | Optional Proj Due Date: 0/2 |
| Tracking #: <u>8993 900/ 6610</u> | Pace Shipping L | abel Used? | Yes □ No | | Proj Name: Wilmith W |
| Custody Seal on Cooler/Box Present: Yes 🗷 No | □ Seals inta | act: Yes | No □ | | |
| Packing Material: Bubble Wrap Bubble B | ags □ F | Foam □ | None □ | Other 🗆 | |
| <i>i</i> — | ype of ice: We | | Г | | e, cooling process has begun. |
| Cooler Temperature: | | (circle one) | · | Date and initials contents: | of person examining |
| Chain of Custody present: | ⊠Yes □No I | □N/A 1. | | | |
| Chain of Custody filled out: | ∕ Yes □No I | □N/A 2. | | | |
| Chain of Custody relinquished: | ¶Yes □No I | □N/A 3. | | | |
| Sampler name & signature on COC: | ØYes □No I | □N/A 4. | | | |
| Samples arrived within holding time: | - ZYes □No 1 | □n/A 5. | | | |
| Short Hold Time analyses (<72hr): | ☐Yes \$27No [| □N/A 6. | | | |
| Rush Turn Around Time requested: | □Yes X No I | □N/A 7. | | | |
| Sufficient volume: | Seres □No I | □N/A 8. | | | |
| Correct containers used: | ZYes □No [| □n/a | | | , |
| -Pace containers used: | ØYes □No [| □N/A 9. | | | |
| Containers intact: | Øres □No i | □N/A 10. | | | |
| Unpreserved 5035A soils frozen w/in 48hrs? | □Yes □No | Σπ/A 11. | | | |
| Filtered volume received for dissolved tests? | ØYes □No | ØÑ/A 12. | | | |
| Sample labels match COC: | Yes □No I | □N/A | no a | ontemas v | received for EX. |
| -Includes date/time/ID/analyses Matrix: | ater | 13. | | 8260 BT | EX. |
| All containers needing preservation have been checked. | ØYes □No [| □N/A | | | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ' EZYes □No [| □N/A 14. | | | |
| Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics | (☑Yes □No | Initial v | | Lot # of | |
| Trip Blank present: | □Yes □No I | | eted TMS | preserva | ative |
| Pace Trip Blank lot # (if purchased): | □ 163 □140 I | 15. | | | |
| Headspace in VOA vials (>6mm): | □Yes □No [| | · · · · · · · · · · · · · · · · · · · | | |
| | | 16. | ∌ | | |
| Project sampled in USDA Regulated Area: | □Yes □No [| | st State: | | |
| Client Notification/ Resolution: Copy C | COC to Client? | Y /(N) | Field Data Re | equired? Y / | ' N |
| Person Contacted: | ate/Ţime: | | | | Record start and finish times king cooler, if >20 min, |
| Comments/ Resolution: Dev (1055) - We Will N | of be receiv | MG SAM | ple volume | recheck sam | |
| tor 8240 BTG analysis. Please | move torwa | John of | heranalys | Start: 11 | oo Start: |
| U/8/12 1995 | · | | dala | End: (1 | 05 End: |
| Project Manager Review: | | Date: | NAMA | Temp: | Temp: |
| Note: Whenever there is a discrepancy affecting North Card (i.e. out of hold, incorrect preservative, out of temp, incorre | iina compliance sa t containers). | amples, a copy | of this form will | be sent to the NC | DENR Certification Office |

F-KS-C-004-Rev.0, 02February2011

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

| of | | | DRINKING WATER | i i | מושבים | Order | Order Control | | | 121912 | 212 | | | | | | | | | | | |
|------------------------------|------------------|--|-----------------------|--------------------------|----------------------------|--|-----------------------------------|--|--------------------------|---|--|--|---|---|--|--|---|---|---|--|---|---|
| Page: | | GENCY | GROUND WATER DRI | RCRA CTHER | | ININI | | (YIN) | YIN) | | Residual Chlorine (Y/V) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/N) | Residual Chlorine (Y/V) |
| | | REGULATORY AGENCY | ✓ NPDES | TSU T | Site Location | STATE: | Requested Analysis Filtered (Y/N) | | | 201 00+62 | | | | | | | | | | DATE | DATE UNITE | DATE |
| | | Manual Made And Andreas Andrea | | | | The state of the s | Request | ∱N/A | | nanol et 19 STEX 1901 Dissolved Mn | Methanol Uther Analysis Test S260 BTEX EPA 6010 Dissolved Mn SM 2540C TDS | Other LAnalysis Test \$260 BTEX BPA 6010 Dissolved Mn | Other \$\int \text{Analysis Test\$}\$ \$\text{Analysis Test Test\$}\$ \$\text{Analysis Test Test\$}\$ \$\text{Analysis Test Test Test}\$ \$\text{Analysis Test}\$ \$\text | Other Other Sect Sect Sect Sect Sect Sect Sect Sect | Methanol Other ↓ Analysis Test↓ & S260 BTEX BPA 6010 Dissolved Mn | Methanol Other \$\alpha\$ Analysis Test\$ \$\alpha\$ Asson BTEX \$\alpha\$ Asson Dissolved Mn | Methanol Other ↓ Analysis Test↓ ♣ Analysis Test↓ ♣ Analysis Test↓ | Methanol Other ↓ Analysis Test↓ ♣ S260 BTEX ♣ S260 BTEX ♣ S260 BTEX | Methanol Other ↓ Analysis Test↓ ↓ Analysis Test↓ § 2560 BTEX § 260 BTEX | Methanol Other Other Analysis Test Analysis Test Methanol | Methanol Methanol | Methanol Wethanol Test Analysis T |
| orma | Attention: ENFOS | Сотралу Name: | Address | Pace Quote Reference: | Pace Project Alice Tracy | Pace Profile #: 5514, 4 | | Preservatives | | reserved D ₄ 50 | NS ² S ⁵ O ³ | MaOH HCI HV2O ⁴ Unbreserved | HCI H ² SO [†] HOO ³ HOO ³ HOO ³ | HCI HSQV HVSQV HUO3 | HCI HCI HCI HVS HVSO ⁴ HNO ³ HVSO ⁴ HND-1 | NaOH HCI HNO3 H2SO4 Onpreserved | HCI HCI HO ² HV ² CO ⁴ HO ³ HO ³ HO ⁴ HO ⁴ HO ³ HO ⁴ HO ³ HO ⁴ HO ³ HO ⁴ HO ⁴ HO ⁵ HO ⁶ | HCI HACO | HCI HVSQ HUO3 HVSQ HUO3 | HOD HCI HVSQ4 HVSQ4 HVSQ4 HVSQ4 HVSQ4 HOD HCI HCI HCI HCI HCI HCI HCI HCI HCI HCI | HO2 HYSO4 HV2SO4 HySO4 HO3 HySO4 | HOD HCI HVSQV HVSQV HOSQ |
| Invo | Atte | Con | Add | Pace | Pace | Pace | | | | | E SAMPLE TEMP AT CONTAINERS | SAMPLE TEMP AT CO | TA WANTE TEMP AT CO | SAMPLE TEMP AT CO | SAMPLE TEMP AT CO | SAMPLE TEMP AT CO | SAMPLE TEMP AT CO | SAMPLE TEMP AT CO | SAMPLE TEMP AT CO | PATE SAMPLE TEMP AT CO | PARTIE TEMP AT CO. | PATE CONTAINERS |
| on: | athews | Kelly Blanchard, Angela Bown | | 4515956756 | h No 1 | 7 | | COLLECTED | COMPOSITE CO START EP | | DATE TIME DATE | TIME | TIME | TIME S S S S S | TIME | TIME | TIME | TIME | TIME S S S S S S S S S S S S S S S S S S S | TIME 6 | | |
| Report To: Christine Mathews |) | Copy To: Kelly Blanch | | Purchase Order No.: 451 | Project Name: Wilmuth No 1 | Project Number: 074937 | | Thei of | cee valid codes | BIX CODE | MATRIX CODE (6 | MATRIX CODE (6 | WATRIX CODE (G | MATRIX CODE (G | TO TO TO SAMPLE TYPE (G | WATRIX CODE | WATRIX CODE | TOODE (BEET WATRIX CODE OF THE LABE (CODE OF THE LABE) | TOOR OF WATRIX CODE | | | |
| Required Project Information | Ref | | 7110 | | Fax (505)884-4932 Proj | | | | | OTHER TISSUE | OTHER TISSUE | OTHER TISSUE | OTHER TISSUE | OTHER TISSUE | top Table | top Maria | | | | | | (5° 1902 1 |
| Required Client Information: | COP CRA NM | 6121 Indian School Rd NE, Ste 200 | Albequerque, NM 87110 | cmathews@craworld.com | (505)884-0672 Fax (5 | ue Date/TAT: standard | | Section D Required Client Information | SAMPLE ID | sample IDs MUST BE UNIQL | iample IDs MUST BE UNIQU | Sample IDs MUST BE UNIQUE. | Sample IDs MUST BE UNIQL W: の4名7 : stail a W: 女子4名7 : dail a | e IDS MUST 014631. | Sample IDS MUST BE UNIQUE. CONTROL CON | 9 IDS MUST 204651 | ismple IDs MUST BE UNIQU W.O74651-Gala かつ74651-Gala W.O74651-Gala W.O74657-Gala | iample IDs MUST BE UNIQU WON487 - Class DONA837 - Class WON487 - Class WON487 - Class WON487 - Class | iample IDs MUST BE UNIQUE (2) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | Sample IDS MUST BE UNIQUE W.O14651-Gada L. U.O74651-Gada L. W.O74651-Cada(L. W.O74651-Cada(L. M.O74651-Cada(L. M.O74651-Cada(L. M.O74651-Cada(L. ADDITIONAL COMMENTS | ## Sample IDS MUST BE UNIQUED 2 | ismple IDS MUST BE UNIQUE WOODS 1. CACO. WOODS 1. CACO. WOODS 1. CACO. WOODS 1. CACO. ADDITIONAL COMM. |
| | Company: | Address | | Email To: | Phone: (505) | Requested Due Date/TAT: | | Sectiv | S | | ITEM# | 10, | 100 | 420 | 190000 | 140009 | 190009 | | | 190009 | 12 1 1 0 0 8 4 0 0 1 1 EM# | 12 1 0 9 8 7 6 5 4 3 2 1 ITEM# |





October 02, 2012

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

RE: Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on September 22, 2012. 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 Flanagan

alice.flanagan@pacelabs.com Project Manager

Alice Flanagan

Enclosures

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







CERTIFICATIONS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 A2LA Certification #: 2456.01 Arkansas Certification #: 12-019-0 Illinois Certification #: 002885 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-12-3 Utah Certification #: KS000212012-2

Lenexa, KS 66219 (913)599-5665



SAMPLE SUMMARY

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------------------|--------|----------------|----------------|
| 60129622001 | GW-074937-091912JP-MW-1 | Water | 09/19/12 11:30 | 09/22/12 08:50 |
| 60129622002 | GW-074937-091912JP-MW-2 | Water | 09/19/12 10:10 | 09/22/12 08:50 |
| 60129622003 | GW-074937-091912JP-MW-3 | Water | 09/19/12 11:20 | 09/22/12 08:50 |
| 60129622004 | GW-074937-091912JP-MW-4 | Water | 09/19/12 10:00 | 09/22/12 08:50 |
| 60129622005 | GW-074937-091912JPDUP | Water | 09/19/12 11:35 | 09/22/12 08:50 |





SAMPLE ANALYTE COUNT

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-------------------------|----------|----------|----------------------|
| 60129622001 | GW-074937-091912JP-MW-1 | EPA 6010 | JGP | 1 |
| | | SM 2540C | NDL | 1 |
| 60129622002 | GW-074937-091912JP-MW-2 | EPA 6010 | JGP | 1 |
| | | SM 2540C | NDL | 1 |
| 60129622003 | GW-074937-091912JP-MW-3 | EPA 6010 | JGP | 1 |
| | | SM 2540C | NDL | 1 |
| 60129622004 | GW-074937-091912JP-MW-4 | EPA 6010 | JGP | 1 |
| | | SM 2540C | NDL | 1 |
| 60129622005 | GW-074937-091912JPDUP | EPA 6010 | JGP | 1 |
| | | | | |



PROJECT NARRATIVE

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: October 02, 2012

General Information:

5 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: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: October 02, 2012

General Information:

4 samples were analyzed for SM 2540C. 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.

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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





ANALYTICAL RESULTS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Sample: GW-074937-091912JP-MW- Lab ID: 60129622001 Collected: 09/19/12 11:30 Received: 09/22/12 08:50 Matrix: Water

Report Results Units Limit MDL DF CAS No. **Parameters** Prepared Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 915 ug/L 5.0 09/24/12 13:45 10/01/12 11:35 7439-96-5 0.60 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 853 mg/L 5.0 5.0 09/25/12 15:46

09/25/12 15:47





ANALYTICAL RESULTS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Total Dissolved Solids

Sample: GW-074937-091912JP-MW- Lab ID: 60129622002 Collected: 09/19/12 10:10 Received: 09/22/12 08:50 Matrix: Water

Report Results Units Limit MDL DF CAS No. **Parameters** Prepared Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1390 ug/L 5.0 09/24/12 13:45 10/01/12 11:37 7439-96-5 0.60 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0

5.0

736 mg/L





ANALYTICAL RESULTS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Sample: GW-074937-091912JP-MW- Lab ID: 60129622003 Collected: 09/19/12 11:20 Received: 09/22/12 08:50 Matrix: Water

Report Results Units Limit MDL DF CAS No. **Parameters** Prepared Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1600 ug/L 5.0 09/24/12 13:45 10/01/12 11:40 7439-96-5 0.60 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 723 mg/L 5.0 5.0 09/25/12 15:47





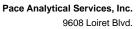
ANALYTICAL RESULTS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Sample: GW-074937-091912JP-MW-Lab ID: 60129622004 Collected: 09/19/12 10:00 Received: 09/22/12 08:50 Matrix: Water

Report Results Units Limit MDL DF CAS No. **Parameters** Prepared Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1900 ug/L 5.0 0.60 09/24/12 13:45 10/01/12 11:42 7439-96-5 2540C Total Dissolved Solids Analytical Method: SM 2540C **Total Dissolved Solids** 771 mg/L 5.0 09/25/12 15:47



Lenexa, KS 66219 (913)599-5665



ANALYTICAL RESULTS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Sample: GW-074937-091912JPDUP Lab ID: 60129622005 Collected: 09/19/12 11:35 Received: 09/22/12 08:50 Matrix: Water

Report

Parameters Results Units Limit MDL DF Prepared Analyzed CAS No. Qual

6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010

Manganese, Dissolved 939 ug/L 5.0 0.60 1 09/24/12 13:45 10/01/12 11:44 7439-96-5



QUALITY CONTROL DATA

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

QC Batch: MPRP/19622 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 60129622001, 60129622002, 60129622003, 60129622004, 60129622005

METHOD BLANK: 1066225 Matrix: Water

Associated Lab Samples: 60129622001, 60129622002, 60129622003, 60129622004, 60129622005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Manganese, Dissolved ug/L ND 5.0 10/01/12 11:09

LABORATORY CONTROL SAMPLE: 1066226

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Manganese, Dissolved ug/L 1000 999 100 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1066227 1066228

MS MSD 60129643004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Manganese, Dissolved 1000 2270 2270 75-125 0 20 ug/L 1320 1000 95 95

Date: 10/02/2012 02:20 PM REPORT OF LABORATORY ANALYSIS

Page 12 of 15



QUALITY CONTROL DATA

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

QC Batch: WET/37321 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60129622001, 60129622002, 60129622003, 60129622004

METHOD BLANK: 1066889 Matrix: Water

Associated Lab Samples: 60129622001, 60129622002, 60129622003, 60129622004

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 5.0 09/25/12 15:41

SAMPLE DUPLICATE: 1066890

 Parameter
 Units
 60129346001 Result
 Dup Result
 Max RPD
 Max RPD
 Qualifiers

 Total Dissolved Solids
 mg/L
 651
 655
 1
 17

SAMPLE DUPLICATE: 1066891

60129541001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 664 668 17 **Total Dissolved Solids** 1 mg/L

Date: 10/02/2012 02:20 PM



QUALIFIERS

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

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.

Date: 10/02/2012 02:20 PM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 074937 WILMUTH NO 1

Pace Project No.: 60129622

Date: 10/02/2012 02:20 PM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------------|-----------------|------------|-------------------|---------------------|
| 60129622001 | GW-074937-091912JP-MW-1 | EPA 3010 | MPRP/19622 | EPA 6010 | ICP/16166 |
| 60129622002 | GW-074937-091912JP-MW-2 | EPA 3010 | MPRP/19622 | EPA 6010 | ICP/16166 |
| 60129622003 | GW-074937-091912JP-MW-3 | EPA 3010 | MPRP/19622 | EPA 6010 | ICP/16166 |
| 60129622004 | GW-074937-091912JP-MW-4 | EPA 3010 | MPRP/19622 | EPA 6010 | ICP/16166 |
| 60129622005 | GW-074937-091912JPDUP | EPA 3010 | MPRP/19622 | EPA 6010 | ICP/16166 |
| 60129622001 | GW-074937-091912JP-MW-1 | SM 2540C | WET/37321 | | |
| 60129622002 | GW-074937-091912JP-MW-2 | SM 2540C | WET/37321 | | |
| 60129622003 | GW-074937-091912JP-MW-3 | SM 2540C | WET/37321 | | |
| 60129622004 | GW-074937-091912JP-MW-4 | SM 2540C | WET/37321 | | |

CHAIN-OF-CUSTODY / Analytical Request Document

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

Pace Analytical

52 2 3 3 3 Pace Project No./ Lab I.D. (N/X) **DRINKING WATER** Samples Intact SAMPLE CONDITIONS UBP34 OTHER Cooler (Y/N) ŏ Z Custody Seale 1813F1.5 Ice (Y/N) > Received on > GROUND WATER Page: Residual Chlorine (Y/N) O° ni qmeT ₹ REGULATORY AGENCY RCRA Requested Analysis Filtered (Y/N) 850 TIME. 2012 9-22-12 Site Location STATE L NPDES DATE 17 UST 60 DATE Signed (MM/DD/YY): ACCEPTED BY / AFFILIATION **2M 2540C TDS** EPA 6010 Dissolved Mn N /A Analysis Test Other Methanol Alice Flanagan Loud Important Note. By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of § 5% per month for any invoices not paid within 30 days. Preservatives Na₂S₂O₃ HOBN 5514, 4 ENFOS HCI involce Information EONH Manager: Pace r rofile #: DS2H Company Nan XXIII Pace Guote Reference: Pace Project alla Section C Unpreserved 1200 TIME ttention. Address # OF CONTAINERS SIGNATURE of SAMPLER: SAMPLER NAME AND SIGNATURE 21.2012 PRINT Name of SAMPLER: SAMPLE TEMP AT COLLECTION DATE 1133 1120 1000 1135 000 ٠ COMPOSITE END/GRAB 9.M.F 9.19.12 9.19.12 9-19-12 9.9.12 COLLECTED Ficher / CRA Keliy Blanchard, Angela Bown RELINQUISHED BY / AFFILIATION TIME COMPOSITE 4515956756 Report To: Christine Mathews Wilmuth No 1 DATE Required Project Information 074937 cb 6 C (G=GRAB C=COMP) SAMPLE TYPE Purchase Order No.: Project Number. 5 (see valid codes to left) MATRIX CODE Project Name: Section B Copy To: -074937-071912-JP-MW-4 SW-074937-091912-1528-MW-2 13-074937-091912-JP. MW. -JP-DUP Valid Matrix Codes 3633 3W-074937-691912-17-MW DRINKING WATER WATER WASTE WATCR PRODUCT SOIL/SOLID 6121 Indian School Rd NE, Ste 200 Fax: (505)884-4932 MATRIX AIR OTHER TISSUE -074937-091912 Albequerque, NM 87110 cmathews@craworld.com ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE standard SAMPLE ID Required Client Information COP CRA NM Section A Required Client Information: (505)884-0672 Requested Due Date/TAT: Section D 3 company: Email To: \ddress hone Pace Package 16 of 17 9 £ 12 40 9 00 6

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



Sample Condition Upon Receipt – ESI Tech Specs

| Client Name: COP CRA NA | 1 | Project # | : 60/29622 |
|---|---------------------|------------------------------|--|
| Courier: Fed Ex 1 UPS USPS Client | Commercial | Pace Other | Optional Proj Due Date: {0 4 |
| Tracking #: 8993 9001 6584 F | Pace Shipping Label | , | Proj Name: |
| Custody Seal on Cooler/Box Present: Yes ☐ No | Seals intact: | Yes □ No | |
| Packing Material: Bubble Wrap ☐ Bubble Ba | _ | | Other 1 ZPLC |
| Thermometer Used: T-191 / T-194 Ty | | ala ana\ | s received on ice, cooling process has begun. |
| Cooler Temperature: 1.2 | (CII | cle one) | Date and initials of person examining contents: 9-22-12 BA |
| Temperature should be above freezing to 6°C | | | |
| Chain of Custody present: | ☑Yes □No □N/A | | |
| Chain of Custody filled out: | ✓Yes □No □N// | 2. | |
| Chain of Custody relinquished: | Yes No N/ | 3. | |
| Sampler name & signature on COC: | Yes No NI | 4. | |
| Samples arrived within holding time: | Yes No No | 5. | |
| Short Hold Time analyses (<72hr): | □Yes ☑No □N/ | 6. | |
| Rush Turn Around Time requested: | □Yes ☑No □N/ | 7. | |
| Sufficient volume: | √Yes □No □N/ | A 8. | |
| Correct containers used: | Yes ONO ON/ | 4 | |
| | √Yes □No □N/ | | |
| -Pace containers used: | Yes ONO ON | | |
| Containers intact: | | 10. | |
| Unpreserved 5035A soils frozen w/in 48hrs? | | 114 | |
| Filtered volume received for dissolved tests? | Yes No N | | |
| Sample labels match COC: | MYes □No □N/ | A | |
| -Includes date/time/ID/analyses Matrix: WT | | 13. | |
| All containers needing preservation have been checked. | Yes DNo DN | A | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | Yes No No | A 14. | |
| Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics | □Yes dNo | Initial when completed | Lot # of added preservative |
| Trip Blank present: | □Yes □No ☑N | | |
| Pace Trip Blank lot # (if purchased): | | 15. | |
| Headspace in VOA vials (>6mm): | □Yes □No ☑N | 'A | |
| | | 16. | |
| Project sampled in USDA Regulated Area: | □Yes □No ☑N | | 1 |
| Client Notification/ Resolution: Copy C | COC to Client? Y | //N Field Data R | |
| Person Contacted: | Date/Time: | | Temp Log: Record start and finish times when unpacking cooler, if >20 min, |
| Comments/ Resolution: | | | recheck sample temps. |
| | | | Start: 1145 Start: |
| - MT | | 2.012410 | End: 1150 End: |
| Project Manager Review: | alina appopliance a | Date: 12412 | Temp: Temp: |
| Note: Whenever there is a discrepancy affecting North Card (i.e out of hold, incorrect preservative, out of temp, incorrect | ct containers). | nes, a cupy of this form wil | The sent to the Nobel 11 Octahioanon Onles |





December 27, 2012

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

RE: Project: 074937 WILMUTH NO 1

Pace Project No.: 60135324

Dear Christine Matthews:

Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2012. 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 Flanagan

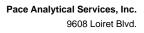
Alice Flanagan

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





Lenexa, KS 66219 (913)599-5665



CERTIFICATIONS

Project: WILMUTH NO 1
Pace Project No.: 60135324

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219 A2LA Certification #: 2456.01 Arkansas Certification #: 12-019-0 Illinois Certification #: 002885 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212008A Oklahoma Certification #: 9205/9935 Texas Certification #: T104704407-12-3 Utah Certification #: KS000212012-2

Lenexa, KS 66219 (913)599-5665



SAMPLE SUMMARY

Project: WILMUTH NO 1
Pace Project No.: 60135324

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
|-------------|--------------------------|--------|----------------|----------------|--|
| 60135324001 | GW-074937-121212-CM-MW-1 | Water | 12/12/12 14:20 | 12/13/12 08:30 | |
| 60135324002 | GW-074937-121212-CM-MW-2 | Water | 12/12/12 13:50 | 12/13/12 08:30 | |
| 60135324003 | GW-074937-121212-CM-MW-3 | Water | 12/12/12 13:40 | 12/13/12 08:30 | |
| 60135324004 | GW-074937-121212-CM-MW-4 | Water | 12/12/12 14:40 | 12/13/12 08:30 | |
| 60135324005 | GW-074937-121212-CM-DUP | Water | 12/12/12 13:45 | 12/13/12 08:30 | |





SAMPLE ANALYTE COUNT

Project: WILMUTH NO 1
Pace Project No.: 60135324

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|--------------------------|----------|----------|----------------------|
| 60135324001 | GW-074937-121212-CM-MW-1 | EPA 6010 | JGP | 1 |
| | | SM 2540C | FJF | 1 |
| 60135324002 | GW-074937-121212-CM-MW-2 | EPA 6010 | JGP | 1 |
| | | SM 2540C | FJF | 1 |
| 60135324003 | GW-074937-121212-CM-MW-3 | EPA 6010 | JGP | 1 |
| | | SM 2540C | FJF | 1 |
| 60135324004 | GW-074937-121212-CM-MW-4 | EPA 6010 | JGP | 1 |
| | | SM 2540C | FJF | 1 |
| 60135324005 | GW-074937-121212-CM-DUP | SM 2540C | FJF | 1 |



PROJECT NARRATIVE

Project: WILMUTH NO 1
Pace Project No.: 60135324

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: December 27, 2012

General Information:

4 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: WILMUTH NO 1
Pace Project No.: 60135324

Method: SM 2540C

Description: 2540C Total Dissolved Solids

Client: COP Conestoga-Rovers & Associates, Inc. NM

Date: December 27, 2012

General Information:

5 samples were analyzed for SM 2540C. 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.

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.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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





ANALYTICAL RESULTS

Project: WILMUTH NO 1 Pace Project No.: 60135324

Sample: GW-074937-121212-CM-Lab ID: 60135324001 Collected: 12/12/12 14:20 Received: 12/13/12 08:30 Matrix: Water

927 mg/L

MW-1

Total Dissolved Solids

Report Results Units Limit MDL DF Prepared CAS No. **Parameters** Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 979 ug/L 5.0 0.60 12/19/12 14:45 12/26/12 15:56 7439-96-5 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0





ANALYTICAL RESULTS

Project: WILMUTH NO 1
Pace Project No.: 60135324

Sample: GW-074937-121212-CM- Lab ID: 60135324002 Collected: 12/12/12 13:50 Received: 12/13/12 08:30 Matrix: Water

709 mg/L

MW-2

Total Dissolved Solids

Report Results Units Limit MDL DF Prepared CAS No. **Parameters** Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1110 ug/L 5.0 0.60 12/19/12 14:45 12/26/12 16:09 7439-96-5 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0

Lenexa, KS 66219 (913)599-5665



ANALYTICAL RESULTS

Project: WILMUTH NO 1 Pace Project No.: 60135324

Sample: GW-074937-121212-CM-Lab ID: 60135324003 Collected: 12/12/12 13:40 Received: 12/13/12 08:30 Matrix: Water

709 mg/L

MW-3

Total Dissolved Solids

Report Results Units Limit MDL DF Prepared CAS No. **Parameters** Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1570 ug/L 5.0 0.60 12/19/12 14:45 12/26/12 16:13 7439-96-5 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0





ANALYTICAL RESULTS

Project: WILMUTH NO 1 Pace Project No.: 60135324

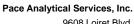
Sample: GW-074937-121212-CM-Lab ID: 60135324004 Collected: 12/12/12 14:40 Received: 12/13/12 08:30 Matrix: Water

731 mg/L

Total Dissolved Solids

MW-4 Report Results Units Limit MDL DF Prepared CAS No. **Parameters** Analyzed Qual 6010 MET ICP, Dissolved Analytical Method: EPA 6010 Preparation Method: EPA 3010 Manganese, Dissolved 1420 ug/L 5.0 0.60 12/19/12 14:45 12/26/12 16:16 7439-96-5 2540C Total Dissolved Solids Analytical Method: SM 2540C

5.0



CAS No.

Analyzed

9608 Loiret Blvd. Lenexa, KS 66219 (913)599-5665

Qual



ANALYTICAL RESULTS

Project: WILMUTH NO 1
Pace Project No.: 60135324

Parameters

Sample: GW-074937-121212-CM- Lab ID: 60135324005 Collected: 12/12/12 13:45 Received: 12/13/12 08:30 Matrix: Water

Limit

DUP

Report

MDL

DF

Prepared

2540C Total Dissolved Solids Analytical Method: SM 2540C

Results

Total Dissolved Solids **717** mg/L 5.0 5.0 1 12/18/12 12:03

Units



QUALITY CONTROL DATA

Project: WILMUTH NO 1

Pace Project No.: 60135324

QC Batch: MPRP/20910 Analysis Method: EPA 6010

QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved

Associated Lab Samples: 60135324001, 60135324002, 60135324003, 60135324004

METHOD BLANK: 1117297 Matrix: Water

Associated Lab Samples: 60135324001, 60135324002, 60135324003, 60135324004

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Manganese, Dissolved ug/L ND 5.0 12/26/12 15:46

LABORATORY CONTROL SAMPLE: 1117298

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Manganese, Dissolved ug/L 1000 1010 101 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1117299 1117300

MS MSD

60135324001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Manganese, Dissolved 1000 1950 1920 75-125 20 ug/L 979 1000 97



QUALITY CONTROL DATA

Project: WILMUTH NO 1

Pace Project No.: 60135324

QC Batch: WET/38853 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 60135324001, 60135324002, 60135324003, 60135324004, 60135324005

METHOD BLANK: 1116277 Matrix: Water

Associated Lab Samples: 60135324001, 60135324002, 60135324003, 60135324004, 60135324005

Blank Reporting

Parameter Units Result Limit Analyzed Qualifiers

Total Dissolved Solids mg/L ND 5.0 12/18/12 11:59

SAMPLE DUPLICATE: 1116278

Parameter Units 60135274001 Dup Max Result RPD Qualifiers
Total Dissolved Solids mg/L 449 430 4 17

SAMPLE DUPLICATE: 1116279

60135336001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers **Total Dissolved Solids** 2040 17 2020 1 mg/L

Date: 12/27/2012 03:52 PM



QUALIFIERS

Project: WILMUTH NO 1
Pace Project No.: 60135324

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.

Date: 12/27/2012 03:52 PM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WILMUTH NO 1
Pace Project No.: 60135324

Date: 12/27/2012 03:52 PM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|--------------------------|-----------------|------------|-------------------|---------------------|
| 60135324001 | GW-074937-121212-CM-MW-1 | EPA 3010 | MPRP/20910 | EPA 6010 | ICP/16950 |
| 60135324002 | GW-074937-121212-CM-MW-2 | EPA 3010 | MPRP/20910 | EPA 6010 | ICP/16950 |
| 60135324003 | GW-074937-121212-CM-MW-3 | EPA 3010 | MPRP/20910 | EPA 6010 | ICP/16950 |
| 60135324004 | GW-074937-121212-CM-MW-4 | EPA 3010 | MPRP/20910 | EPA 6010 | ICP/16950 |
| 60135324001 | GW-074937-121212-CM-MW-1 | SM 2540C | WET/38853 | | |
| 60135324002 | GW-074937-121212-CM-MW-2 | SM 2540C | WET/38853 | | |
| 60135324003 | GW-074937-121212-CM-MW-3 | SM 2540C | WET/38853 | | |
| 60135324004 | GW-074937-121212-CM-MW-4 | SM 2540C | WET/38853 | | |
| 60135324005 | GW-074937-121212-CM-DUP | SM 2540C | WET/38853 | | |



Sample Condition Upon Receipt ESI Tech Spec Client



| Client Name: CoP CA NM | | | | Optional |
|--|-------------------|------------------------|---------------------|---|
| Courier: Fed Ex V UPS USPS Client | Commercial | Pace □ Oth | er 🗆 | Proj Due Date: 12/26 |
| Tracking #: | Pace Shipping Lab | bel Used? Yes | □ No ⁄⁄2 | Proj Name: |
| Custody Seal on Cooler/Box Present: Yes Mo | □ Seals intact | ∷ Yes 🗷 No | | |
| Packing Material: Bubble Wrap D Bubble Ba | ags □ Fo | am □ Nor | ne Other | |
| Thermometer Used: (-19) / T-194 T | | | Samples received of | n ice, cooling process has begun. |
| Cooler Temperature: 0-6 | (| (circle one) | Date and initi | als of person examining |
| Temperature should be above freezing to 6°C | | T | contents | 12/13/12 1200 |
| Chain of Custody present: | Yes No O | N/A 1. | | |
| Chain of Custody filled out: | Yes No DI | N/A 2. | | |
| Chain of Custody relinquished: | ØYes □No □ | N/A 3. | | |
| Sampler name & signature on COC: | Yes No 🗆 | N/A 4. | | |
| Samples arrived within holding time: | ✓ Yes □No □ | N/A 5. | | |
| Short Hold Time analyses (<72hr): | □Yes ♥No □ | N/A 6. | | A |
| Rush Turn Around Time requested: | □Yes ØNo □ | N/A 7. | | 71 |
| Sufficient volume: | ØYes □No □ | N/A 8. | | |
| Correct containers used: | ☑Yes □No □ | N/A | | |
| Pace containers used: | / Styles No | N/A 9 | | |
| | ∀ZiYes □No □ | | | |
| Containers intact: | '□Yes □No 😕 | | | |
| Unpreserved 5035A soils frozen w/in 48hrs? | | | | |
| Filtered volume received for dissolved tests? | Yes No A | | | |
| Sample labels match COC: | ØYes □No □ | | | |
| The state of the s | weter | 13. | | |
| All containers needing preservation have been checked. | □Yes □No 💆 | PN/A | | |
| All containers needing preservation are found to be in compliance with EPA recommendation. | □Yes □No 💆 | ^{]N/A} 14. | | |
| Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics | Yes □No | Initial when completed | / | t # of added eservative |
| Trip Blank present: | □Yes □No 💆 | | | |
| Pace Trip Blank lot # (if purchased): | | 15. | | |
| Headspace in VOA vials (>6mm): | □Yes □No 💆 | ÎN/A | | |
| | , | 16. | | |
| Project sampled in USDA Regulated Area: | □Yes □No 💆 | N/A 4.7. List Sta | ite: | |
| | | /// | eld Data Required? | Y / N |
| | | | Temp | Log: Record start and finish times |
| Person Contacted: Comments/ Resolution: | Date/Time: | | | inpacking cooler, if >20 min, k sample temps: |
| Comments/ Resolution. | | | Start: | Start: |
| | | I in | End: | End: |
| Project Manager Review: | | Date: | Temp | : Temp: |

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

| Section A | Section B | Section C | Page: of |
|---|---|--|--|
| Ē | Required Project Information, | lorn, | |
| Cumpany: COP CRA NNi | Report To: Christine Mathews | Attention: ENFOS | |
| Address 6121 Indian School Rd NE, Ste 200 | Copy To Kelly Blanchard, Angela Bown, Cassie Brown | Сотрапу Name: | REGULATORY AGENCY |
| Albequerque, NM 87110 | | Address: | L' NPDES L' GROUND WATER L' DRINKING WATER |
| Email To: cmathews@craworld.com | Purchase Order No.: | Pace Quote Retreance | F UST F RCRA COTHER |
| Phone (505)884-0672 Fax: (505)884-4932 | Project Name: Wilmuth No 1 | Parce Project Alice Flanagan | Site Location |
| Requested Due Date/TAT: standard | Project Number: 074937 | Pace Profile #: 5514, 4 | STATE: |
| | | Ties. | Requested Analysis Filtered (Y/N) |
| Section D Valid Matrix Codes | (fle!: | Preservatives S | |
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| ADDITIONAL COMMENTS | RELINGINSHED BY / AFFILIATION DATE | |) ime |
| P | / DELIGHTEN MONTON /CR. 12-12-1 | 2 530 MW. Mrs (Mrs | 12/13/12 B30 0.6 7 7 |
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| ka | SAMPLER NAME AND SIGNATURE | TURE C | (N/V) |
| ge | PRINT Name of SAMPLER: | SECTION TOWN | emp ir |
| 17 | SIGNATURE of SAMPLER: | ER: CLUCK (MANDONY): | C/2/2 1 |
| | And agreeing to late charges of 1.5% per morth for any months and agreeing to late charges of 1.5% per morth for any invoices not paid within 30 days | in fire any invoices not paid within 30 days. | F-ALL-Q-020rev.08, 12-Oct-2007 |
| | וון דמעס ווה בין אין אינון בין אין אינון אינו |) | |