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Mr. Randolph Bayliss, P. E.  
District III & IV Hydrologist  
New Mexico Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

March 21, 2017

**Re: NMOCD Case No. 3R-425, 2016 Annual Groundwater Monitoring Report**

Dear Mr. Bayliss:

Enclosed is the 2016 Annual Groundwater Monitoring Report for the San Juan 29-7 Unit 37 site. This report, prepared by GHD Services, Inc., contains the results of groundwater monitoring activities in 2016.

Please let me know if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joseph B. Crouch".

J. Brady Crouch

Enc



## **2016 Annual Groundwater Monitoring Report**

ConocoPhillips San Juan 29-7 Unit 37  
Rio Arriba County, New Mexico  
API# 30-039-07643  
NMOCD# 3R-425

ConocoPhillips Company

GHD | 6121 Indian School Rd NE Suite 200 Albuquerque NM 87110 USA  
075034| 5MN00| Report No 8 | March 21, 2017



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## 1. Introduction

This report presents the results of 2016 groundwater monitoring activities conducted on behalf of ConocoPhillips Company (ConocoPhillips) by GHD Services, Inc. (GHD) at the San Juan 29-7 Unit 37 natural gas well (Site). The Site is located within Unit Letter N, Section 12, Township 29N, Range 7W, Rio Arriba County, New Mexico (Latitude: 36.73552N; Longitude: 107.52488W) (Figure 1). This report summarizes the groundwater data that were collected during four quarterly events in 2016.

### 1.1 Site History

The Site is located on private land leased by ConocoPhillips. The well is currently operated by Burlington Resources Oil and Gas Company LP, a wholly owned subsidiary of ConocoPhillips. A Site detail map is included as Figure 2.

ConocoPhillips discovered a leaking inspection plate gasket on the above ground condensate tank on August 26, 2010. Approximately 23 barrels of condensate were released and fully contained within the berm; however, no liquids were recovered. The release was immediately reported to the New Mexico Oil Conservation Division (NMOCD) with a C-141 Release Notification and Corrective Action form, filed by ConocoPhillips on September 16, 2010.

Site characterization activities were conducted at the Site in 2010 and 2011 to delineate soil and groundwater impacted by a release that occurred from an above ground condensate tank. The Site characterization indicated hydrocarbon impacts from the release that exceeded New Mexico Water Quality Control Commission (NMWQCC) standards, including benzene, toluene and total xylenes in groundwater and total benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH) in the vadose zone soil. Soil impacts were delineated in the area of the release to a maximum depth of approximately 130 feet below ground surface (bgs). Groundwater was impacted in the immediate area of the release and extended to approximately 60 feet down gradient from the release. A total of 18 soil borings and eight monitoring wells have been utilized to characterize and monitor subsurface soil and groundwater conditions. Soil and groundwater impacts at the Site were treated in 2012 with a chemical oxidant.

### 1.2 Site Setting

The Site is located in Rio Arriba County, New Mexico, on privately owned ranch land. The elevation at the Site is approximately 6,292 feet above mean sea level (amsl).

The Tertiary aged San Jose Formation crops out as sandstone bluffs visible to the north and south of the Site and locally reaching an elevation of approximately 6,652 feet amsl.

Subsurface soils at the Site consist primarily of silts inter bedded with fine sands and clays. Groundwater is located at approximately 110 feet (ft) below ground surface (bgs) and locally flows towards the south southwest.



### 1.3 Summary of Previous Investigations

Following the discovery of the release, approximately 5,100 cubic yards (cy) of soil was excavated from the Site between September 24, 2010 and January 3, 2011. The excavation measured approximately 70 ft by 120 ft by 30 ft deep (Figure 2). The horizontal and vertical extent of the hydrocarbon impacted area was not completely determined at that time. For practical and safety reasons and due to limitations posed by surface structures, the southern extent of the excavation and the vertical extent of the excavation were halted at approximately 30 ft bgs. At completion of the excavation approximately 3,444 cy of hydrocarbon impacted soil had been removed and transported to the Industrial Ecosystems, Incorporated landfarm located in Aztec, New Mexico. The excavation was subsequently backfilled with clean soil.

To further delineate vertical impacts of the release, Tetra Tech Inc. sampled subsurface soils in the impacted area and in close proximity to the release point between January 12 and 14, 2011 (Site Details Map, Figure 2). Impacts were noted in the soil above the NMOCD recommended field screening level for organic vapors (100 parts per million (ppm)) from 30 ft bgs to the total depth of the soil boring at 129.5 ft bgs. All analytical results for soil samples collected from boring B-1 were below the NMOCD recommended remediation action levels (RRALs) with the exception of the sample collected from 30 to 32 ft bgs that had a total BTEX concentration and total TPH concentration exceeding the RRALs for total BTEX and TPH at 50 mg/kg and 100 mg/kg, respectively.

Analytical results from the groundwater sample collected from the open borehole, B 1, indicated BTEX in groundwater above the NMWQCC standard.

Tetra Tech advanced two additional soil borings, B-2 and B-3 (Figure 2), between February 28 and March 4, 2011, near the center of the previously excavated area and also installed monitoring wells, MW-1 through MW-4, at the Site.

Field screening of B-2 soil samples indicated soil impacts above the NMOCD RRAL of 100 ppm. The total BTEX concentration of 122.5 mg/kg also exceeded the NMOCD RRAL from 45 to 47 feet bgs in boring B-2.

Field screening of soil samples collected from B-3 showed no signs of hydrocarbon impacts to a total depth of 57 ft bgs. No samples were collected for laboratory analysis from B-3 since no hydrocarbon impacts were observed during field screening activities and groundwater was not encountered.

Monitoring well MW-1 was installed approximately 20 ft south of B-2 due to the elevated organic vapors encountered in B 2,. The analytical results for this well from the March 2011 groundwater sampling event indicated that only benzene was detected above the NMWQCC standard at a concentration of 0.066 mg/L. Three additional monitoring wells, MW-2, MW-3 and MW-4, were installed at the Site (Figure 2). None of these monitoring wells showed any detection of hydrocarbon constituents above the NMWQCC groundwater quality standards.

Eleven soil borings and four monitoring wells were installed by GHD at the Site from September 2011 to October 2011 to further evaluate Site conditions and to delineate areas for remediation (Figure 2). The network of monitoring wells now consisted of MW-1 and MW-8 within



the release area, MW-4 and MW-7 up gradient of the release area, and MW-2, MW-3, MW-5 and MW-6 down gradient of the release area.

Field screening of soil samples and laboratory results indicated impacts (organic vapors exceeding 100 ppm) in the immediate area of the release to depths ranging from 40 feet bgs to 110 feet bgs. Soil analytical results indicated Total BTEX and TPH above the NMOCD RRALs in four of the borings, B-4, B-5/MW-8, and B-8, which are located within the excavation area and one boring, B-10, located approximately 10 feet south of the excavation. In addition, soil boring B-6/MW-6 located approximately 60 feet southeast of the excavation indicated the TPH concentration above the NMOCD RRAL.

During this portion of the Site characterization, groundwater was encountered at approximately 110 feet bgs, which is consistent with groundwater levels encountered during previous phases of the site characterization. The groundwater flow direction was determined to be towards the south southwest. The analytical results for groundwater indicated that the benzene concentrations exceeded the NMWQCC standard at three locations (MW-1, MW-6 and MW-8). Toluene and total xylenes concentrations exceeded the standards at one location (MW-8).

For in situ site remediation activities, GHD retained DeepEarth Technologies, Inc. (DTI) to implement the Cool Ox™ Technology, a patented in situ process that uses a solution of calcium peroxide that generates a slow release of hydrogen peroxide and facilitates the oxidation of petroleum hydrocarbons.

From December 2011 to February 2012, the Cool Ox™ solution was injected in the area shown in Figure 2. DTI utilized a direct push technology (DPT) drill rig supported by DTI's mixing and injection trailer (the Deep Shot RigTM) to advance temporary 1.5 inch diameter injection points.

Approximately 52,889 gallons of solution were injected into the subsurface soil and groundwater using 93 injection points space approximately 8 feet in an approximate area of 5,950 square feet (70 feet x 85 feet) to treat approximately 8,815 yd<sup>3</sup> of impacted soil. The injection process generally began at 30 feet bgs and continued to the depth that was assessed during the investigative phase. The depth of vadose zone soil impacts that were delineated during the investigative phase varied from 40 feet bgs to top of groundwater, which was encountered at approximately 110 feet bgs. In addition to groundwater treatment using the direct push rig, approximately 8,000 gallons of the solution was directly injected into groundwater monitoring wells MW-1, MW-6, MW-7 and MW-8.

To evaluate the effectiveness of the Cool Ox™ treatment, subsurface soil and groundwater conditions were analyzed at the Site after the treatment. Groundwater samples were collected and analyzed on a quarterly basis (February 2012, June 2012, September 2012, and January 2013). The subsurface soil was sampled in the area of the Cool Ox™ treatment by advancing five soil borings in August 2012.

A more thorough discussion of the Cool Ox™ treatment site activities can be found in the April 2013 Conestoga Rovers and Associates Subsurface Remediation and Annual Groundwater Monitoring Report.



Monitoring well MW-8 was plugged and abandoned by National Exploration, Wells, and Production (EWP) of Peralta, New Mexico on July 16, 2013 because of damaged casing. National EWP installed a replacement monitoring well MW-8R directly adjacent to the MW-8 location.

## **2. Groundwater Monitoring Summary**

Groundwater sampling events were conducted at the Site on March 29, June 21, September 7, and December 2, 2016. Prior to collection of groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8R, depth to groundwater in each well was measured using an oil/water interface probe. Groundwater elevations are detailed in Table 1. Groundwater potentiometric surface maps from quarterly 2016 data are presented as Figures 3, 4, 5, and 6, respectively. The groundwater potentiometric surface elevations have been consistent with little variability by season and throughout the history of monitoring the wells at the Site. Generally, groundwater was encountered across the Site at approximately 108 feet bgs.

For all of these monitoring periods, the groundwater flow at the site was towards the south-southwest at an average 0.002 feet per foot gradient, consistent with historical results.

### **2.1 Groundwater Monitoring Methodology**

Prior to sampling, at least three well volumes were purged from Site monitoring wells with a Monsoon™ submersible pump or a dedicated, polyethylene, 1.5 inch disposable bailer. Purge water was placed in the on Site produced water tank. While purging each well, groundwater parameter data including temperature, pH, conductivity, dissolved oxygen, and oxidation reduction potential were collected using a multi parameter Sonde. Field parameters are summarized on Table 2. Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain of custody documentation to Pace Analytical Services, Inc. of Lenexa, KS for analysis.

Groundwater samples were analyzed for the presence of BTEX by EPA method 8260, dissolved manganese and selenium by EPA method 6010, nitrate (as nitrogen) by EPA method 353.2, sulfate by EPA method 300.0, and total dissolved solids (TDS) by method SM 2540C. A summary of analytical results is presented in Table 3. Completed groundwater laboratory analytical results are presented in Appendix A.

### **2.2 Groundwater Monitoring Analytical Results**

The NMWQCC regulates groundwater quality in New Mexico under 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.

A groundwater inorganic concentration map and a groundwater hydrocarbon concentration map are included as Figures 7 and 8, respectively. Groundwater concentrations above NMWQCC standards during the 2016 sampling events are discussed below:



### **Hydrocarbons**

- BTEX: Benzene in groundwater of monitoring well MW-8R was detected at concentrations above NMWQCC standards during all 2016 sampling events. Toluene and xylenes were detected in MW-8R above NMWQCC standards during the September 2016 monitoring event. No BTEX constituents were detected in groundwater above laboratory detection limits in any of the other Site wells during 2016.

### **Inorganics**

- TDS and sulfate were detected in groundwater of all Site monitoring wells at concentrations above NMWQCC standards during all 2016 sampling events, including in up-gradient monitoring well MW-4. Manganese was detected in groundwater of monitoring wells MW-1, MW-3, MW-5 and MW-8R for all or some of the 2016 sampling events. Nitrate was detected in groundwater of monitoring wells MW-2, MW-3, MW-6, MW-7 and MW-8R for all or some of the 2016 sampling events. Dissolved selenium was detected in groundwater of monitoring well MW-2 for four of the 2016 sampling events.

Both inorganic and BTEX constituents by quarter for 2016 are depicted on Figures 7 and 8. Complete laboratory analytical reports are also presented in Appendix A to this annual report.

## **3.**

## **Conclusions and Recommendations**

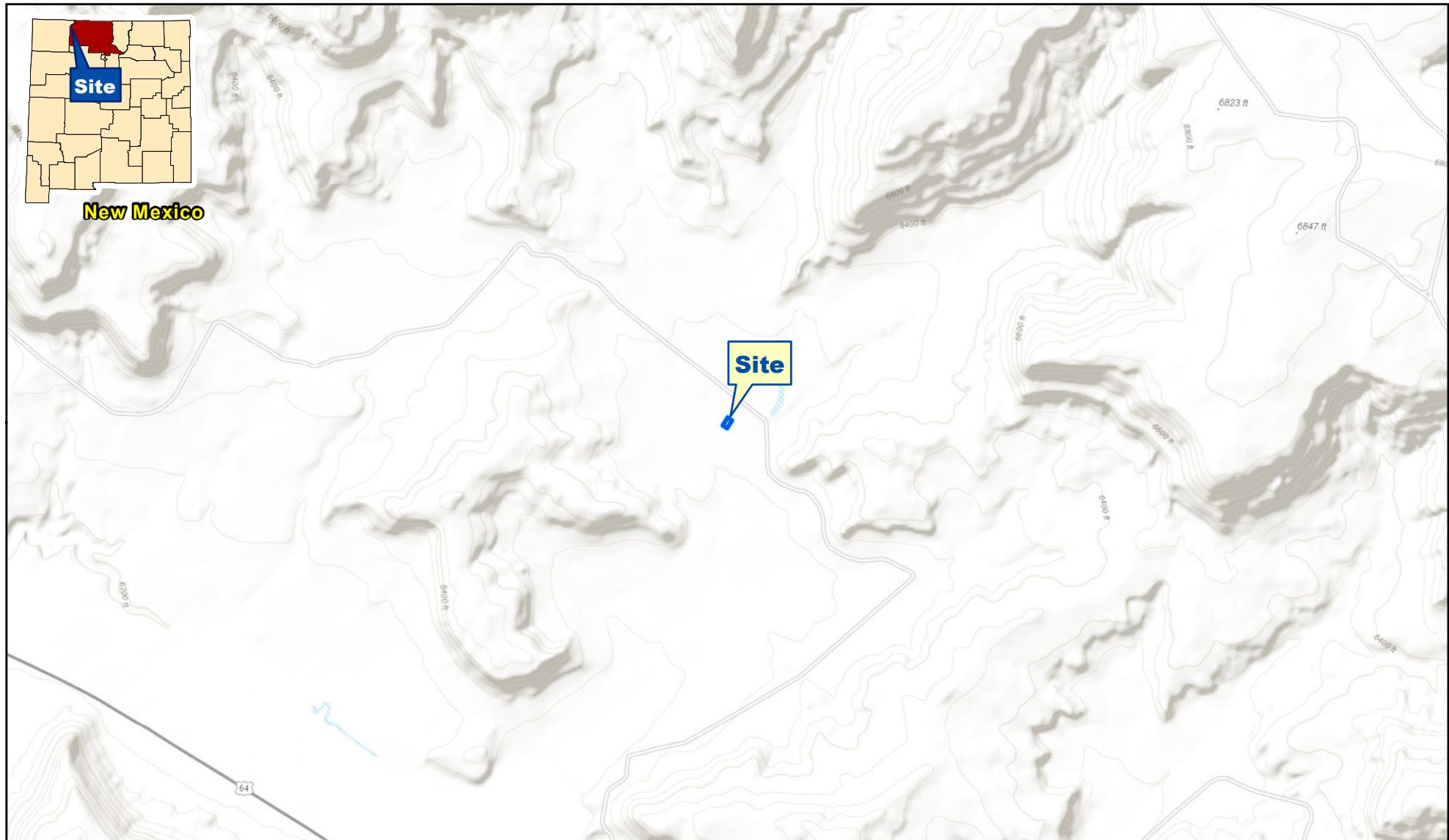
Groundwater samples collected from replacement monitoring well MW-8R continue to exceed NMWQCC standards for BTEX constituents. Groundwater samples from Site monitoring wells also continue to exceed NMWQCC standards for inorganic constituents including dissolved manganese, dissolved selenium, nitrate, sulfate, and TDS.

Monitoring well MW-4 is located up gradient of the hydrocarbon release area and therefore can be considered to represent background conditions. Sulfate and TDS concentrations in groundwater samples collected from this well consistently exceed NMWQCC standards. Sulfate and TDS concentrations in down gradient monitoring wells are within the same order of magnitude as the background concentrations.

All Site monitoring wells, with the exception of MW-8R, have displayed at least eight consecutive quarters of BTEX concentrations below the NMWQCC standards and therefore discontinuation of analysis for BTEX constituents in these wells is recommended.

BTEX constituents in monitoring wells downgradient from MW-8R (MWs-2,3,5 and 6) have not been detected in over 5 years and indicating the plume of BTEX in groundwater of MW-8R is stable and confined to the immediate vicinity of this well. This observation, coupled with the presence of inorganic constituents that are likely naturally occurring, ubiquitous throughout the San Juan Basin, it is recommended this Site be moved to annual sampling schedule for monitored natural attenuation.

## **Figures**



Source: ESRI World Topographic Maps.

0 1,000 2,000

Feet

Coordinate System:  
NAD 1983 UTM Zone 13N



CONOCOPHILLIPS COMPANY  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE  
UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO

Dec 23, 2015

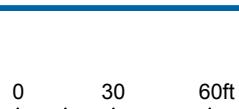
## VICINITY MAP

FIGURE 1



Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation

Lat/Long: 35.482687° North, 97.716997° West



Coordinate System:  
NAD 1983 StatePlane-  
Oklahoma North (US Feet)



CONOCOPHILLIPS COMPANY  
UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE

#### SITE DETAILS MAP

075034-00

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FIGURE 2



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Lat/Long: 35.482687° North, 97.716997° West



Coordinate System:  
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Oklahoma North (US Feet)



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SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE  
GROUNDWATER POTENTIOMETRIC  
SURFACE MAP - MARCH 2016

075034-00

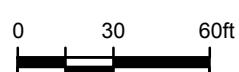
Feb 13, 2017

FIGURE 3



Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation

Lat/Long: 35.482687° North, 97.716997° West



Coordinate System:  
NAD 1983 StatePlane-  
Oklahoma North (US Feet)



CONOCOPHILLIPS COMPANY  
UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE  
**GROUNDWATER POTENTIOMETRIC  
SURFACE MAP - JUNE 2016**

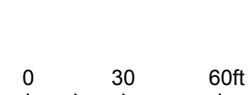
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Feb 13, 2017

**FIGURE 4**



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Coordinate System:  
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Oklahoma North (US Feet)



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UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE  
GROUNDWATER POTENTIOMETRIC SURFACE MAP -

Lat/Long: 35.482687° North, 97.716997° West

075034-00

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FIGURE 5



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Coordinate System:  
NAD 1983 StatePlane-  
Oklahoma North (US Feet)

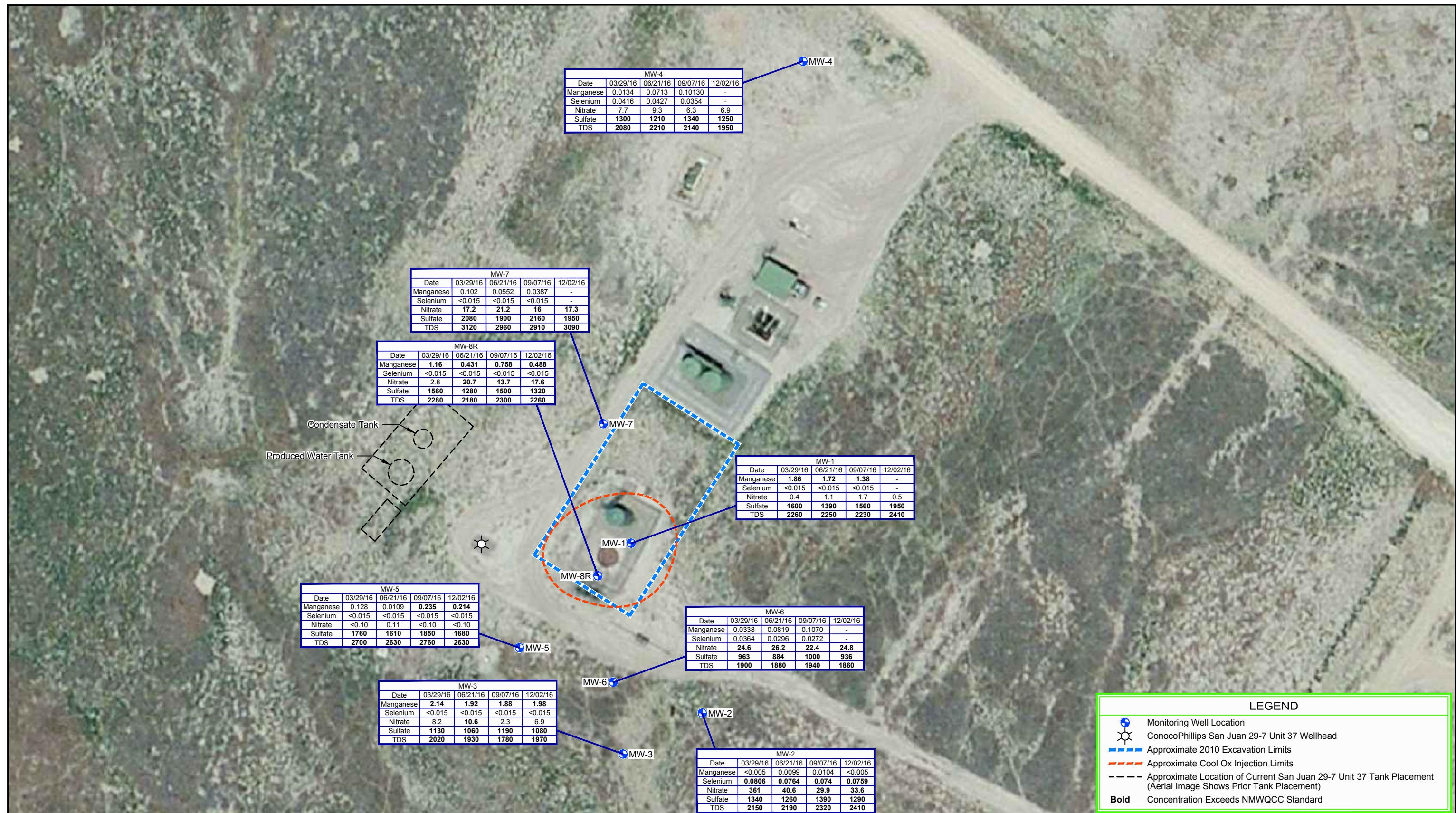


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UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE  
GROUNDWATER POTENTIOMETRIC SURFACE MAP -

075034-00

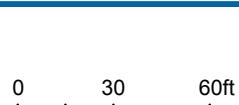
Feb 13, 2017

FIGURE 6



Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation

Lat/Long: 35.482687° North, 97.716997° West



#### NOTES:

- Analytical results reported in milligrams per liter (mg/L).
- Bold notation indicates a level that exceeds the New Mexico Water Quality Control Commission standard.



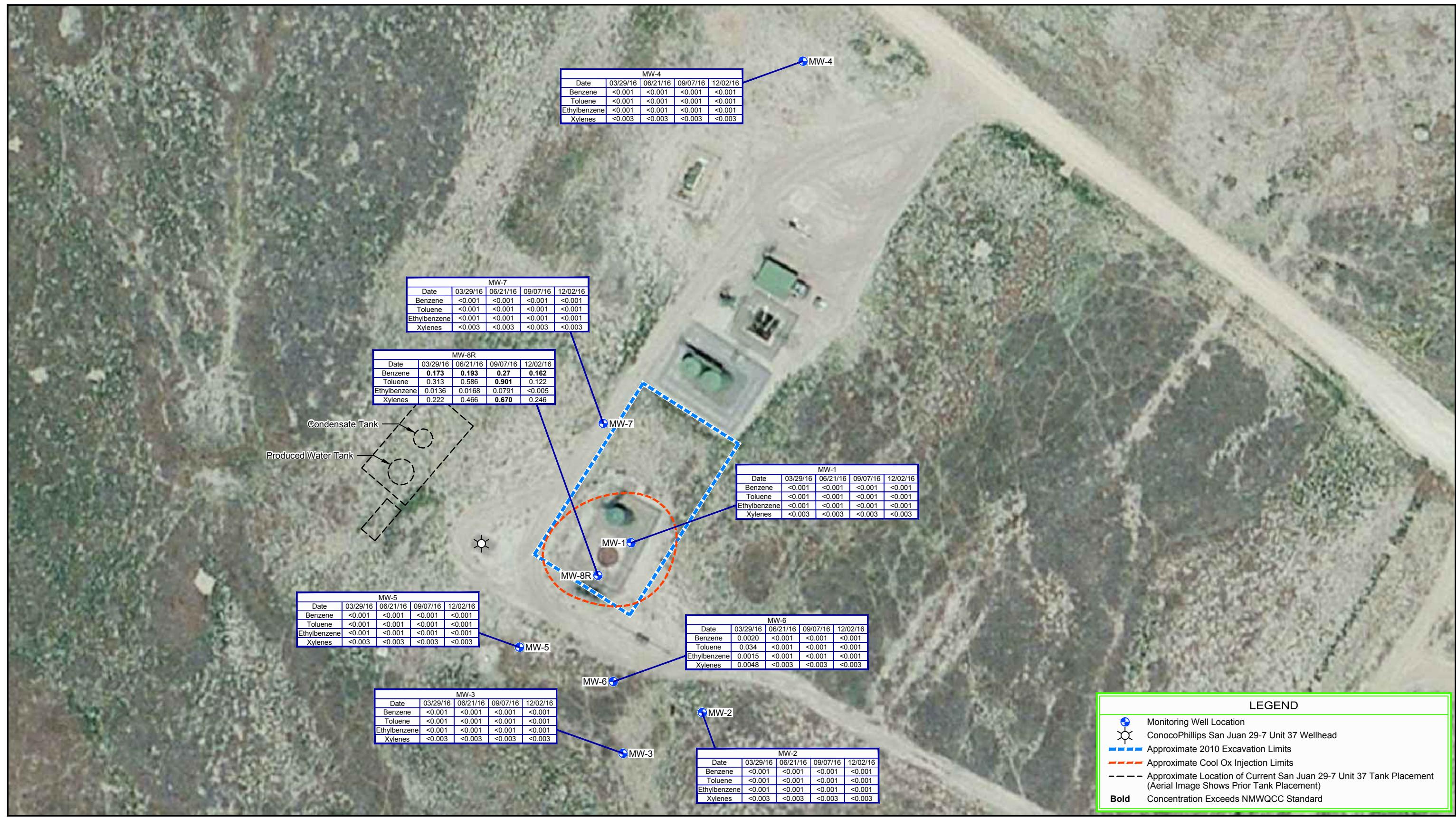
CONOCOPHILLIPS COMPANY  
UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE

GROUNDWATER INORGANIC ANALYTICAL RESULTS MAP

075034-00

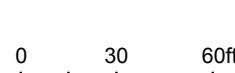
Feb 21, 2017

FIGURE 7



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Lat/Long: 35.482687° North, 97.716997° West



Coordinate System:  
NAD 1983 StatePlane-  
Oklahoma North (US Feet)

#### NOTES:

- Analytical results reported in milligrams per liter (mg/L).
- Bold notation indicates a level that exceeds the New Mexico Water Quality Control Commission standard.



CONOCOPHILLIPS COMPANY  
UNIT LETTER N. SEC 12, T29N, R07W, RIO ARRIBA COUNTY, NEW MEXICO  
SAN JUAN 29-7 UNIT 37, NATURAL GAS WELL SITE

075034-00

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GROUNDWATER HYDROCARBON ANALYTICAL RESULTS MAP

FIGURE 8

## **Tables**

Table 1

Monitoring Well Specifications and Groundwater Elevations  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>*TOC Elevation (ft)</b>	<b>Date Measured</b>	<b>Depth to Groundwater (ft-below TOC)</b>	<b>Groundwater Elevation (ft)</b>
MW-1	189.24	3/17/2011	108.91	80.33
		8/17/2011	108.81	80.43
		10/18/2011	108.87	80.37
		2/23/2012	108.74	80.50
		6/5/2012	108.75	80.49
		9/18/2012	108.68	80.56
		1/8/2013	108.62	80.62
		3/26/2013	108.69	80.55
		6/11/2013	108.81	80.43
		9/10/2013	109.04	80.2
		1/7/2014	109.26	79.98
		3/18/2014	109.10	80.14
		6/16/2014	109.31	79.93
		9/25/2014	109.54	79.70
		12/16/2014	109.59	79.65
		3/17/2015	109.61	79.63
		6/16/2015	109.68	79.56
		9/15/2015	109.62	79.62
		12/1/2015	109.78	79.46
		3/29/2016	109.61	79.63
		6/21/2016	109.89	79.35
		9/7/2016	109.87	79.37
		11/30/2016	109.89	79.35
MW-2	189.6	3/17/2011	109.20	80.40
		8/17/2011	109.10	80.50
		10/18/2011	109.13	80.47
		2/23/2012	109.05	80.55
		6/5/2012	109.10	80.50
		9/18/2012	109.28	80.32
		1/8/2013	109.07	80.53
		3/26/2013	109.12	80.48
		6/11/2013	109.32	80.28
		9/10/2013	109.32	80.28
		1/7/2014	109.71	79.89
		3/18/2014	109.71	79.89
		6/16/2014	109.83	79.77
		9/16/2014	109.94	79.66
		12/16/2014	110.04	79.56
		3/17/2015	110.09	79.51
		6/16/2015	110.17	79.43
		9/15/2015	110.14	79.46
		12/1/2015	110.23	79.37
		3/29/2016	110.26	79.34
		6/21/2016	110.31	79.29
		9/7/2016	110.33	79.27
		11/30/2016	110.39	79.21

Table 1

Monitoring Well Specifications and Groundwater Elevations  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>*TOC Elevation (ft)</b>	<b>Date Measured</b>	<b>Depth to Groundwater (ft-below TOC)</b>	<b>Groundwater Elevation (ft)</b>
MW-3	189.13	3/17/2011	109.42	79.71
		8/17/2011	109.35	79.78
		10/18/2011	109.37	79.76
		2/23/2012	109.26	79.87
		6/5/2012	109.28	79.85
		9/18/2012	109.3	79.83
		1/8/2013	109.28	79.85
		3/26/2013	109.33	79.80
		6/11/2013	109.41	79.72
		9/10/2013	109.58	79.55
		1/7/2014	109.7	79.43
		3/18/2014	109.68	79.45
		6/16/2014	109.84	79.29
		9/16/2014	109.97	79.16
		12/16/2014	110.08	79.05
		3/17/2015	110.03	79.10
		6/16/2015	110.08	79.05
		9/15/2015	110.08	79.05
		12/1/2015	110.24	78.89
		3/29/2016	110.04	79.09
		6/21/2016	110.15	78.98
		9/7/2016	110.27	78.86
		11/30/2016	110.26	78.87
MW-4	197.6	3/17/2011	111.11	86.49
		8/17/2011	111.10	86.50
		10/18/2011	111.16	86.44
		2/23/2012	111.14	86.46
		6/5/2012	111.20	86.40
		9/18/2012	111.12	86.48
		1/8/2013	111.14	86.46
		3/26/2013	111.23	86.37
		6/11/2013	111.41	86.19
		9/10/2013	111.47	86.13
		1/7/2014	111.66	85.94
		3/18/2014	111.60	86.00
		6/16/2014	111.68	85.92
		9/25/2014	111.77	85.83
		12/16/2014	111.80	85.80
		3/17/2015	111.77	85.83
		6/16/2015	111.78	85.82
		9/15/2015	111.76	85.84
		12/1/2015	111.89	85.71
		3/29/2016	111.92	85.68
		6/21/2016	111.95	85.65
		9/7/2016	111.33	86.27
		11/30/2016	112.03	85.57

Table 1

Monitoring Well Specifications and Groundwater Elevations  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>*TOC Elevation (ft)</b>	<b>Date Measured</b>	<b>Depth to Groundwater (ft-below TOC)</b>	<b>Groundwater Elevation (ft)</b>
MW-5	188.7	10/18/2011	118.05	70.65
		2/23/2012	108.44	80.26
		6/5/2012	108.38	80.32
		9/18/2012	108.11	80.59
		1/8/2013	108.36	80.34
		3/26/2013	108.72	79.98
		6/11/2013	108.56	80.14
		9/10/2013	108.77	79.93
		1/7/2014	108.91	79.79
		3/18/2014	108.91	79.79
		6/16/2014	109.01	79.69
		9/16/2014	109.2	79.5
		12/16/2014	109.22	79.48
		3/17/2015	109.25	79.45
		6/16/2015	109.33	79.37
		9/15/2015	109.37	79.33
		12/1/2015	109.37	79.33
		3/29/2016	109.38	79.32
		6/21/2016	109.63	79.07
		9/7/2016	109.58	79.12
		11/30/2016	109.54	79.16
MW-6	188.03	10/18/2011	109.55	78.48
		2/23/2012	108.01	80.02
		6/5/2012	108.05	79.98
		9/18/2012	108.06	79.97
		1/8/2013	108.07	79.96
		3/26/2013	108.09	79.94
		6/11/2013	108.25	79.78
		9/10/2013	108.43	79.6
		1/7/2014	108.70	79.33
		3/18/2014	108.70	79.33
		6/16/2014	108.85	79.18
		9/16/2014	108.99	79.04
		12/16/2014	109.10	78.93
		3/17/2015	109.14	78.89
		6/16/2015	109.23	78.80
		9/15/2015	109.20	78.83
		12/1/2015	109.30	78.73
		3/29/2016	109.34	78.69
		6/21/2016	108.58	79.45
		9/7/2016	109.47	78.56
		11/30/2016	109.51	78.52

Table 1

Monitoring Well Specifications and Groundwater Elevations  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>*TOC Elevation (ft)</b>	<b>Date Measured</b>	<b>Depth to Groundwater (ft-below TOC)</b>	<b>Groundwater Elevation (ft)</b>
MW-7	189.93	10/18/2011	119.70	70.23
		2/23/2012	106.58	83.35
		6/5/2012	107.95	81.98
		9/18/2012	108.1	81.83
		1/8/2013	108.13	81.8
		3/26/2013	108.24	81.69
		6/11/2013	108.45	81.48
		9/10/2013	108.64	81.29
		1/7/2014	108.80	81.13
		3/18/2014	108.83	81.10
		6/16/2014	108.96	80.97
		9/25/2014	109.1	80.83
		12/16/2014	109.13	80.80
		3/17/2015	109.12	80.81
		6/16/2015	109.14	80.79
		9/15/2015	109.07	80.86
		12/1/2015	109.15	80.78
		3/29/2016	109.23	80.70
		6/21/2016	109.39	80.54
		9/7/2016	109.42	80.51
		11/30/2016	109.51	80.42
MW-8	189.86	10/19/2011	--	--
		2/23/2012	108.71	81.15
		6/5/2012	108.65	81.21
		9/20/2012	108.64	81.22
		1/8/2013	108.56	81.30
		3/26/2013	108.63	81.23
		6/11/2013	108.85	81.01
		7/13/2013	Plugged and Abandoned	
MW-8R	--	9/10/2013	108.39	--
		1/7/2014	108.65	--
		3/18/2014	108.62	--
		6/16/2014	108.77	--
		9/25/2014	108.91	--
		12/16/2014	108.95	--
		3/17/2015	109.00	--
		6/16/2015	109.12	--
		9/15/2015	109.01	--
		12/1/2015	109.18	--
		3/29/2016	109.12	--
		6/21/2016	109.32	--
		9/7/2016	109.31	--
		11/30/2016	109.26	--

Notes:

ft = Feet

TOC = Top of Casing

\* = Elevation relative to an arbitrary 200 feet

Table 2

Field Parameters Summary  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)
MW-1	3/17/2015	18.10	7.28	2.200	3380	--	53.0	2.75
	6/16/2015	17.70	7.30	1.970	3030	1.39	-12.4	7.00
	9/15/2015	16.12	7.13	2.212	3403	1.09	50.2	7.00
	12/1/2015	16.63	7.72	2.361	3632	1.08	-100.5	6.50
	3/29/2016	16.64	7.22	2.100	3350	4.20	126.0	7.00
	6/21/2016	17.10	7.44	--	3320	0.46	6.5	7.00
	9/7/2016	16.31	7.34	2.139	3290	0.56	-66.0	6.75
	12/1/2016	12.71	7.55	--	2989	5.29	23.5	7.00
MW-2	3/17/20015	14.80	7.30	2.200	3430	--	165.0	5.00
	6/16/2015	14.90	6.91	1.925	2961	6.23	25.2	5.25
	9/15/2015	14.62	6.99	2.162	3327	6.27	75.5	3.75
	12/1/2015	13.50	7.61	2.277	3504	5.27	80.8	5.25
	3/29/2016	--	--	--	--	--	--	5.25
	6/21/2016	15.40	7.38	--	2850	0.56	-121.6	5.25
	9/7/2016	13.96	6.98	2.064	3175	6.37	60.7	5.25
	12/1/2016	13.33	7.92	--	2932	7.31	29.7	5.00
MW-3	3/17/2015	15.10	7.45	1.900	3040	--	-94.0	5.50
	6/16/2015	15.09	7.31	1.717	2641	1.23	-123.5	5.50
	9/15/2015	15.03	7.30	1.912	2941	1.39	-125.0	5.75
	12/1/2015	13.73	7.78	2.044	3144	1.48	-164.2	5.50
	3/29/2016	15.82	7.34	1.900	2940	5.66	-103.0	5.75
	6/21/2016	14.70	7.00	--	3230	4.62	56.2	5.50
	9/7/2016	14.55	7.10	1.816	2794	1.50	-102.7	5.50
	12/1/2016	14.91	7.74	--	2556	1.97	-116.2	5.50
MW-4	3/17/2015	16.30	7.43	2.000	3120	--	125.0	3.00
	6/16/2015	14.68	7.38	1.760	2707	6.38	13.6	5.75
	9/15/2015	14.75	6.99	1.980	3047	7.23	48.3	5.75
	12/1/2015	14.57	7.89	1.451	2231	5.92	-12.2	5.50
	3/29/2016	16.94	7.33	1.900	3030	7.71	110.0	5.50
	6/21/2016	15.30	7.62	--	2980	4.10	58.9	5.50
	9/7/2016	14.52	7.50	1.919	2953	6.36	65.1	5.75
	12/2/2016	12.48	7.81	--	2688	9.18	76.9	5.50

Table 2

**Field Parameters Summary**  
**ConocoPhillips Company**  
**San Juan 29-7 Unit 37**  
**Rio Arriba County, New Mexico**

Well ID	Sample Date	Temperature (°C)	pH	TDS (g/L)	Conductivity (µS/cm)	DO (mg/L)	ORP (mV)	Volume (gallons)
MW-5	3/17/2015	18.00	6.80	2.400	3790	--	87.0	3.50
	6/16/2015	17.17	6.49	2.174	3345	2.36	63.2	5.00
	9/15/2015	16.10	6.64	2.468	3796	1.97	64.7	5.00
	12/1/2015	15.73	7.10	2.603	4004	2.66	168.2	5.00
	3/29/2016	19.44	6.87	2.400	3750	3.01	66.0	5.00
	6/21/2016	18.00	6.68	--	3660	0.92	91.1	5.00
	9/7/2016	15.71	6.89	2.331	3586	3.99	55.4	5.00
	12/1/2016	16.15	7.40	--	3266	3.55	22.4	5.00
MW-6	3/17/2015	17.30	6.90	1.800	2800	--	103.0	3.25
	6/16/2015	17.77	6.73	1.584	2437	2.12	1.9	4.00
	9/15/2015	15.96	6.57	1.784	2745	2.87	84.3	3.75
	12/1/2015	16.18	7.32	1.867	2873	2.93	82.9	3.75
	3/29/2016	16.64	6.77	1.700	2630	4.89	103.0	3.75
	6/21/2016	17.00	7.11	--	27	3.86	59.8	4.25
	9/7/2016	16.48	7.00	1.676	2578	1.87	8.7	3.75
	12/2/2016	12.07	7.29	--	2409	4.10	50.8	4.00
MW-7	3/17/2015	17.40	7.64	2.600	4100	--	118.0	3.50
	6/16/2015	17.05	8.28	2.366	3639	3.73	-48.2	6.25
	9/15/2015	16.47	7.66	2.663	4096	6.44	85.4	6.25
	12/1/2015	16.03	7.90	2.853	4389	2.00	-65.0	6.00
	3/29/2016	18.42	7.45	2.600	4050	7.12	108.0	6.25
	6/21/2016	16.40	7.50	--	3990	5.73	58.1	6.00
	9/7/2016	16.04	7.54	2.581	3970	6.15	59.2	6.00
	12/2/2016	14.19	7.57	--	3604	5.91	47.7	6.00
MW-8R	3/17/2015	19.30	6.96	2.100	3310	--	30.0	3.00
	6/16/2015	17.82	7.07	1.970	3033	0.48	-50.3	5.00
	9/15/2015	18.30	6.91	2.222	3431	1.20	-10.7	5.25
	12/1/2015	16.75	7.41	2.341	3595	1.08	-91.3	5.00
	3/29/2016	15.86	7.24	2.100	3340	4.49	-56.0	5.25
	6/21/2016	18.20	7.15	--	3230	0.18	-104.8	5.00
	9/7/2016	17.21	7.07	2.128	3274	0.53	-81.1	5.00
	12/1/2016	13.01	7.10	--	2930	2.36	39.6	5.00

Notes:

TDS = total dissolved solids

DO = dissolved oxygen

ORP = oxidation-reduction potential

Table 3

Groundwater Analytical Results Summary  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (total) (mg/L)</b>	<b>TPH-DRO (mg/L)</b>	<b>TPH-GRO (mg/L)</b>	<b>Manganese (dissolved) (mg/L)</b>	<b>Selenium (dissolved) (mg/L)</b>	<b>Nitrate (as N) (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Total Dissolved Solids (TDS) (mg/L)</b>	<b>Heterotrophic Plate Count (CFU/mL)</b>
<b>NMWQCC Standards</b>		<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	NE	NE	<b>0.2</b>	<b>0.05</b>	<b>10</b>	<b>600</b>	<b>1,000</b>	<b>NE</b>
MW-1	3/17/2011	<b>0.066</b>	0.39	0.011	0.084	0.28	1.5	<b>2.77</b>	< 0.01	<0.500	<b>1,610</b>	<b>2,730</b>	NA
	8/17/2011	<b>0.0189</b>	0.0068	< 0.001	0.0044	< 0.50	< 0.50	<b>0.318</b>	< 0.015	0.25	<b>1,500</b>	<b>2,480</b>	180,000
	10/18/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300,000
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>6.40</b>	<b>0.055</b>	0.78	<b>1,710</b>	<b>2,480</b>	23,000
	6/5/2012	< 0.001	0.002	< 0.001	< 0.003	NA	NA	<b>5.15</b>	0.033	9.4	<b>1,520</b>	NA	93,000
	6/5/2012 (DUP)	< 0.001	0.002	< 0.001	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.60</b>	0.044	<b>27.5</b>	<b>1,070</b>	<b>2,140</b>	>80000
	9/18/2012 (DUP)	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	NA	NA	NA	NA	NA	>80,000
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.10</b>	<b>0.568</b>	<b>25.3</b>	<b>1,150</b>	<b>2,180</b>	76,000
	1/8/2013 (DUP)	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	NA	NA	NA	NA	NA	142,000
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.49</b>	<b>0.079</b>	<b>37</b>	<b>1,000</b>	<b>1,980</b>	280,000
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.52</b>	<b>0.056</b>	<b>31.1</b>	<b>1,050</b>	NA	81,500
	6/11/2013 (DUP)	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.164	0.0492	<b>18.7</b>	<b>1,130</b>	<b>2,090</b>	2,300
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.132	0.0349	<b>22.5</b>	<b>1,040</b>	<b>1,990</b>	335,000
	3/18/2014	0.0036	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.643</b>	< 0.015	<b>20.1</b>	<b>1,170</b>	<b>2,270</b>	6,700
	6/16/2014	NA	NA	NA	NA	NA	NA	<b>1.200</b>	< 0.015	5.7	<b>1,380</b>	<b>2,300</b>	NA
	9/25/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.570</b>	< 0.015	4.4	<b>1,690</b>	NA	NA
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.49</b>	< 0.015	2.9	<b>1,580</b>	<b>2,410</b>	NA
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.60</b>	< 0.015	3.4	<b>1,430</b>	<b>2,560</b>	NA
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.36</b>	< 0.015	2.5	<b>1,470</b>	<b>1,920</b>	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.52</b>	< 0.015	2.8	<b>1,500</b>	<b>2,400</b>	NA
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.76</b>	< 0.015	1.2	<b>1,420</b>	<b>2,370</b>	NA
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.86</b>	< 0.015	0.4	<b>1,600</b>	<b>2,260</b>	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.72</b>	< 0.015	1.1	<b>1,390</b>	<b>2,250</b>	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.38</b>	< 0.015	1.7	<b>1,560</b>	<b>2,230</b>	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	--	--	0.5	<b>1,450</b>	<b>2,410</b>	NA

Table 3

Groundwater Analytical Results Summary  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (total) (mg/L)</b>	<b>TPH-DRO (mg/L)</b>	<b>TPH-GRO (mg/L)</b>	<b>Manganese (dissolved) (mg/L)</b>	<b>Selenium (dissolved) (mg/L)</b>	<b>Nitrate (as N) (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Total Dissolved Solids (TDS) (mg/L)</b>	<b>Heterotrophic Plate Count (CFU/mL)</b>
	<b>NMWQCC Standards</b>	<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	<b>NE</b>	<b>NE</b>	<b>0.2</b>	<b>0.05</b>	<b>10</b>	<b>600</b>	<b>1,000</b>	<b>NE</b>
MW-2	3/17/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.11	< 0.1	<b>0.334</b>	<b>0.0664</b>	<b>55.8</b>	<b>1,000</b>	<b>2950</b>	NA
	8/17/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	< 0.50	0.179	<b>0.0726</b>	71.9 E / 54.1	<b>1,040</b>	<b>2110</b>	61,000
	10/18/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	124,000
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0360	<b>0.059</b>	44.9	1,350	2,220	14,900
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0078	<b>0.061</b>	4.3	1,500	NA	32,000
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0194	<b>0.067</b>	42.5	1,150	2,440	6,500
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0057	<b>0.0688</b>	41.8	1,230	2,590	29,000
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0188	<b>0.0728</b>	43.3	1,200	1,930	4,100
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0086	<b>0.0666</b>	40.6	1,230	NA	18,000
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	< 0.0050	<b>0.0657</b>	35.6	1,200	2,210	160
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0069	<b>0.0745</b>	33.5	1,300	2,390	2,435
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.281</b>	<b>0.080</b>	40.2	1,320	2,580	670
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.09	<b>0.073</b>	22.2	1,280	2,360	NA
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.783</b>	<b>0.0734</b>	34	1,140	2,440	NA
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.746</b>	<b>0.0715</b>	31.0	1,380	2,360	NA
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0195	<b>0.0774</b>	38.3	1,330	2,570	NA
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0703	<b>0.0776</b>	32.7	1,310	1,840	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	< 0.005	<b>0.0811</b>	37.4	1,310	2,360	NA
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0144	<b>0.0779</b>	34.7	1,250	2,840	NA
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	< 0.005	<b>0.0806</b>	36.1	1,340	2,150	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0099	<b>0.0764</b>	40.6	1,260	2,190	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0104	<b>0.074</b>	29.9	1,390	2,320	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	< 0.005	<b>0.0759</b>	33.6	1,290	2,410	NA
MW-3	3/17/2011	< 0.001	0.013	< 0.001	0.0042	< 0.1	< 0.1	<b>1.79</b>	0.0316	<b>29.7</b>	<b>857</b>	<b>2360</b>	NA
	8/17/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	< 0.50	<b>1.42</b>	<b>0.0524</b>	33.0	<b>972</b>	<b>1960</b>	18,000
	10/18/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230,000
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.600</b>	0.038	22.0	1,140	2,050	11,900
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.43</b>	0.048	<b>15.0</b>	1,380	NA	22,000
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	1.24	0.032	12.2	1,050	2,150	23,000
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.62</b>	<b>0.0673</b>	<b>24.6</b>	1,140	2,240	51,000
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.83</b>	< 0.015	0.42	<b>1,080</b>	<b>2,030</b>	70
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.75</b>	< 0.015	0.76	<b>1,110</b>	NA	830
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.7</b>	< 0.015	1.4	<b>1,120</b>	<b>1,910</b>	110
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.77</b>	< 0.015	0.15	<b>1,180</b>	<b>1,970</b>	284
	1/7/2014 (DUP)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	350
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.81</b>	< 0.015	0.11	<b>1,150</b>	<b>2,050</b>	870
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2</b>	0.024	8.8	<b>1,130</b>	<b>1,190</b>	NA
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.29</b>	0.0261	<b>11.3</b>	<b>1,060</b>	<b>2,240</b>	NA
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.06</b>	< 0.015	6.1	<b>1,210</b>	<b>2,110</b>	NA
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.06</b>	< 0.015	4.3	<b>1,150</b>	<b>2,100</b>	NA
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.88</b>	< 0.015	6	<b>1,120</b>	<b>1,380</b>	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.1</b>	< 0.015	8.1	<b>1,120</b>	<b>2,040</b>	NA
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.17</b>	< 0.015	7.2	<b>1,040</b>	<b>2,210</b>	NA
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>2.14</b>	< 0.015	8.2	<b>1,130</b>	<b>2,020</b>	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.92</b>	< 0.015	<b>10.6</b>	<b>1,060</b>	<b>1,930</b>	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.88</b>	< 0.015	2.3	<b>1,190</b>	<b>1,780</b>	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.98</b>	< 0.015	6.9	<b>1,080</b>	<b>1,970</b>	NA

Table 3

Groundwater Analytical Results Summary  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (total) (mg/L)</b>	<b>TPH-DRO (mg/L)</b>	<b>TPH-GRO (mg/L)</b>	<b>Manganese (dissolved) (mg/L)</b>	<b>Selenium (dissolved) (mg/L)</b>	<b>Nitrate (as N) (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Total Dissolved Solids (TDS) (mg/L)</b>	<b>Heterotrophic Plate Count (CFU/mL)</b>
	<b>NMWQCC Standards</b>	<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	<b>NE</b>	<b>NE</b>	<b>0.2</b>	<b>0.05</b>	<b>10</b>	<b>600</b>	<b>1,000</b>	<b>NE</b>
MW-4	3/17/2011	< 0.001	< 0.001	< 0.001	< 0.001	0.14	< 0.1	0.022	0.042	10.4	1,290	2,650	NA
	8/17/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.50	< 0.50	0.0062	0.0402	9.4	1,240	2,000	9,800
	10/18/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90,000
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0170	0.0350	8.6	1,380	2,070	40,000
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0814	0.0369	7.5	1,540	NA	49,000
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.1030	0.0394	7.8	1,190	2,180	4,000
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0289	0.0386	9.3	1,240	2,230	202,000
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0605	0.0441	8.9	1,200	1,950	42,500
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0484	0.0369	7.3	1,260	NA	33,000
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0303	0.0369	8.6	1,180	2,090	910
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0265	0.0381	5.5	1,350	1,960	1,160
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0227	0.0410	8.2	1,280	2,180	1,865
	6/16/2014	NA	NA	NA	NA	NA	NA	0.0080	0.0340	6.5	1,240	1,950	NA
	9/25/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0160	0.0335	7	1,260	NA	NA
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0155	0.0314	6.8	1,330	2,250	NA
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0156	0.0432	6.7	1,300	2,280	NA
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0226	0.0408	5.6	1,280	2,100	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0088	0.0406	7.1	1,260	1,960	NA
	12/1/2015	< 0.001	0.0023	< 0.001	< 0.003	NA	NA	0.0118	0.0402	7.1	1,210	2,320	NA
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0134	0.0416	7.7	1,300	2,080	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0713	0.0427	9.3	1,210	2,210	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0138	0.0354	6.3	1,340	2,140	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	--	--	6.9	1,250	1,950	NA
MW-5	10/18/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.5	< 0.5	NA	NA	NA	NA	NA	970,000
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	1.10	< 0.015	0.12	3,500	2,760	252,000
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.868	< 0.015	< 0.10	2,040	NA	63,000
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.791	< 0.015	< 0.10	1,620	2,830	130,000
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.58	< 0.015	< 0.10	1,710	2,950	102,000
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.356	< 0.015	0.3	1,700	2,370	16,950
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.609	< 0.015	0.25	1,630	NA	20,500
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.368	< 0.015	< 0.10	1,640	2,540	660
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.396	< 0.015	< 0.10	1,740	2,770	5,450
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.606	< 0.015	< 0.10	1,760	2,800	1,315
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.93	< 0.015	0.17	1,730	2,320	NA
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.433	< 0.015	0.14	1,490	2,850	NA
	12/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0706	< 0.015	0.13	1,790	2,710	NA
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0433	< 0.015	0.11	1,730	3,030	NA
	6/16/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0331	< 0.015	< 0.10	1,720	2,780	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0215	< 0.015	0.14	1,810	3,180	NA
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0163	< 0.015	0.16	1,670	3,100	NA
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.128	< 0.015	< 0.10	1,760	2,700	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0109	< 0.015	0.11	1,610	2,630	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.235	< 0.015	< 0.10	1,850	2,760	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.214	< 0.015	< 0.10	1,680	2,630	NA

Table 3

Groundwater Analytical Results Summary  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (total) (mg/L)</b>	<b>TPH-DRO (mg/L)</b>	<b>TPH-GRO (mg/L)</b>	<b>Manganese (dissolved) (mg/L)</b>	<b>Selenium (dissolved) (mg/L)</b>	<b>Nitrate (as N) (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Total Dissolved Solids (TDS) (mg/L)</b>	<b>Heterotrophic Plate Count (CFU/mL)</b>
	<b>NMWQCC Standards</b>	<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	<b>NE</b>	<b>NE</b>	<b>0.2</b>	<b>0.05</b>	<b>10</b>	<b>600</b>	<b>1,000</b>	<b>NE</b>
MW-6	10/18/2011	<b>0.033</b>	< 0.001	< 0.001	0.012	< 0.5	< 0.5	NA	NA	NA	NA	NA	720,000
	2/23/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	< 0.005	<b>0.0590</b>	25.8	<b>950</b>	<b>1,760</b>	8,900
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.600</b>	0.0454	35.0	<b>1,090</b>	NA	35,000
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>1.110</b>	0.0460	29.5	<b>955</b>	<b>1,990</b>	12,000
	1/8/2013	0.0012	< 0.001	< 0.001	< 0.003	NA	NA	0.158	<b>0.0536</b>	25.6	978	<b>1,980</b>	1,910,000
	3/26/2013	0.0022	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.282</b>	<b>0.0602</b>	30.9	945	<b>1,740</b>	25,500
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.328</b>	<b>0.0621</b>	27.6	946	NA	4,750
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.299</b>	0.0389	22.7	929	<b>1,710</b>	65
	1/7/2014	0.0026	< 0.001	< 0.001	0.0034	NA	NA	<b>0.268</b>	0.0417	19.5	984	<b>2,060</b>	2,460
	3/18/2014	0.0012	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.246</b>	0.0392	23.6	1,000	2,000	710
	6/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.140	0.0360	4.6	<b>955</b>	<b>1,780</b>	NA
	9/16/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.115	0.0386	23.2	846	<b>1,930</b>	NA
	12/16/2014	0.0014	< 0.001	< 0.001	< 0.003	NA	NA	0.147	0.0343	27.2	1,000	1,830	NA
	3/17/2015	< 0.001	0.0018	< 0.001	< 0.003	NA	NA	0.114	0.0360	26	986	<b>1,990</b>	NA
	6/16/2015	< 0.001	0.002	< 0.001	0.0037	NA	NA	0.0917	0.0370	22.2	988	<b>1,400</b>	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0456	0.0369	26.4	980	<b>1,940</b>	NA
	12/1/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0396	0.0373	25.3	904	<b>2,130</b>	NA
	3/29/2016	0.0020	0.0034	0.0015	0.0048	NA	NA	0.0338	0.0364	24.6	963	<b>1,900</b>	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0819	0.0296	26.2	884	<b>1,880</b>	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.1070	0.0272	22.4	1,000	<b>1,940</b>	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	--	--	24.8	<b>936</b>	<b>1,860</b>	NA
MW-7	10/18/2011	< 0.001	< 0.001	< 0.001	< 0.003	< 0.5	< 0.5	NA	NA	NA	NA	NA	2,000,000
	2/23/2012	< 0.001	0.0011	< 0.001	0.0034	NA	NA	< 0.005	0.022	4.6	<b>3,320</b>	<b>4,660</b>	< 1
	6/5/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.019	0.030	1.1	<b>1,820</b>	NA	8
	9/18/2012	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.012	0.024	1.0	<b>1,610</b>	<b>4,280</b>	1,900
	1/8/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0093	0.0164	1.3	<b>1,770</b>	<b>3,400</b>	145,000
	3/26/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	< 0.005	< 0.015	5.3	<b>1,730</b>	<b>3,050</b>	79
	6/11/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0082	< 0.015	<b>18.7</b>	<b>1,700</b>	NA	18
	9/10/2013	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.168	< 0.015	31.4	<b>1,740</b>	<b>3,080</b>	110
	1/7/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.452</b>	< 0.015	<b>28.5</b>	<b>1,950</b>	<b>3,320</b>	8,300
	3/18/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.438</b>	< 0.015	35	<b>1,920</b>	<b>3,350</b>	940
	6/16/2014	NA	NA	NA	NA	NA	NA	<b>0.49</b>	< 0.015	2.7	<b>1,930</b>	<b>2,940</b>	NA
	9/25/2014	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.231</b>	< 0.015	<b>29.7</b>	<b>1,970</b>	NA	NA
	12/16/2014	0.0013	0.0031	< 0.001	< 0.003	NA	NA	<b>0.435</b>	< 0.015	3.9	<b>2,140</b>	<b>2,610</b>	NA
	3/17/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.321</b>	< 0.015	<b>23.9</b>	<b>2,030</b>	<b>3,530</b>	NA
	6/16/2015	0.0023	0.0071	< 0.001	0.0045	NA	NA	<b>0.256</b>	< 0.015	18.2	<b>1,970</b>	<b>2,300</b>	NA
	9/15/2015	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	<b>0.227</b>	< 0.015	20.2	<b>2,010</b>	<b>3,100</b>	NA
	12/1/2015	0.0012	0.0053	< 0.001	< 0.003	NA	NA	0.108	< 0.015	<b>20.2</b>	<b>1,900</b>	<b>2,600</b>	NA
	3/29/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.102	< 0.015	17.2	<b>2,080</b>	<b>3,120</b>	NA
	6/21/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0552	< 0.015	<b>21.2</b>	<b>1,900</b>	<b>2,960</b>	NA
	9/7/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	0.0387	< 0.015	16	<b>2,160</b>	<b>2,910</b>	NA
	12/2/2016	< 0.001	< 0.001	< 0.001	< 0.003	NA	NA	--	--	17.3	<b>1,950</b>	<b>3,090</b>	NA

Table 3

Groundwater Analytical Results Summary  
 ConocoPhillips Company  
 San Juan 29-7 Unit 37  
 Rio Arriba County, New Mexico

<b>Well ID</b>	<b>Date</b>	<b>Benzene (mg/L)</b>	<b>Toluene (mg/L)</b>	<b>Ethylbenzene (mg/L)</b>	<b>Xylenes (total) (mg/L)</b>	<b>TPH-DRO (mg/L)</b>	<b>TPH-GRO (mg/L)</b>	<b>Manganese (dissolved) (mg/L)</b>	<b>Selenium (dissolved) (mg/L)</b>	<b>Nitrate (as N) (mg/L)</b>	<b>Sulfate (mg/L)</b>	<b>Total Dissolved Solids (TDS) (mg/L)</b>	<b>Heterotrophic Plate Count (CFU/mL)</b>
	<b>NMWQCC Standards</b>	<b>0.01</b>	<b>0.75</b>	<b>0.75</b>	<b>0.62</b>	<b>NE</b>	<b>NE</b>	<b>0.2</b>	<b>0.05</b>	<b>10</b>	<b>600</b>	<b>1,000</b>	<b>NE</b>
MW-8	10/19/2011	<b>0.15</b>	<b>1.24</b>	<b>0.070</b>	<b>1.43</b>	< 0.5	<b>7.1</b>	NA	NA	NA	NA	NA	2,300,000
	2/23/2012	<b>0.036</b>	<b>0.772</b>	<b>0.054</b>	<b>1.35</b>	NA	NA	< 0.005	<b>0.049</b>	<b>3.2</b>	<b>813</b>	<b>5,790</b>	14
	2/23/2012 (DUP)	<b>0.069</b>	<b>0.876</b>	<b>0.109</b>	<b>1.66</b>	NA	NA	NA	NA	NA	NA	NA	NA
	6/5/2012	<b>0.013</b>	<b>0.120</b>	<b>0.025</b>	<b>0.447</b>	NA	NA	<b>0.022</b>	<b>0.045</b>	<b>18.1</b>	<b>793</b>	NA	630
	9/20/2012	0.0098	0.002	0.006	0.342	NA	NA	NA	NA	<b>21.8</b>	<b>1,130</b>	<b>2,960</b>	NA
	1/8/2013	<b>0.0369</b>	<b>0.0199</b>	<b>0.0018</b>	<b>0.0488</b>	NA	NA	NA	NA	<b>30.4</b>	<b>1,260</b>	<b>2,700</b>	222,000
	3/26/2013	Not sampled due to damaged well casing.											
	6/11/2013	Not sampled due to damaged well casing.											
	7/13/2013	Plugged and Abandoned											
MW-8R	9/10/2013	<b>0.0100</b>	<b>0.0171</b>	<b>0.0017</b>	<b>0.0615</b>	NA	NA	<b>0.395</b>	<b>0.038</b>	<b>38.6</b>	<b>1,230</b>	<b>2,430</b>	5,700
	9/10/2013 (DUP)	0.0083	0.0125	0.0018	0.0443	NA	NA	NA	NA	NA	NA	NA	8,700
	1/7/2014	<b>0.179</b>	<b>0.353</b>	<b>0.0105</b>	<b>0.69</b>	NA	NA	<b>0.255</b>	0.0374	<b>28.3</b>	<b>1,360</b>	<b>2,900</b>	425,000
	1/7/2014 (DUP)	<b>0.192</b>	<b>0.344</b>	<b>0.0107</b>	<b>0.715</b>	NA	NA	NA	NA	NA	NA	NA	NA
	3/18/2014	<b>0.103</b>	<b>0.154</b>	<b>0.0076</b>	<b>0.164</b>	NA	NA	<b>0.106</b>	< 0.015	<b>35.0</b>	<b>1,290</b>	<b>2,460</b>	8,550
	3/18/2014 (DUP)	<b>0.116</b>	<b>0.149</b>	<b>0.0077</b>	<b>0.156</b>	NA	NA	NA	NA	NA	NA	NA	NA
	6/16/2014	<b>0.319</b>	<b>0.846</b>	<b>0.0305</b>	<b>0.505</b>	NA	NA	<b>1.5</b>	< 0.015	<b>4.4</b>	<b>1,510</b>	<b>2,330</b>	NA
	6/16/2014 (DUP)	<b>0.291</b>	<b>0.816</b>	<b>0.0296</b>	<b>0.642</b>	NA	NA	NA	NA	NA	NA	NA	NA
	9/25/2014	<b>0.172</b>	<b>0.0022</b>	< 0.001	0.0067	NA	NA	<b>1.38</b>	< 0.015	6.6	<b>1,530</b>	NA	NA
	9/25/2014 (DUP)	<b>0.182</b>	<b>0.0025</b>	< 0.001	0.0068	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/2014	<b>0.187</b>	<b>0.301</b>	<b>0.0248</b>	<b>0.368</b>	NA	NA	<b>1.01</b>	< 0.015	<b>13</b>	<b>1,470</b>	<b>2,440</b>	NA
	12/16/2014 (DUP)	<b>0.195</b>	<b>0.283</b>	<b>0.0246</b>	<b>0.353</b>	NA	NA	NA	NA	NA	NA	NA	NA
	3/17/2015	<b>0.262</b>	<b>0.0205</b>	<b>0.714</b>	<b>0.501</b>	NA	NA	<b>0.323</b>	0.021	<b>27</b>	<b>1,320</b>	<b>2,240</b>	NA
	3/17/2015 (DUP)	<b>0.263</b>	<b>0.0205</b>	<b>0.701</b>	<b>0.494</b>	NA	NA	NA	NA	NA	NA	NA	NA
	6/16/2015	<b>0.191</b>	<b>0.418</b>	<b>0.0147</b>	<b>0.300</b>	NA	NA	<b>0.707</b>	< 0.015	<b>11.2</b>	<b>1,410</b>	<b>2,040</b>	NA
	6/16/2015 (DUP)	<b>0.193</b>	<b>0.412</b>	<b>0.0141</b>	<b>0.293</b>	NA	NA	NA	NA	NA	NA	NA	NA
	9/15/2015	<b>0.451</b>	<b>1.04</b>	<b>0.0587</b>	<b>0.881</b>	NA	NA	<b>0.7</b>	< 0.015	<b>18</b>	<b>1,340</b>	<b>2,340</b>	NA
	9/15/2015 (DUP)	<b>0.449</b>	<b>0.965</b>	<b>0.0603</b>	<b>0.83</b>	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/2015	<b>0.412</b>	<b>0.873</b>	<b>0.0257</b>	<b>0.508</b>	NA	NA	<b>0.84</b>	< 0.015	<b>13.1</b>	<b>1,290</b>	<b>2,180</b>	NA
	12/1/2015 (DUP)	<b>0.418</b>	<b>0.922</b>	<b>0.0264</b>	<b>0.526</b>	NA	NA	NA	NA	NA	NA	NA	NA
	3/29/2016	<b>0.173</b>	<b>0.313</b>	<b>0.0136</b>	<b>0.222</b>	NA	NA	<b>1.16</b>	< 0.015	2.8	<b>1560</b>	<b>2280</b>	NA
	3/29/2016 (DUP)	<b>0.17</b>	<b>0.278</b>	<b>0.0148</b>	<b>0.247</b>	NA	NA	<b>NA</b>	NA	NA	NA	NA	NA
	6/21/2016	<b>0.193</b>	<b>0.586</b>	<b>0.0168</b>	<b>0.466</b>	NA	NA	<b>0.431</b>	< 0.015	<b>20.7</b>	<b>1280</b>	<b>2180</b>	NA
	6/21/2016 (DUP)	<b>0.204</b>	<b>0.625</b>	<b>0.0182</b>	<b>0.456</b>	NA	NA	NA	NA	NA	NA	NA	NA
	9/7/2016	<b>0.27</b>	<b>0.901</b>	<b>0.0291</b>	<b>0.670</b>	NA	NA	<b>0.758</b>	< 0.015	<b>13.7</b>	<b>1500</b>	<b>2300</b>	NA
	9/7/2016 (DUP)	<b>0.3</b>	<b>1.12</b>	<b>0.0372</b>	<b>0.812</b>	NA	NA	NA	NA	NA	NA	NA	NA
	12/2/2016	<b>0.162</b>	<b>0.122</b>	< 0.005	0.246	NA	NA	<b>0.488</b>	< 0.015	<b>17.6</b>	<b>1320</b>	<b>2260</b>	NA

Notes:

MW = Monitoring Well

NMWQCC = New Mexico Water Quality Control Commission

BOLD = Exceeds NMWQCC Groundwater Quality Standard

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

'-' = Analyte not detected above set laboratory detection limit

E = Analyte concentration exceeded the calibration range

NE = Not Established

NA = Not analyzed

TPH DRO = total petroleum hydrocarbons diesel range organics

TPH GRO = total petroleum hydrocarbons gasoline range organics

-- = No data

Cells shaded in gray indicate groundwater samples collected prior to CoolOx™ treatment

## **Appendix A**

# **Groundwater Laboratory Analytical Reports**

April 11, 2016

Jeffrey Walker  
GHD Services, Inc  
6121 Indian School Rd NE  
Ste 200  
Albuquerque, NM 87110

RE: Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60215883

Dear Jeffrey Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2016. 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

Enclosures

cc: Angela Bown, GHD Services, Inc,  
Cassie Brown, GHD Services, Inc,  
Cale Kanack, GHD



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60215883

---

### Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219  
WY STR Certification #: 2456.01  
Arkansas Certification #: 15-016-0  
Illinois Certification #: 003097  
Iowa Certification #: 118  
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055  
Nevada Certification #: KS000212008A  
Oklahoma Certification #: 9205/9935  
Texas Certification #: T104704407  
Utah Certification #: KS00021  
Kansas Field Laboratory Accreditation: # E-92587

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60215883001	GW-075034-032916-CM-MW-4	Water	03/29/16 09:25	03/30/16 08:40
60215883002	GW-075034-032916-CM-MW-7	Water	03/29/16 10:20	03/30/16 08:40
60215883003	GW-075034-032916-CM-MW-3	Water	03/29/16 11:10	03/30/16 08:40
60215883004	GW-075034-032916-CM-MW-5	Water	03/29/16 11:20	03/30/16 08:40
60215883005	GW-075034-032916-CM-MW-2	Water	03/29/16 12:35	03/30/16 08:40
60215883006	GW-075034-032916-CM-MW-1	Water	03/29/16 13:10	03/30/16 08:40
60215883007	GW-075034-032916-CM-MW-8R	Water	03/29/16 13:30	03/30/16 08:40
60215883008	GW-075034-032916-CM-MW-6	Water	03/29/16 14:00	03/30/16 08:40
60215883009	DUP-075034-032916-CM-001	Water	03/29/16 00:00	03/30/16 08:40
60215883010	TB-075034-032916-CM-001	Water	03/29/16 15:30	03/30/16 08:40

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60215883

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60215883001	GW-075034-032916-CM-MW-4	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883002	GW-075034-032916-CM-MW-7	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883003	GW-075034-032916-CM-MW-3	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883004	GW-075034-032916-CM-MW-5	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883005	GW-075034-032916-CM-MW-2	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883006	GW-075034-032916-CM-MW-1	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883007	GW-075034-032916-CM-MW-8R	EPA 6010	JGP	2
		EPA 8260	JKL	8
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883008	GW-075034-032916-CM-MW-6	EPA 6010	JGP	2
		EPA 8260	JTK	8

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37  
 Pace Project No.: 60215883

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C	AGO	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60215883009	DUP-075034-032916-CM-001	EPA 8260	JDH, JTK	8
60215883010	TB-075034-032916-CM-001	EPA 8260	JTK	8

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

---

**Method:** **EPA 6010**

**Description:** 6010 MET ICP, Dissolved

**Client:** GHD Services\_COP NM

**Date:** April 11, 2016

### **General Information:**

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

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

### **Sample Preparation:**

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

### **Initial Calibrations (including MS Tune as applicable):**

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

### **Continuing Calibration:**

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

### **Method Blank:**

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

### **Laboratory Control Spike:**

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

### **Matrix Spikes:**

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

### **Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

---

**Method:** **EPA 8260**

**Description:** 8260 MSV UST, Water

**Client:** GHD Services\_COP NM

**Date:** April 11, 2016

**General Information:**

10 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: MSV/74964

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

QC Batch: MSV/74973

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

QC Batch: MSV/74999

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

---

**Method:** **SM 2540C**

**Description:** 2540C Total Dissolved Solids

**Client:** GHD Services\_COP NM

**Date:** April 11, 2016

**General Information:**

8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**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, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Duplicate Sample:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

---

**Method:** **EPA 300.0**

**Description:** 300.0 IC Anions 28 Days

**Client:** GHD Services\_COP NM

**Date:** April 11, 2016

**General Information:**

8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60215883

---

**Method:** **EPA 353.2**

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres

**Client:** GHD Services\_COP NM

**Date:** April 11, 2016

**General Information:**

8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**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.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-4	Lab ID: 60215883001	Collected: 03/29/16 09:25	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	13.4	ug/L	5.0	1	04/01/16 15:30	04/05/16 12:31	7439-96-5	
Selenium, Dissolved	41.6	ug/L	15.0	1	04/01/16 15:30	04/05/16 12:31	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/02/16 06:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/02/16 06:55	100-41-4	
Toluene	ND	ug/L	1.0	1		04/02/16 06:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/02/16 06:55	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	1		04/02/16 06:55	2037-26-5	
4-Bromofluorobenzene (S)	98	%	77-130	1		04/02/16 06:55	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		04/02/16 06:55	17060-07-0	
Preservation pH	1.0		1.0	1		04/02/16 06:55		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	2080	mg/L	5.0	1		04/01/16 12:04		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	1300	mg/L	100	100		04/02/16 17:18	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	7.7	mg/L	0.50	5		03/30/16 14:59		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-7	Lab ID: 60215883002	Collected: 03/29/16 10:20	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>102</b>	ug/L	5.0	1	04/01/16 15:30	04/05/16 12:35	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	04/01/16 15:30	04/05/16 12:35	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/02/16 07:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/02/16 07:09	100-41-4	
Toluene	ND	ug/L	1.0	1		04/02/16 07:09	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/02/16 07:09	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	80-120	1		04/02/16 07:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		04/02/16 07:09	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127	1		04/02/16 07:09	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		04/02/16 07:09		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>3120</b>	mg/L	5.0	1		04/01/16 12:04		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>2080</b>	mg/L	200	200		04/02/16 17:33	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>17.2</b>	mg/L	1.0	10		03/30/16 15:00		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-3	Lab ID: 60215883003	Collected: 03/29/16 11:10	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>2140</b>	ug/L	5.0	1	04/01/16 15:30	04/05/16 12:39	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	04/01/16 15:30	04/05/16 12:39	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/02/16 07:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/02/16 07:23	100-41-4	
Toluene	ND	ug/L	1.0	1		04/02/16 07:23	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/02/16 07:23	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	100	%	80-120	1		04/02/16 07:23	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		04/02/16 07:23	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127	1		04/02/16 07:23	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		04/02/16 07:23		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2020</b>	mg/L	5.0	1		04/01/16 12:05		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1130</b>	mg/L	100	100		04/02/16 17:49	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>8.2</b>	mg/L	0.50	5		03/30/16 15:01		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-5	Lab ID: 60215883004	Collected: 03/29/16 11:20	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>128</b>	ug/L	5.0	1	04/01/16 15:30	04/05/16 12:57	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	04/01/16 15:30	04/05/16 12:57	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/02/16 07:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/02/16 07:37	100-41-4	
Toluene	ND	ug/L	1.0	1		04/02/16 07:37	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/02/16 07:37	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	80-120	1		04/02/16 07:37	2037-26-5	
4-Bromofluorobenzene (S)	98	%	77-130	1		04/02/16 07:37	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-127	1		04/02/16 07:37	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		04/02/16 07:37		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2700</b>	mg/L	5.0	1		04/01/16 12:06		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1760</b>	mg/L	200	200		04/02/16 18:34	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/30/16 14:38		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-2	Lab ID: 60215883005	Collected: 03/29/16 12:35	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	ND	ug/L	5.0	1	04/01/16 15:30	04/05/16 13:01	7439-96-5	
Selenium, Dissolved	<b>80.6</b>	ug/L	15.0	1	04/01/16 15:30	04/05/16 13:01	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/02/16 07:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/02/16 07:51	100-41-4	
Toluene	ND	ug/L	1.0	1		04/02/16 07:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/02/16 07:51	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	100	%	80-120	1		04/02/16 07:51	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77-130	1		04/02/16 07:51	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		04/02/16 07:51	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		04/02/16 07:51		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2150</b>	mg/L	5.0	1		04/01/16 12:06		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1340</b>	mg/L	100	100		04/02/16 18:49	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>36.1</b>	mg/L	1.0	10		03/30/16 15:02		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60215883

**Sample: GW-075034-032916-CM-MW-1**      Lab ID: **60215883006**      Collected: 03/29/16 13:10      Received: 03/30/16 08:40      Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1860</b>	ug/L	5.0	1	04/01/16 15:30	04/05/16 13:05	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	04/01/16 15:30	04/05/16 13:05	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		04/02/16 08:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		04/02/16 08:05	100-41-4	
Toluene	ND	ug/L	1.0	1		04/02/16 08:05	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		04/02/16 08:05	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	100	%	80-120	1		04/02/16 08:05	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		04/02/16 08:05	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-127	1		04/02/16 08:05	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		04/02/16 08:05		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2260</b>	mg/L	5.0	1		04/01/16 12:07		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1600</b>	mg/L	100	100		04/02/16 19:05	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>0.43</b>	mg/L	0.10	1		03/30/16 14:47		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-8R	Lab ID: 60215883007	Collected: 03/29/16 13:30	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1160</b>	ug/L	5.0	1	04/01/16 15:30	04/05/16 13:09	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	04/01/16 15:30	04/05/16 13:09	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>173</b>	ug/L	10.0	10		04/02/16 08:20	71-43-2	
Ethylbenzene	<b>13.6</b>	ug/L	10.0	10		04/02/16 08:20	100-41-4	
Toluene	<b>313</b>	ug/L	10.0	10		04/02/16 08:20	108-88-3	
Xylene (Total)	<b>222</b>	ug/L	30.0	10		04/02/16 08:20	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	10		04/02/16 08:20	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	10		04/02/16 08:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	81-127	10		04/02/16 08:20	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	10		04/02/16 08:20		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2280</b>	mg/L	5.0	1		04/01/16 12:07		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1560</b>	mg/L	100	100		04/02/16 19:20	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>2.8</b>	mg/L	0.10	1		03/30/16 14:48		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: GW-075034-032916-CM-MW-6	Lab ID: 60215883008	Collected: 03/29/16 14:00	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>33.8</b>	ug/L	5.0	1	04/01/16 15:30	04/05/16 13:13	7439-96-5	
Selenium, Dissolved	<b>36.4</b>	ug/L	15.0	1	04/01/16 15:30	04/05/16 13:13	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>2.0</b>	ug/L	1.0	1		03/31/16 10:22	71-43-2	
Ethylbenzene	<b>1.5</b>	ug/L	1.0	1		03/31/16 10:22	100-41-4	
Toluene	<b>3.4</b>	ug/L	1.0	1		03/31/16 10:22	108-88-3	
Xylene (Total)	<b>4.8</b>	ug/L	3.0	1		03/31/16 10:22	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	109	%	80-120	1		03/31/16 10:22	2037-26-5	
4-Bromofluorobenzene (S)	102	%	77-130	1		03/31/16 10:22	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-127	1		03/31/16 10:22	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		03/31/16 10:22		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1900</b>	mg/L	5.0	1		04/01/16 12:08		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>963</b>	mg/L	100	100		04/02/16 19:35	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>24.6</b>	mg/L	1.0	10		03/30/16 15:04		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

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**Sample:** DUP-075034-032916-CM-001    **Lab ID:** 60215883009    Collected: 03/29/16 00:00    Received: 03/30/16 08:40    Matrix: Water

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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>170</b>	ug/L	1.0	1		03/31/16 10:37	71-43-2	
Ethylbenzene	<b>14.8</b>	ug/L	1.0	1		03/31/16 10:37	100-41-4	
Toluene	<b>278</b>	ug/L	5.0	5		04/01/16 09:19	108-88-3	
Xylene (Total)	<b>247</b>	ug/L	3.0	1		03/31/16 10:37	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	106	%	80-120	1		03/31/16 10:37	2037-26-5	
4-Bromofluorobenzene (S)	102	%	77-130	1		03/31/16 10:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-127	1		03/31/16 10:37	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		03/31/16 10:37		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Sample: TB-075034-032916-CM-001	Lab ID: 60215883010	Collected: 03/29/16 15:30	Received: 03/30/16 08:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		03/31/16 10:52	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		03/31/16 10:52	100-41-4	
Toluene	ND	ug/L	1.0	1		03/31/16 10:52	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		03/31/16 10:52	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	108	%	80-120	1		03/31/16 10:52	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		03/31/16 10:52	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-127	1		03/31/16 10:52	17060-07-0	
Preservation pH	<b>1.0</b>			1.0	1	03/31/16 10:52		

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

QC Batch:	MPRP/35416	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
Associated Lab Samples:	60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008		

METHOD BLANK: 1734700 Matrix: Water

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	04/05/16 12:06	
Selenium, Dissolved	ug/L	ND	15.0	04/05/16 12:06	

LABORATORY CONTROL SAMPLE: 1734701

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1000	100	80-120	
Selenium, Dissolved	ug/L	1000	979	98	80-120	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1734702 1734703

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	0.13 mg/L	1000	1000	1140	1120	101	99	75-125	2	20
Selenium, Dissolved	ug/L	ND	1000	1000	1060	1060	106	106	75-125	0	20

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

QC Batch:	MSV/74964	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007		

METHOD BLANK: 1733258 Matrix: Water

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	04/02/16 03:51	
Ethylbenzene	ug/L	ND	1.0	04/02/16 03:51	
Toluene	ug/L	ND	1.0	04/02/16 03:51	
Xylene (Total)	ug/L	ND	3.0	04/02/16 03:51	
1,2-Dichloroethane-d4 (S)	%	101	81-127	04/02/16 03:51	
4-Bromofluorobenzene (S)	%	100	77-130	04/02/16 03:51	
Toluene-d8 (S)	%	101	80-120	04/02/16 03:51	

LABORATORY CONTROL SAMPLE: 1733259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	20.8	104	79-116	
Ethylbenzene	ug/L	20	20.8	104	81-110	
Toluene	ug/L	20	21.4	107	82-111	
Xylene (Total)	ug/L	60	59.4	99	80-111	
1,2-Dichloroethane-d4 (S)	%			101	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			100	80-120	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

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QC Batch:	MSV/74973	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60215883008, 60215883009, 60215883010		

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METHOD BLANK: 1733376 Matrix: Water

Associated Lab Samples: 60215883008, 60215883009, 60215883010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	03/31/16 07:23	
Ethylbenzene	ug/L	ND	1.0	03/31/16 07:23	
Toluene	ug/L	ND	1.0	03/31/16 07:23	
Xylene (Total)	ug/L	ND	3.0	03/31/16 07:23	
1,2-Dichloroethane-d4 (S)	%	93	81-127	03/31/16 07:23	
4-Bromofluorobenzene (S)	%	104	77-130	03/31/16 07:23	
Toluene-d8 (S)	%	108	80-120	03/31/16 07:23	

LABORATORY CONTROL SAMPLE: 1733377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	19.3	96	79-116	
Ethylbenzene	ug/L	20	19.0	95	81-110	
Toluene	ug/L	20	19.5	98	82-111	
Xylene (Total)	ug/L	60	59.9	100	80-111	
1,2-Dichloroethane-d4 (S)	%			98	81-127	
4-Bromofluorobenzene (S)	%			103	77-130	
Toluene-d8 (S)	%			107	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

QC Batch:	MSV/74999	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60215883009		

METHOD BLANK: 1733979 Matrix: Water

Associated Lab Samples: 60215883009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	1.0	04/01/16 07:19	
1,2-Dichloroethane-d4 (S)	%	100	81-127	04/01/16 07:19	
4-Bromofluorobenzene (S)	%	105	77-130	04/01/16 07:19	
Toluene-d8 (S)	%	102	80-120	04/01/16 07:19	

LABORATORY CONTROL SAMPLE: 1733980

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.7	104	82-111	
1,2-Dichloroethane-d4 (S)	%			99	81-127	
4-Bromofluorobenzene (S)	%			98	77-130	
Toluene-d8 (S)	%			102	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

QC Batch:	WET/60933	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008		

METHOD BLANK: 1734119 Matrix: Water

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	04/01/16 11:56	

LABORATORY CONTROL SAMPLE: 1734120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	993	99	80-120	

SAMPLE DUPLICATE: 1734121

Parameter	Units	60215882006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1010	1020	1	10	

SAMPLE DUPLICATE: 1734122

Parameter	Units	60215998001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	925	939	1	10	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

QC Batch: WETA/38808

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008

METHOD BLANK: 1735346

Matrix: Water

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	04/02/16 10:16	

LABORATORY CONTROL SAMPLE: 1735347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1735348 1735349

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Sulfate	mg/L	ND	100000	100000	105000	103000	105	103	80-120	2	15

MATRIX SPIKE SAMPLE: 1735350

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	ND	500	571	97	80-120	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

QC Batch: WETA/38772

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008

METHOD BLANK: 1733204

Matrix: Water

Associated Lab Samples: 60215883001, 60215883002, 60215883003, 60215883004, 60215883005, 60215883006, 60215883007, 60215883008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/30/16 14:26	

LABORATORY CONTROL SAMPLE: 1733205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	102	85-115	

MATRIX SPIKE SAMPLE: 1733206

Parameter	Units	60215882006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.4	85	85-115	

MATRIX SPIKE SAMPLE: 1733208

Parameter	Units	60215884010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.12	1.6	1.7	97	85-115	

SAMPLE DUPLICATE: 1733207

Parameter	Units	60215887001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	35.8	36.2	1	20	

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## QUALIFIERS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: MSV/74964

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

Batch: MSV/74973

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

Batch: MSV/74999

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

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60215883

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60215883001	GW-075034-032916-CM-MW-4	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883002	GW-075034-032916-CM-MW-7	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883003	GW-075034-032916-CM-MW-3	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883004	GW-075034-032916-CM-MW-5	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883005	GW-075034-032916-CM-MW-2	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883006	GW-075034-032916-CM-MW-1	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883007	GW-075034-032916-CM-MW-8R	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883008	GW-075034-032916-CM-MW-6	EPA 3010	MPRP/35416	EPA 6010	ICP/25911
60215883001	GW-075034-032916-CM-MW-4	EPA 8260	MSV/74964		
60215883002	GW-075034-032916-CM-MW-7	EPA 8260	MSV/74964		
60215883003	GW-075034-032916-CM-MW-3	EPA 8260	MSV/74964		
60215883004	GW-075034-032916-CM-MW-5	EPA 8260	MSV/74964		
60215883005	GW-075034-032916-CM-MW-2	EPA 8260	MSV/74964		
60215883006	GW-075034-032916-CM-MW-1	EPA 8260	MSV/74964		
60215883007	GW-075034-032916-CM-MW-8R	EPA 8260	MSV/74964		
60215883008	GW-075034-032916-CM-MW-6	EPA 8260	MSV/74973		
60215883009	DUP-075034-032916-CM-001	EPA 8260	MSV/74973		
60215883009	DUP-075034-032916-CM-001	EPA 8260	MSV/74999		
60215883010	TB-075034-032916-CM-001	EPA 8260	MSV/74973		
60215883001	GW-075034-032916-CM-MW-4	SM 2540C	WET/60933		
60215883002	GW-075034-032916-CM-MW-7	SM 2540C	WET/60933		
60215883003	GW-075034-032916-CM-MW-3	SM 2540C	WET/60933		
60215883004	GW-075034-032916-CM-MW-5	SM 2540C	WET/60933		
60215883005	GW-075034-032916-CM-MW-2	SM 2540C	WET/60933		
60215883006	GW-075034-032916-CM-MW-1	SM 2540C	WET/60933		
60215883007	GW-075034-032916-CM-MW-8R	SM 2540C	WET/60933		
60215883008	GW-075034-032916-CM-MW-6	SM 2540C	WET/60933		
60215883001	GW-075034-032916-CM-MW-4	EPA 300.0	WETA/38808		
60215883002	GW-075034-032916-CM-MW-7	EPA 300.0	WETA/38808		
60215883003	GW-075034-032916-CM-MW-3	EPA 300.0	WETA/38808		
60215883004	GW-075034-032916-CM-MW-5	EPA 300.0	WETA/38808		
60215883005	GW-075034-032916-CM-MW-2	EPA 300.0	WETA/38808		
60215883006	GW-075034-032916-CM-MW-1	EPA 300.0	WETA/38808		
60215883007	GW-075034-032916-CM-MW-8R	EPA 300.0	WETA/38808		
60215883008	GW-075034-032916-CM-MW-6	EPA 300.0	WETA/38808		
60215883001	GW-075034-032916-CM-MW-4	EPA 353.2	WETA/38772		
60215883002	GW-075034-032916-CM-MW-7	EPA 353.2	WETA/38772		
60215883003	GW-075034-032916-CM-MW-3	EPA 353.2	WETA/38772		
60215883004	GW-075034-032916-CM-MW-5	EPA 353.2	WETA/38772		
60215883005	GW-075034-032916-CM-MW-2	EPA 353.2	WETA/38772		
60215883006	GW-075034-032916-CM-MW-1	EPA 353.2	WETA/38772		
60215883007	GW-075034-032916-CM-MW-8R	EPA 353.2	WETA/38772		
60215883008	GW-075034-032916-CM-MW-6	EPA 353.2	WETA/38772		

**REPORT OF LABORATORY ANALYSIS**

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## Sample Condition Upon Receipt

WO# : 60215883



60215883

Client Name: GHDCourier: FedEx  UPS  VIA  Clay  PEX  ECI  Pace  Other  Client Tracking #: 6508 8/65 2136Pace Shipping Label Used? Yes  No 

AP1
Optional
Proj Due Date:
Proj Name:

Custody Seal on Cooler/Box Present: Yes  No  Seals intact: Yes  No Packing Material: Bubble Wrap  Bubble Bags  Foam  None  Other 

Thermometer Used: CF +1.0 T-239 / CF 0.0 T-262

Type of Ice: Wet Blue None  Samples received on ice, cooling process has begun.Cooler Temperature: 4.7Date and initials of person examining contents: BB 3/30/16

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>No</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses <u>Y</u>	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> Coliform, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <input type="checkbox"/> Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>121015-3AXI</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State:
Additional labels attached to 5035A vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

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

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

Project Manager Review: AAF Date: 03/30/16



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																																																																																																																																					
Company: GHD Services COP NM	Report To: Christine Mathews	Attention: Jeff Walker	Company Name: Angelic Brown	Address: Purchase Order #: Project Name: 075034 COP San Juan 297 No 37	Page Quote: Pace Project Manager: alice.flanagan@pacelabs.com, Pace Profile #: Project #: Requested Due Date:																																																																																																																																																																																																																																																																																																																																																																				
Address: 6212 Indian School Rd. NE S12	Copy To: Angelic Brown	Page Quote: Pace Project Manager: alice.flanagan@pacelabs.com, Pace Profile #: Project #: Requested Due Date:	Regulatory Agency: State / Location: NM	Residual Chlorine (Y/N):	Requested Analysis Filtered (Y/N):																																																																																																																																																																																																																																																																																																																																																																				
Email: christine.mathews@ghd.com	Fax: 505-842-0672			60215883	60215883																																																																																																																																																																																																																																																																																																																																																																				
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<table border="1"> <thead> <tr> <th rowspan="2">ITEM #</th> <th rowspan="2">SAMPLE ID One Character per box. (A-Z, 0-9 / ,)</th> <th colspan="3">COLLECTED</th> <th colspan="3">Preservatives</th> <th colspan="3">ANALYSES TEST Y/N</th> <th colspan="3">REQUESTED ANALYSIS Filtered (Y/N)</th> </tr> <tr> <th>START</th> <th>END</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>NaOH</th> <th>Na2S2O3</th> <th>HCl</th> <th>HSO4</th> <th>8260 BTEX</th> <th>Dissolved Mn,Se</th> <th>Nitrates</th> <th>TDS</th> <th>Sulfate</th> <th>Other</th> </tr> </thead> <tbody> <tr><td>1</td><td>GW-075034-032916-CM-MW-4</td><td>07/16</td><td>07/16</td><td>0925</td><td>07/16</td><td>0925</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>2</td><td>GW-075034-032916-CM-MW-7</td><td>07/16</td><td>07/16</td><td>1020</td><td>07/16</td><td>1020</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>3</td><td>GW-075034-032916-CM-MW-3</td><td>07/16</td><td>07/16</td><td>1110</td><td>07/16</td><td>1110</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>4</td><td>GW-075034-032916-CM-MW-5</td><td>07/16</td><td>07/16</td><td>1120</td><td>07/16</td><td>1120</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>5</td><td>GW-075034-032916-CM-MW-2</td><td>07/16</td><td>07/16</td><td>1235</td><td>07/16</td><td>1235</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>6</td><td>GW-075034-032916-CM-MW-1</td><td>07/16</td><td>07/16</td><td>1310</td><td>07/16</td><td>1310</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>7</td><td>GW-075034-032916-CM-MW-8R</td><td>07/16</td><td>07/16</td><td>1330</td><td>07/16</td><td>1330</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>8</td><td>GW-075034-032916-CM-MW-6</td><td>07/16</td><td>07/16</td><td>1400</td><td>07/16</td><td>1400</td><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></tr> <tr><td>9</td><td>DUR-075034-032916-CM-001</td><td>07/16</td><td>07/16</td><td>—</td><td>07/16</td><td>—</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>10</td><td>TB-075034-032916-CM-001</td><td>07/16</td><td>07/16</td><td>1510</td><td>07/16</td><td>1510</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>ADDITIONAL COMMENTS</td><td>RELAUNCHED BY / AFFILIATION</td><td>DATE</td><td>TIME</td><td>ACCEPTED BY / AFFILIATION</td><td>DATE</td><td>TIME</td><td colspan="6">SAMPLE CONDITIONS</td></tr> <tr> <td></td><td></td><td>C. 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July 06, 2016

Christine Mathews  
GHD Services, Inc.  
6212 Indian School Rd. NE St2  
Albuquerque, NM 87110

RE: Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

Dear Christine Mathews:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2016. 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

Enclosures

cc: Angela Bown, GHD Services, Inc,  
Jeffrey Walker, GHD Services, Inc



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

---

### Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219  
WY STR Certification #: 2456.01  
Arkansas Certification #: 15-016-0  
Illinois Certification #: 003097  
Iowa Certification #: 118  
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055  
Nevada Certification #: KS000212008A  
Oklahoma Certification #: 9205/9935  
Texas Certification #: T104704407  
Utah Certification #: KS00021  
Kansas Field Laboratory Accreditation: # E-92587

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60221830001	GW-075034-062116-SP-MW-5	Water	06/21/16 11:20	06/22/16 08:50
60221830002	GW-075034-062116-SP-MW-2	Water	06/21/16 11:45	06/22/16 08:50
60221830003	GW-075034-062116-SP-MW-3	Water	06/21/16 12:05	06/22/16 08:50
60221830004	GW-075034-062116-SP-MW-6	Water	06/21/16 12:45	06/22/16 08:50
60221830005	GW-075034-062116-SP-MW-8R	Water	06/21/16 13:25	06/22/16 08:50
60221830006	GW-075034-062116-SP-MW-7	Water	06/21/16 14:00	06/22/16 08:50
60221830007	GW-075034-062116-SP-MW-4	Water	06/21/16 14:15	06/22/16 08:50
60221830008	GW-075034-062116-SP-MW-1	Water	06/21/16 14:45	06/22/16 08:50
60221830009	GW-075034-062116-SP-DUP	Water	06/21/16 08:00	06/22/16 08:50
60221830010	TRIP BLANK	Water	06/21/16 08:00	06/22/16 08:50

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60221830001	GW-075034-062116-SP-MW-5	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830002	GW-075034-062116-SP-MW-2	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830003	GW-075034-062116-SP-MW-3	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830004	GW-075034-062116-SP-MW-6	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830005	GW-075034-062116-SP-MW-8R	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830006	GW-075034-062116-SP-MW-7	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830007	GW-075034-062116-SP-MW-4	EPA 6010	JGP	2
		EPA 8260	JDH	8
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830008	GW-075034-062116-SP-MW-1	EPA 6010	JGP	2
		EPA 8260	JDH	8

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37  
 Pace Project No.: 60221830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C	HAC	1
		EPA 300.0	OL	1
		EPA 353.2	CRS	1
60221830009	GW-075034-062116-SP-DUP	EPA 8260	JDH	8

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

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**Method:** **EPA 6010**

**Description:** 6010 MET ICP, Dissolved

**Client:** GHD Services\_COP NM

**Date:** July 06, 2016

### **General Information:**

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

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

### **Sample Preparation:**

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

### **Initial Calibrations (including MS Tune as applicable):**

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

### **Continuing Calibration:**

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

### **Method Blank:**

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

### **Laboratory Control Spike:**

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

### **Matrix Spikes:**

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

### **Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

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**Method:** **EPA 8260**

**Description:** 8260 MSV UST, Water

**Client:** GHD Services\_COP NM

**Date:** July 06, 2016

**General Information:**

9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: MSV/76608

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

QC Batch: MSV/76642

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

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**Method:** **SM 2540C**

**Description:** 2540C Total Dissolved Solids

**Client:** GHD Services\_COP NM

**Date:** July 06, 2016

**General Information:**

8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**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, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Duplicate Sample:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

---

**Method:** **EPA 300.0**  
**Description:** 300.0 IC Anions 28 Days  
**Client:** GHD Services\_COP NM  
**Date:** July 06, 2016

### **General Information:**

8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

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

### **Initial Calibrations (including MS Tune as applicable):**

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

### **Continuing Calibration:**

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

### **Method Blank:**

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

### **Laboratory Control Spike:**

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

### **Matrix Spikes:**

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

QC Batch: WETA/40363

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60222038006,60222038007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1786773)
- Sulfate

### **Additional Comments:**

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

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**Method:** **EPA 353.2**

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres

**Client:** GHD Services\_COP NM

**Date:** July 06, 2016

**General Information:**

8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**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.

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-5	Lab ID: 60221830001	Collected: 06/21/16 11:20	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>10.9</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:05	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:05	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/23/16 17:51	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 17:51	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 17:51	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 17:51	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	1		06/23/16 17:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		06/23/16 17:51	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		06/23/16 17:51	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 17:51		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2630</b>	mg/L	5.0	1		06/24/16 08:58		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1610</b>	mg/L	200	200		07/01/16 13:44	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>0.11</b>	mg/L	0.10	1		06/22/16 15:16		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-2	Lab ID: 60221830002	Collected: 06/21/16 11:45	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1920</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:09	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:09	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/23/16 18:06	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 18:06	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 18:06	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 18:06	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		06/23/16 18:06	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		06/23/16 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		06/23/16 18:06	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 18:06		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1930</b>	mg/L	5.0	1		06/24/16 08:59		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1060</b>	mg/L	100	100		07/01/16 13:59	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>10.6</b>	mg/L	0.50	5		06/22/16 15:32		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-3	Lab ID: 60221830003	Collected: 06/21/16 12:05	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>9.9</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:12	7439-96-5	
Selenium, Dissolved	<b>76.4</b>	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:12	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/23/16 18:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 18:22	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 18:22	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 18:22	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	1		06/23/16 18:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		06/23/16 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	81-127	1		06/23/16 18:22	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 18:22		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2190</b>	mg/L	5.0	1		06/24/16 09:01		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1260</b>	mg/L	100	100		07/01/16 14:14	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>40.6</b>	mg/L	1.0	10		06/22/16 15:33		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-6	Lab ID: 60221830004	Collected: 06/21/16 12:45	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>81.9</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:33	7439-96-5	
Selenium, Dissolved	<b>29.6</b>	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:33	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>1.0</b>	ug/L	1.0	1		06/23/16 18:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 18:37	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 18:37	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 18:37	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	1		06/23/16 18:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		06/23/16 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		06/23/16 18:37	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 18:37		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1880</b>	mg/L	5.0	1		06/24/16 09:02		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>884</b>	mg/L	100	100		07/01/16 14:29	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>26.2</b>	mg/L	1.0	10		06/22/16 15:34		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-8R	Lab ID: 60221830005	Collected: 06/21/16 13:25	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>431</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:37	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:37	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>193</b>	ug/L	5.0	5		06/23/16 18:52	71-43-2	
Ethylbenzene	<b>16.8</b>	ug/L	5.0	5		06/23/16 18:52	100-41-4	
Toluene	<b>586</b>	ug/L	5.0	5		06/23/16 18:52	108-88-3	
Xylene (Total)	<b>466</b>	ug/L	15.0	5		06/23/16 18:52	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	98	%	80-120	5		06/23/16 18:52	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	5		06/23/16 18:52	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	81-127	5		06/23/16 18:52	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	5		06/23/16 18:52		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2180</b>	mg/L	5.0	1		06/24/16 09:02		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1280</b>	mg/L	100	100		07/01/16 14:44	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>20.7</b>	mg/L	1.0	10		06/22/16 15:37		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-7	Lab ID: 60221830006	Collected: 06/21/16 14:00	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>55.2</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:41	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:41	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/23/16 19:07	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 19:07	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 19:07	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 19:07	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	1		06/23/16 19:07	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		06/23/16 19:07	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	81-127	1		06/23/16 19:07	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 19:07		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2960</b>	mg/L	5.0	1		06/24/16 09:03		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1900</b>	mg/L	200	200		07/01/16 15:29	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>21.2</b>	mg/L	0.50	5		06/22/16 15:39		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-4	Lab ID: 60221830007	Collected: 06/21/16 14:15	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>71.3</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:45	7439-96-5	
Selenium, Dissolved	<b>42.7</b>	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:45	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/23/16 19:22	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 19:22	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 19:22	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 19:22	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	98	%	80-120	1		06/23/16 19:22	2037-26-5	
4-Bromofluorobenzene (S)	100	%	77-130	1		06/23/16 19:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		06/23/16 19:22	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 19:22		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2210</b>	mg/L	5.0	1		06/24/16 09:04		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1210</b>	mg/L	100	100		07/01/16 15:44	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>9.3</b>	mg/L	0.50	5		06/22/16 15:39		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

Sample: GW-075034-062116-SP-MW-1	Lab ID: 60221830008	Collected: 06/21/16 14:45	Received: 06/22/16 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1720</b>	ug/L	5.0	1	06/24/16 09:30	06/27/16 10:49	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	06/24/16 09:30	06/27/16 10:49	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		06/23/16 19:37	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		06/23/16 19:37	100-41-4	
Toluene	ND	ug/L	1.0	1		06/23/16 19:37	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		06/23/16 19:37	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		06/23/16 19:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		06/23/16 19:37	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		06/23/16 19:37	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 19:37		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2250</b>	mg/L	5.0	1		06/24/16 09:05		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1390</b>	mg/L	200	200		07/01/16 15:58	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>1.1</b>	mg/L	0.10	1		06/22/16 15:30		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

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**Sample:** GW-075034-062116-SP-DUP      **Lab ID:** 60221830009      Collected: 06/21/16 08:00      Received: 06/22/16 08:50      Matrix: Water

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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>204</b>	ug/L	5.0	5		06/24/16 22:03	71-43-2	
Ethylbenzene	<b>18.2</b>	ug/L	1.0	1		06/23/16 19:52	100-41-4	
Toluene	<b>625</b>	ug/L	5.0	5		06/24/16 22:03	108-88-3	
Xylene (Total)	<b>456</b>	ug/L	3.0	1		06/23/16 19:52	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	99	%	80-120	1		06/23/16 19:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%	77-130	1		06/23/16 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	81-127	1		06/23/16 19:52	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		06/23/16 19:52		

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

QC Batch:	MPRP/36443	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
Associated Lab Samples:	60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008		

METHOD BLANK: 1782187 Matrix: Water

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
Manganese, Dissolved	ug/L	ND	5.0	06/27/16 09:39	
Selenium, Dissolved	ug/L	ND	15.0	06/27/16 09:39	

LABORATORY CONTROL SAMPLE: 1782188

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Manganese, Dissolved	ug/L	1000	961	96	80-120	
Selenium, Dissolved	ug/L	1000	995	99	80-120	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1782189 1782190

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60221546001	Spike										
Manganese, Dissolved	ug/L	0.18 mg/L	1000	1000	1120	1120	94	94	75-125	0	20		
Selenium, Dissolved	ug/L	ND	1000	1000	1030	1030	103	103	75-125	0	20		

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

QC Batch:	MSV/76608	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008, 60221830009		

METHOD BLANK: 1781585 Matrix: Water

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007,  
60221830008, 60221830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/23/16 17:21	
Ethylbenzene	ug/L	ND	1.0	06/23/16 17:21	
Toluene	ug/L	ND	1.0	06/23/16 17:21	
Xylene (Total)	ug/L	ND	3.0	06/23/16 17:21	
1,2-Dichloroethane-d4 (S)	%	105	81-127	06/23/16 17:21	
4-Bromofluorobenzene (S)	%	101	77-130	06/23/16 17:21	
Toluene-d8 (S)	%	97	80-120	06/23/16 17:21	

LABORATORY CONTROL SAMPLE: 1781586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.2	106	79-116	
Ethylbenzene	ug/L	20	20.5	103	81-110	
Toluene	ug/L	20	20.4	102	82-111	
Xylene (Total)	ug/L	60	60.0	100	80-111	
1,2-Dichloroethane-d4 (S)	%			108	81-127	
4-Bromofluorobenzene (S)	%			102	77-130	
Toluene-d8 (S)	%			98	80-120	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

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QC Batch:	MSV/76642	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60221830009		

---

METHOD BLANK: 1782522 Matrix: Water

Associated Lab Samples: 60221830009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	06/24/16 18:48	
Toluene	ug/L	ND	1.0	06/24/16 18:48	
1,2-Dichloroethane-d4 (S)	%	102	81-127	06/24/16 18:48	
4-Bromofluorobenzene (S)	%	103	77-130	06/24/16 18:48	
Toluene-d8 (S)	%	99	80-120	06/24/16 18:48	

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LABORATORY CONTROL SAMPLE: 1782523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.5	107	79-116	
Toluene	ug/L	20	19.9	100	82-111	
1,2-Dichloroethane-d4 (S)	%			104	81-127	
4-Bromofluorobenzene (S)	%			100	77-130	
Toluene-d8 (S)	%			97	80-120	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

QC Batch:	WET/62608	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008		

METHOD BLANK: 1782112 Matrix: Water

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	06/24/16 08:56	

LABORATORY CONTROL SAMPLE: 1782113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	958	96	80-120	

SAMPLE DUPLICATE: 1782114

Parameter	Units	60222038001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	937	943	1	10	

SAMPLE DUPLICATE: 1782115

Parameter	Units	60221932001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1130	1130	0	10	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

QC Batch: WETA/40363

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007,  
60221830008

METHOD BLANK: 1786770

Matrix: Water

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007,  
60221830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	07/01/16 08:59	

LABORATORY CONTROL SAMPLE: 1786771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.7	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1786772 1786773

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Sulfate	mg/L	479	250	250	695	671	86	77	80-120	4	15 M1

MATRIX SPIKE SAMPLE: 1786774

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	618	250	903	114	80-120	

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

QC Batch: WETA/40206

Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2

Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008

METHOD BLANK: 1780663

Matrix: Water

Associated Lab Samples: 60221830001, 60221830002, 60221830003, 60221830004, 60221830005, 60221830006, 60221830007, 60221830008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	06/22/16 15:19	

LABORATORY CONTROL SAMPLE: 1780664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.6	102	85-115	

MATRIX SPIKE SAMPLE: 1780665

Parameter	Units	60221830001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.11	1.6	1.8	108	85-115	

SAMPLE DUPLICATE: 1780666

Parameter	Units	60221830003 Result	Dup Result	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	40.6	35.9	12	20

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## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60221830

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: MSV/76608

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

Batch: MSV/76642

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

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60221830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6022183001	GW-075034-062116-SP-MW-5	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183002	GW-075034-062116-SP-MW-2	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183003	GW-075034-062116-SP-MW-3	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183004	GW-075034-062116-SP-MW-6	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183005	GW-075034-062116-SP-MW-8R	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183006	GW-075034-062116-SP-MW-7	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183007	GW-075034-062116-SP-MW-4	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183008	GW-075034-062116-SP-MW-1	EPA 3010	MPRP/36443	EPA 6010	ICP/26565
6022183001	GW-075034-062116-SP-MW-5	EPA 8260	MSV/76608		
6022183002	GW-075034-062116-SP-MW-2	EPA 8260	MSV/76608		
6022183003	GW-075034-062116-SP-MW-3	EPA 8260	MSV/76608		
6022183004	GW-075034-062116-SP-MW-6	EPA 8260	MSV/76608		
6022183005	GW-075034-062116-SP-MW-8R	EPA 8260	MSV/76608		
6022183006	GW-075034-062116-SP-MW-7	EPA 8260	MSV/76608		
6022183007	GW-075034-062116-SP-MW-4	EPA 8260	MSV/76608		
6022183008	GW-075034-062116-SP-MW-1	EPA 8260	MSV/76608		
6022183009	GW-075034-062116-SP-DUP	EPA 8260	MSV/76608		
6022183009	GW-075034-062116-SP-DUP	EPA 8260	MSV/76642		
6022183001	GW-075034-062116-SP-MW-5	SM 2540C	WET/62608		
6022183002	GW-075034-062116-SP-MW-2	SM 2540C	WET/62608		
6022183003	GW-075034-062116-SP-MW-3	SM 2540C	WET/62608		
6022183004	GW-075034-062116-SP-MW-6	SM 2540C	WET/62608		
6022183005	GW-075034-062116-SP-MW-8R	SM 2540C	WET/62608		
6022183006	GW-075034-062116-SP-MW-7	SM 2540C	WET/62608		
6022183007	GW-075034-062116-SP-MW-4	SM 2540C	WET/62608		
6022183008	GW-075034-062116-SP-MW-1	SM 2540C	WET/62608		
6022183001	GW-075034-062116-SP-MW-5	EPA 300.0	WETA/40363		
6022183002	GW-075034-062116-SP-MW-2	EPA 300.0	WETA/40363		
6022183003	GW-075034-062116-SP-MW-3	EPA 300.0	WETA/40363		
6022183004	GW-075034-062116-SP-MW-6	EPA 300.0	WETA/40363		
6022183005	GW-075034-062116-SP-MW-8R	EPA 300.0	WETA/40363		
6022183006	GW-075034-062116-SP-MW-7	EPA 300.0	WETA/40363		
6022183007	GW-075034-062116-SP-MW-4	EPA 300.0	WETA/40363		
6022183008	GW-075034-062116-SP-MW-1	EPA 300.0	WETA/40363		
6022183001	GW-075034-062116-SP-MW-5	EPA 353.2	WETA/40206		
6022183002	GW-075034-062116-SP-MW-2	EPA 353.2	WETA/40206		
6022183003	GW-075034-062116-SP-MW-3	EPA 353.2	WETA/40206		
6022183004	GW-075034-062116-SP-MW-6	EPA 353.2	WETA/40206		
6022183005	GW-075034-062116-SP-MW-8R	EPA 353.2	WETA/40206		
6022183006	GW-075034-062116-SP-MW-7	EPA 353.2	WETA/40206		
6022183007	GW-075034-062116-SP-MW-4	EPA 353.2	WETA/40206		
6022183008	GW-075034-062116-SP-MW-1	EPA 353.2	WETA/40206		

## REPORT OF LABORATORY ANALYSIS

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## Sample Condition Upon Receipt

WO# : 60221830



Client Name: GHD

Courier: FedEx  UPS  VIA  Clay  PEX  ECI  Pace  Other  Client 

Tracking #: 6703 1644 5810

60221830

Optional

Proj Due Date:

Proj Name:

Custody Seal on Cooler/Box Present: Yes  No  Seals intact: Yes  No Packing Material: Bubble Wrap  Bubble Bags  Foam  None  Other 

Thermometer Used: CF -0.1 T-239 / CF 0.0 T-262

Type of Ice: Wet Blue None  Samples received on ice, cooling process has begun.

Cooler Temperature: 2.3

Date and initials of person examining contents: JB b/22

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. No/No,
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: WT	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed      Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): 6/14/16		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:
Additional labels attached to 5035A vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	18.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

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

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

Project Manager Review: AAF

Date: 06/22/16



# CHAIN-OF-CUSTODY / Analytical Request Document

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

## Section A Required Client Information:

Company:	GHD Services COP NM	Report To:	Christine Mathews
Address:	6212 Indian School Rd. NE S12	Copy To:	Jeff Walker
Albuquerque NM 87110		Address:	Angela Brown
Email:	christine.mathews@ghd.com	Purchase Order #:	
Phone:	505-884-0672	Project Name:	075034 COP San Juan 29-7 No 37
Requested Due Date:		Project #:	

## Section B Required Project Information:

Attention:	Christine Mathews
Company Name:	
Address:	
Phone Quote:	
Space Project Manager:	alice.flanagan@pacelabs.com,
Space Profile #:	

## Section C Invoice Information:

ITEM #	SAMPLE ID	One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	COLLECTED			PRESERVATIVES			ANALYSES TEST Y/N			REQUESTED ANALYSIS FILTERED (Y/N)			
			MATRIX	CODE	DATE	TIME	DATE	TIME	# OF CONTAINERS	H2SO4	NaOH	Na2S2O3	Methylanol	TDS	Nitrates
1	GH-075034-062116-SP-MW-5	Drinking Water	DW	07/16	1120	—	5	1	1	3					00721832
2	GH-075034-062116-SP-MW-2	Waste Water	VWT	07/16	145	—	5	1	1	3					0073
3	GH-075034-062116-SP-MW-3	Product	P	07/16	1205	—	5	1	1	3					0074
4	GH-075034-062116-SP-MW-6	Oil	OL	07/16	1205	—	5	1	1	3					0075
5	GH-075034-062116-SP-MW-8R	Wipe	VWP	07/16	1325	—	5	1	1	3					0076
6	GH-075034-062116-SP-MW-7	Air	AIR	07/16	1400	—	5	1	1	3					0077
7	GH-075034-062116-SP-MW-4	Other	OT	07/16	1415	—	5	1	1	3					0078
8	GH-075034-062116-SP-MW-1	Tissue	TS	07/16	1415	—	3	1	1	3					0079
9	GH-075034-062116-SP-DW														0080
10															
11															
12															
ADDITIONAL COMMENTS			REMOVED BY / AFFILIATION			DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS	
			John Jones			6/21/16	16:40	6/22	0850	6/22	0850	6/22	0850	Y Y Y Y	
SAMPLE NAME AND SIGNATURE															
PRINT Name of SAMPLER:								SIGNATURE of SAMPLER:							
STEPHEN JONES JULIA HORN DATE Signed: 6-21-16															

September 26, 2016

Christine Mathews  
GHD Services, Inc.  
6212 Indian School Rd. NE St2  
Albuquerque, NM 87110

RE: Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60227374

Dear Christine Mathews:

Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2016. 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 Spiller  
alice.spiller@pacelabs.com  
Project Manager

Enclosures

cc: Angela Bown, GHD Services, Inc,  
Jeffrey Walker, GHD Services, Inc



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60227374

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### Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219  
WY STR Certification #: 2456.01  
Arkansas Certification #: 15-016-0  
Illinois Certification #: 003097  
Iowa Certification #: 118  
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055  
Nevada Certification #: KS000212008A  
Oklahoma Certification #: 9205/9935  
Texas Certification #: T104704407  
Utah Certification #: KS00021  
Kansas Field Laboratory Accreditation: # E-92587

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 075034 COP SAN JUAN 29-7 NO 37  
 Pace Project No.: 60227374

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60227374001	GW-075034-090716-SP-MW-1	Water	09/07/16 13:05	09/10/16 09:29
60227374002	GW-075034-090716-SP-MW-2	Water	09/07/16 11:48	09/10/16 09:29
60227374003	GW-075034-090716-SP-MW-3	Water	09/07/16 10:11	09/10/16 09:29
60227374004	GW-075034-090716-SP-MW-4	Water	09/07/16 14:15	09/10/16 09:29
60227374005	GW-075034-090716-SP-MW-5	Water	09/07/16 10:25	09/10/16 09:29
60227374006	GW-075034-090716-SP-MW-6	Water	09/07/16 11:00	09/10/16 09:29
60227374007	GW-075034-090716-SP-MW-7	Water	09/07/16 13:10	09/10/16 09:29
60227374008	GW-075034-090716-SP-MW-8R	Water	09/07/16 13:40	09/10/16 09:29
60227374009	GW-075034-090716-SP-DUP	Water	09/07/16 12:00	09/10/16 09:29
60227374010	TRIP BLANK	Water	09/07/16 12:00	09/10/16 09:29

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60227374

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60227374001	GW-075034-090716-SP-MW-1	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374002	GW-075034-090716-SP-MW-2	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374003	GW-075034-090716-SP-MW-3	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374004	GW-075034-090716-SP-MW-4	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374005	GW-075034-090716-SP-MW-5	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374006	GW-075034-090716-SP-MW-6	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374007	GW-075034-090716-SP-MW-7	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374008	GW-075034-090716-SP-MW-8R	EPA 6010	JGP	2
		EPA 8260	JTK	8

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60227374

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	RAB	1
60227374009	GW-075034-090716-SP-DUP	EPA 8260	JTK	8

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

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**Method:** **EPA 6010**

**Description:** 6010 MET ICP, Dissolved

**Client:** GHD Services\_COP NM

**Date:** September 26, 2016

### **General Information:**

8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

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

### **Sample Preparation:**

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

### **Initial Calibrations (including MS Tune as applicable):**

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

### **Continuing Calibration:**

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

### **Method Blank:**

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

### **Laboratory Control Spike:**

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

### **Matrix Spikes:**

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

### **Additional Comments:**

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

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**Method:** **EPA 8260**

**Description:** 8260 MSV UST, Water

**Client:** GHD Services\_COP NM

**Date:** September 26, 2016

**General Information:**

9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: 446568

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60227293005,60227374008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1825963)
- Toluene

QC Batch: 446710

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

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

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**Method:** **SM 2540C**

**Description:** 2540C Total Dissolved Solids

**Client:** GHD Services\_COP NM

**Date:** September 26, 2016

**General Information:**

8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**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, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Duplicate Sample:**

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

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60227374

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**Method:** **EPA 300.0**  
**Description:** 300.0 IC Anions 28 Days  
**Client:** GHD Services\_COP NM  
**Date:** September 26, 2016

**General Information:**

8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**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, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: 447747

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60227374008,60227819001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1831532)
  - Sulfate
- MSD (Lab ID: 1831533)
  - Sulfate

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

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**Method:** **EPA 353.2**

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres

**Client:** GHD Services\_COP NM

**Date:** September 26, 2016

### General Information:

8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### Hold Time:

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

H3: Sample was received or analysis requested beyond the recognized method holding time.

- GW-075034-090716-SP-MW-1 (Lab ID: 60227374001)
- GW-075034-090716-SP-MW-2 (Lab ID: 60227374002)
- GW-075034-090716-SP-MW-3 (Lab ID: 60227374003)
- GW-075034-090716-SP-MW-4 (Lab ID: 60227374004)
- GW-075034-090716-SP-MW-5 (Lab ID: 60227374005)
- GW-075034-090716-SP-MW-6 (Lab ID: 60227374006)
- GW-075034-090716-SP-MW-7 (Lab ID: 60227374007)
- GW-075034-090716-SP-MW-8R (Lab ID: 60227374008)

### Method Blank:

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

### Laboratory Control Spike:

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

### Matrix Spikes:

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

### 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.

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-1	Lab ID: 60227374001	Collected: 09/07/16 13:05	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1380</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 13:58	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	09/13/16 14:30	09/16/16 13:58	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>1.2</b>	ug/L	1.0	1		09/15/16 01:40	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 01:40	100-41-4	
Toluene	<b>5.8</b>	ug/L	1.0	1		09/15/16 01:40	108-88-3	
Xylene (Total)	<b>4.1</b>	ug/L	3.0	1		09/15/16 01:40	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		09/15/16 01:40	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77-130	1		09/15/16 01:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	81-127	1		09/15/16 01:40	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 01:40		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2230</b>	mg/L	5.0	1		09/13/16 10:59		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1560</b>	mg/L	100	100		09/24/16 18:07	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>1.7</b>	mg/L	0.10	1		09/10/16 16:31		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-2	Lab ID: 60227374002	Collected: 09/07/16 11:48	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>10.4</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:01	7439-96-5	
Selenium, Dissolved	<b>74.0</b>	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:01	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		09/15/16 01:55	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 01:55	100-41-4	
Toluene	ND	ug/L	1.0	1		09/15/16 01:55	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/15/16 01:55	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	96	%	80-120	1		09/15/16 01:55	2037-26-5	
4-Bromofluorobenzene (S)	104	%	77-130	1		09/15/16 01:55	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		09/15/16 01:55	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 01:55		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2320</b>	mg/L	5.0	1		09/13/16 11:00		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1390</b>	mg/L	100	100		09/24/16 18:21	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>29.9</b>	mg/L	1.0	10		09/10/16 16:47		H3

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-3	Lab ID: 60227374003	Collected: 09/07/16 10:11	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1880</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:03	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:03	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		09/15/16 02:10	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 02:10	100-41-4	
Toluene	ND	ug/L	1.0	1		09/15/16 02:10	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/15/16 02:10	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		09/15/16 02:10	2037-26-5	
4-Bromofluorobenzene (S)	105	%	77-130	1		09/15/16 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		09/15/16 02:10	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 02:10		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1780</b>	mg/L	5.0	1		09/13/16 11:02		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1190</b>	mg/L	100	100		09/24/16 18:35	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>2.3</b>	mg/L	0.10	1		09/10/16 16:34		H3

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-4	Lab ID: 60227374004	Collected: 09/07/16 14:15	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	13.8	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:05	7439-96-5	
Selenium, Dissolved	35.4	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:05	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		09/15/16 02:25	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 02:25	100-41-4	
Toluene	ND	ug/L	1.0	1		09/15/16 02:25	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/15/16 02:25	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		09/15/16 02:25	2037-26-5	
4-Bromofluorobenzene (S)	104	%	77-130	1		09/15/16 02:25	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	81-127	1		09/15/16 02:25	17060-07-0	
Preservation pH	1.0		1.0	1		09/15/16 02:25		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	2140	mg/L	5.0	1		09/13/16 11:02		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	1340	mg/L	100	100		09/24/16 18:49	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	6.3	mg/L	0.20	2		09/10/16 16:48		H3

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-5	Lab ID: 60227374005	Collected: 09/07/16 10:25	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>235</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:08	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:08	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		09/15/16 02:40	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 02:40	100-41-4	
Toluene	ND	ug/L	1.0	1		09/15/16 02:40	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/15/16 02:40	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		09/15/16 02:40	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77-130	1		09/15/16 02:40	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-127	1		09/15/16 02:40	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 02:40		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2760</b>	mg/L	5.0	1		09/13/16 11:03		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1850</b>	mg/L	200	200		09/24/16 19:03	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/10/16 16:36		H3

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-6	Lab ID: 60227374006	Collected: 09/07/16 11:00	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>107</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:10	7439-96-5	
Selenium, Dissolved	<b>27.2</b>	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:10	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>1.0</b>	ug/L	1.0	1		09/15/16 02:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 02:54	100-41-4	
Toluene	ND	ug/L	1.0	1		09/15/16 02:54	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/15/16 02:54	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	96	%	80-120	1		09/15/16 02:54	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77-130	1		09/15/16 02:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-127	1		09/15/16 02:54	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 02:54		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1940</b>	mg/L	5.0	1		09/13/16 11:03		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1000</b>	mg/L	100	100		09/24/16 19:18	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>22.4</b>	mg/L	1.0	10		09/10/16 16:49		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-7	Lab ID: 60227374007	Collected: 09/07/16 13:10	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>38.7</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:12	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:12	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		09/15/16 03:09	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		09/15/16 03:09	100-41-4	
Toluene	ND	ug/L	1.0	1		09/15/16 03:09	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		09/15/16 03:09	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	97	%	80-120	1		09/15/16 03:09	2037-26-5	
4-Bromofluorobenzene (S)	104	%	77-130	1		09/15/16 03:09	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-127	1		09/15/16 03:09	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 03:09		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2910</b>	mg/L	5.0	1		09/13/16 11:04		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>2160</b>	mg/L	200	200		09/24/16 19:32	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>16.0</b>	mg/L	1.0	10		09/10/16 16:50		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Sample: GW-075034-090716-SP-MW-8R	Lab ID: 60227374008	Collected: 09/07/16 13:40	Received: 09/10/16 09:29	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>758</b>	ug/L	5.0	1	09/13/16 14:30	09/16/16 14:15	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	09/13/16 14:30	09/16/16 14:15	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>270</b>	ug/L	5.0	5		09/15/16 03:24	71-43-2	
Ethylbenzene	<b>29.1</b>	ug/L	5.0	5		09/15/16 03:24	100-41-4	
Toluene	<b>901</b>	ug/L	5.0	5		09/15/16 03:24	108-88-3	M1
Xylene (Total)	<b>670</b>	ug/L	15.0	5		09/15/16 03:24	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	94	%	80-120	5		09/15/16 03:24	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77-130	5		09/15/16 03:24	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	5		09/15/16 03:24	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	5		09/15/16 03:24		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2300</b>	mg/L	5.0	1		09/13/16 11:04		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1500</b>	mg/L	100	100		09/24/16 20:14	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>13.7</b>	mg/L	1.0	10		09/10/16 16:50		H3

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

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Sample: **GW-075034-090716-SP-DUP** Lab ID: **60227374009** Collected: 09/07/16 12:00 Received: 09/10/16 09:29 Matrix: Water

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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>300</b>	ug/L	10.0	10		09/15/16 20:39	71-43-2	
Ethylbenzene	<b>37.2</b>	ug/L	1.0	1		09/15/16 04:09	100-41-4	
Toluene	<b>1120</b>	ug/L	10.0	10		09/15/16 20:39	108-88-3	
Xylene (Total)	<b>812</b>	ug/L	30.0	10		09/15/16 20:39	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	101	%	80-120	1		09/15/16 04:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%	77-130	1		09/15/16 04:09	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127	1		09/15/16 04:09	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		09/15/16 04:09		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch: 446323 Analysis Method: EPA 6010

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

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

METHOD BLANK: 1824777 Matrix: Water

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	09/16/16 13:54	
Selenium, Dissolved	ug/L	ND	15.0	09/16/16 13:54	

LABORATORY CONTROL SAMPLE: 1824778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	976	98	80-120	
Selenium, Dissolved	ug/L	1000	1000	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1824779 1824780

Parameter	Units	MS Result	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	758	1000	1000	1730	1750	97	99	75-125	1	20
Selenium, Dissolved	ug/L	ND	1000	1000	1090	1100	108	109	75-125	1	20

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch: 446568 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007,  
60227374008, 60227374009

METHOD BLANK: 1825959 Matrix: Water

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007,  
60227374008, 60227374009

Parameter	Units	Blank Result	Reporting		Qualifiers
			Limit	Analyzed	
Benzene	ug/L	ND	1.0	09/15/16 00:26	
Ethylbenzene	ug/L	ND	1.0	09/15/16 00:26	
Toluene	ug/L	ND	1.0	09/15/16 00:26	
Xylene (Total)	ug/L	ND	3.0	09/15/16 00:26	
1,2-Dichloroethane-d4 (S)	%	96	81-127	09/15/16 00:26	
4-Bromofluorobenzene (S)	%	104	77-130	09/15/16 00:26	
Toluene-d8 (S)	%	97	80-120	09/15/16 00:26	

LABORATORY CONTROL SAMPLE: 1825960

Parameter	Units	Spike Conc.	LCS		% Rec Limits	Qualifiers
			Result	% Rec		
Benzene	ug/L	20	21.0	105	79-116	
Ethylbenzene	ug/L	20	18.6	93	81-110	
Toluene	ug/L	20	19.3	97	82-111	
Xylene (Total)	ug/L	60	54.1	90	80-111	
1,2-Dichloroethane-d4 (S)	%			93	81-127	
4-Bromofluorobenzene (S)	%			101	77-130	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1825961 1825962

Parameter	Units	MS	MSD	MS	MSD	% Rec	MSD % Rec	% Rec Limits	Max	RPD	RPD	Qual
		60227293005 Result	Spike Conc.						RPD			
Benzene	ug/L	22.9	200	200	228	223	103	100	37-151	2	40	
Ethylbenzene	ug/L	332	200	200	521	510	94	89	29-151	2	45	
Toluene	ug/L	ND	200	200	188	187	94	93	37-147	1	43	
Xylene (Total)	ug/L	3450	600	600	4020	3940	94	82	27-156	2	46	
1,2-Dichloroethane-d4 (S)	%						96	94	81-127			
4-Bromofluorobenzene (S)	%						100	100	77-130			
Toluene-d8 (S)	%						98	98	80-120			
Preservation pH		1.0			1.0	1.0				0		

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Parameter	Units	60227374008		MSD		1825964		% Rec	MSD % Rec	% Rec Limits	Max	
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec				RPD RPD	RPD RPD
Benzene	ug/L	270	100	100	383	361	113	91	94	37-151	6	40
Ethylbenzene	ug/L	29.1	100	100	125	116	96	87	96	29-151	7	45
Toluene	ug/L	901	100	100	1070	987	168	86	96	37-147	8	43 M1
Xylene (Total)	ug/L	670	300	300	1000	942	110	91	96	27-156	6	46
1,2-Dichloroethane-d4 (S)	%						94	96	96	81-127		
4-Bromofluorobenzene (S)	%						101	101	101	77-130		
Toluene-d8 (S)	%						99	97	97	80-120		
Preservation pH		1.0			1.0	1.0					0	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch:	446710	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60227374009		

METHOD BLANK: 1826755 Matrix: Water

Associated Lab Samples: 60227374009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	09/15/16 18:10	
Toluene	ug/L	ND	1.0	09/15/16 18:10	
Xylene (Total)	ug/L	ND	3.0	09/15/16 18:10	
1,2-Dichloroethane-d4 (S)	%	97	81-127	09/15/16 18:10	
4-Bromofluorobenzene (S)	%	104	77-130	09/15/16 18:10	
Toluene-d8 (S)	%	99	80-120	09/15/16 18:10	

LABORATORY CONTROL SAMPLE: 1826756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	21.9	109	79-116	
Toluene	ug/L	20	20.1	100	82-111	
Xylene (Total)	ug/L	60	56.3	94	80-111	
1,2-Dichloroethane-d4 (S)	%			95	81-127	
4-Bromofluorobenzene (S)	%			100	77-130	
Toluene-d8 (S)	%			99	80-120	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch:	446270	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60227374001, 60227374002		

METHOD BLANK: 1824412 Matrix: Water

Associated Lab Samples: 60227374001, 60227374002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/13/16 10:44	

LABORATORY CONTROL SAMPLE: 1824413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	959	96	80-120	

SAMPLE DUPLICATE: 1824414

Parameter	Units	60227342001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	808	852	5	10	

SAMPLE DUPLICATE: 1824415

Parameter	Units	60227342010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2890	2870	0	10	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch:	446271	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008		

METHOD BLANK: 1824416 Matrix: Water

Associated Lab Samples: 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	09/13/16 11:01	

LABORATORY CONTROL SAMPLE: 1824417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	962	96	80-120	

SAMPLE DUPLICATE: 1824418

Parameter	Units	60227374008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2300	2410	5	10	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch: 447747 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

METHOD BLANK: 1831529 Matrix: Water

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	09/24/16 16:27	

LABORATORY CONTROL SAMPLE: 1831530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE SAMPLE: 1831531

Parameter	Units	60227374008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	1500	500	2050	109	80-120	

MATRIX SPIKE SAMPLE: 1831532

Parameter	Units	60227819001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	954	500	1050	19	80-120	M1

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

QC Batch: 446048 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

METHOD BLANK: 1823496 Matrix: Water

Associated Lab Samples: 60227374001, 60227374002, 60227374003, 60227374004, 60227374005, 60227374006, 60227374007, 60227374008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/10/16 16:23	

LABORATORY CONTROL SAMPLE: 1823497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	108	85-115	

MATRIX SPIKE SAMPLE: 1823498

Parameter	Units	60227300002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.25	1.6	2.0	107	85-115	

MATRIX SPIKE SAMPLE: 1823688

Parameter	Units	60227374008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	13.7	16	29.2	97	85-115 H3	

SAMPLE DUPLICATE: 1823499

Parameter	Units	60227369001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	0.13	0.12	12	20	

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## QUALIFIERS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 446710

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

### ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60227374

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60227374001	GW-075034-090716-SP-MW-1	EPA 3010	446323	EPA 6010	446417
60227374002	GW-075034-090716-SP-MW-2	EPA 3010	446323	EPA 6010	446417
60227374003	GW-075034-090716-SP-MW-3	EPA 3010	446323	EPA 6010	446417
60227374004	GW-075034-090716-SP-MW-4	EPA 3010	446323	EPA 6010	446417
60227374005	GW-075034-090716-SP-MW-5	EPA 3010	446323	EPA 6010	446417
60227374006	GW-075034-090716-SP-MW-6	EPA 3010	446323	EPA 6010	446417
60227374007	GW-075034-090716-SP-MW-7	EPA 3010	446323	EPA 6010	446417
60227374008	GW-075034-090716-SP-MW-8R	EPA 3010	446323	EPA 6010	446417
60227374001	GW-075034-090716-SP-MW-1	EPA 8260	446568		
60227374002	GW-075034-090716-SP-MW-2	EPA 8260	446568		
60227374003	GW-075034-090716-SP-MW-3	EPA 8260	446568		
60227374004	GW-075034-090716-SP-MW-4	EPA 8260	446568		
60227374005	GW-075034-090716-SP-MW-5	EPA 8260	446568		
60227374006	GW-075034-090716-SP-MW-6	EPA 8260	446568		
60227374007	GW-075034-090716-SP-MW-7	EPA 8260	446568		
60227374008	GW-075034-090716-SP-MW-8R	EPA 8260	446568		
60227374009	GW-075034-090716-SP-DUP	EPA 8260	446568		
60227374009	GW-075034-090716-SP-DUP	EPA 8260	446710		
60227374001	GW-075034-090716-SP-MW-1	SM 2540C	446270		
60227374002	GW-075034-090716-SP-MW-2	SM 2540C	446270		
60227374003	GW-075034-090716-SP-MW-3	SM 2540C	446271		
60227374004	GW-075034-090716-SP-MW-4	SM 2540C	446271		
60227374005	GW-075034-090716-SP-MW-5	SM 2540C	446271		
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60227374001	GW-075034-090716-SP-MW-1	EPA 300.0	447747		
60227374002	GW-075034-090716-SP-MW-2	EPA 300.0	447747		
60227374003	GW-075034-090716-SP-MW-3	EPA 300.0	447747		
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60227374006	GW-075034-090716-SP-MW-6	EPA 300.0	447747		
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60227374008	GW-075034-090716-SP-MW-8R	EPA 300.0	447747		
60227374001	GW-075034-090716-SP-MW-1	EPA 353.2	446048		
60227374002	GW-075034-090716-SP-MW-2	EPA 353.2	446048		
60227374003	GW-075034-090716-SP-MW-3	EPA 353.2	446048		
60227374004	GW-075034-090716-SP-MW-4	EPA 353.2	446048		
60227374005	GW-075034-090716-SP-MW-5	EPA 353.2	446048		
60227374006	GW-075034-090716-SP-MW-6	EPA 353.2	446048		
60227374007	GW-075034-090716-SP-MW-7	EPA 353.2	446048		
60227374008	GW-075034-090716-SP-MW-8R	EPA 353.2	446048		

**REPORT OF LABORATORY ANALYSIS**

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without the written consent of Pace Analytical Services, Inc..



Sample Condition Upon Receipt  
ESI Tech Spec Client

WO# : 60227374



60227374

Client Name: GHD COP

Courier: FedEx  UPS  VIA  Clay  PEX  ECI  Pace  Xroads  Client  Other

Tracking #: No tracking info on cooler Pace Shipping Label Used? Yes  No

Custody Seal on Cooler/Box Present: Yes  No  Seals intact: Yes  No

Packing Material: Bubble Wrap  Bubble Bags  Foam  None  Other

Thermometer Used: CF +1.1 / T-266 / T-239 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2.5 Corr. Factor CF +1.1 CF -0.1 Corrected 3.6

Date and initials of person examining contents: JB 9/10

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples arrived within holding time:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Sufficient volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Samples contain multiple phases? Matrix: WT	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Containers requiring pH preservation in compliance? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Cyanide water sample checks:	<input checked="" type="checkbox"/> N/A
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

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

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

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start: 0915 Start:

End: 0924 End:

Temp: Temp:

Project Manager Review: alice

Date: 09/12/16



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoicing Information:																																																																																																																		
Company: Address: Email: Phone: Requested Due Date:	GHD Services COP NM 6212 Indian School Rd NE S12 Albuquerque, NM 87110 christine.mathews@ghd.com 505-864-0672	Report To: Copy To: Purchase Order #: Project Name: Project #:	Christine Mathews Jeff Walker, Angela Brown 34005849 075034 COP San Juan 29-7 No 37 8644, 3	Attention: Address: Page Quote: Page Project Manager: Page Profile #:																																																																																																																		
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December 19, 2016

Jeffrey Walker  
GHD Services, Inc  
6121 Indian School Rd NE  
Ste 200  
Albuquerque, NM 87110

RE: Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60233523

Dear Jeffrey Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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 Spiller  
alice.spiller@pacelabs.com  
Project Manager

Enclosures

cc: Angela Bown, GHD Services, Inc,



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60233523

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### Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219	Nevada Certification #: KS000212008A
WY STR Certification #: 2456.01	Oklahoma Certification #: 9205/9935
Arkansas Certification #: 15-016-0	Texas Certification #: T104704407
Illinois Certification #: 003097	Utah Certification #: KS00021
Iowa Certification #: 118	Kansas Field Laboratory Accreditation: # E-92587
Kansas/NELAP Certification #: E-10116	Missouri Certification: 10070
Louisiana Certification #: 03055	

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60233523001	GW-075034-120116-JK-MW-1	Water	12/01/16 16:00	12/03/16 08:20
60233523002	GW-075034-120116-JK-MW-2	Water	12/01/16 15:20	12/03/16 09:15
60233523003	GW-075034-113016-JK-MW-3	Water	12/01/16 11:00	12/03/16 09:15
60233523004	GW-075034-120216-JK-MW-4	Water	12/02/16 10:00	12/03/16 09:15
60233523005	GW-075034-120116-JK-MW-5	Water	12/01/16 15:20	12/03/16 09:15
60233523006	GW-075034-120216-JK-MW-6	Water	12/02/16 09:02	12/03/16 09:15
60233523007	GW-075034-120216-JK-MW-7	Water	12/02/16 09:15	12/03/16 09:15
60233523008	GW-075034-120116-JK-MW-8R	Water	12/01/16 15:42	12/03/16 09:15
60233523009	TRIP BLANK	Water	12/01/16 11:00	12/03/16 09:15

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60233523001	GW-075034-120116-JK-MW-1	EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
60233523002	GW-075034-120116-JK-MW-2	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
60233523003	GW-075034-113016-JK-MW-3	EPA 6010	JGP	2
		EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
60233523004	GW-075034-120216-JK-MW-4	EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
		EPA 6010	JGP	2
60233523005	GW-075034-120116-JK-MW-5	EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
		EPA 6010	JGP	2
60233523006	GW-075034-120216-JK-MW-6	EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
		EPA 6010	JGP	2
60233523007	GW-075034-120216-JK-MW-7	EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1
		EPA 6010	JGP	2
60233523008	GW-075034-120116-JK-MW-8R	EPA 8260	JTK	8
		SM 2540C	JSS	1
		EPA 300.0	OL	1
		EPA 353.2	LDB	1

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

---

**Method:** **EPA 6010**

**Description:** 6010 MET ICP, Dissolved

**Client:** GHD Services\_COP NM

**Date:** December 19, 2016

### **General Information:**

4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

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

### **Sample Preparation:**

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

### **Initial Calibrations (including MS Tune as applicable):**

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

### **Continuing Calibration:**

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

### **Method Blank:**

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

### **Laboratory Control Spike:**

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

### **Matrix Spikes:**

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

### **Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

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**Method:** **EPA 8260**

**Description:** 8260 MSV UST, Water

**Client:** GHD Services\_COP NM

**Date:** December 19, 2016

**General Information:**

8 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

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

**Initial Calibrations (including MS Tune as applicable):**

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

**Continuing Calibration:**

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

**Internal Standards:**

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

**Surrogates:**

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

**Method Blank:**

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

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

QC Batch: 458436

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

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**Method:** **SM 2540C**

**Description:** 2540C Total Dissolved Solids

**Client:** GHD Services\_COP NM

**Date:** December 19, 2016

**General Information:**

8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**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, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Duplicate Sample:**

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

**Additional Comments:**

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

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**Method:** EPA 300.0

**Description:** 300.0 IC Anions 28 Days

**Client:** GHD Services\_COP NM

**Date:** December 19, 2016

**General Information:**

8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**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, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

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

**Matrix Spikes:**

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

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60233523

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**Method:** EPA 353.2

**Description:** 353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres

**Client:** GHD Services\_COP NM

**Date:** December 19, 2016

### General Information:

8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### 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, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

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

### Matrix Spikes:

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

QC Batch: 457507

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60233523003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1873124)
- Nitrogen, Nitrate

### 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.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Sample: GW-075034-120116-JK-MW-1	Lab ID: 60233523001	Collected: 12/01/16 16:00	Received: 12/03/16 08:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 20:44	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 20:44	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 20:44	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 20:44	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	80-120	1		12/12/16 20:44	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		12/12/16 20:44	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-127	1		12/12/16 20:44	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 20:44		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2410</b>	mg/L	5.0	1		12/07/16 13:36		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1450</b>	mg/L	100	100		12/17/16 11:00	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>0.53</b>	mg/L	0.10	1		12/03/16 10:09		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Sample: GW-075034-120116-JK-MW-2	Lab ID: 60233523002	Collected: 12/01/16 15:20	Received: 12/03/16 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	ND	ug/L	5.0	1	12/07/16 11:10	12/14/16 11:52	7439-96-5	
Selenium, Dissolved	<b>75.9</b>	ug/L	15.0	1	12/07/16 11:10	12/14/16 11:52	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 20:59	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 20:59	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 20:59	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 20:59	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	80-120	1		12/12/16 20:59	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		12/12/16 20:59	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		12/12/16 20:59	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 20:59		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2410</b>	mg/L	5.0	1		12/07/16 13:36		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1290</b>	mg/L	100	100		12/17/16 11:42	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>33.6</b>	mg/L	1.0	10		12/03/16 10:06		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Sample: GW-075034-113016-JK-MW-3	Lab ID: 60233523003	Collected: 12/01/16 11:00	Received: 12/03/16 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>1980</b>	ug/L	5.0	1	12/07/16 11:10	12/14/16 11:56	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	12/07/16 11:10	12/14/16 11:56	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 21:14	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 21:14	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 21:14	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 21:14	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	80-120	1		12/12/16 21:14	2037-26-5	
4-Bromofluorobenzene (S)	100	%	77-130	1		12/12/16 21:14	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		12/12/16 21:14	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 21:14		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1970</b>	mg/L	5.0	1		12/07/16 13:37		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1080</b>	mg/L	100	100		12/17/16 12:38	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>6.9</b>	mg/L	0.30	3		12/03/16 10:04		M1

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

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**Sample: GW-075034-120216-JK-MW-4**      **Lab ID: 60233523004**      Collected: 12/02/16 10:00      Received: 12/03/16 09:15      Matrix: Water

---

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 21:28	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 21:28	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 21:28	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 21:28	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	80-120	1		12/12/16 21:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%	77-130	1		12/12/16 21:28	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		12/12/16 21:28	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 21:28		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1950</b>	mg/L	5.0	1		12/07/16 13:39		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1250</b>	mg/L	100	100		12/17/16 12:52	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>6.9</b>	mg/L	0.30	3		12/03/16 10:15		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Sample: GW-075034-120116-JK-MW-5	Lab ID: 60233523005	Collected: 12/01/16 15:20	Received: 12/03/16 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>214</b>	ug/L	5.0	1	12/07/16 11:10	12/14/16 12:00	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	12/07/16 11:10	12/14/16 12:00	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 21:43	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 21:43	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 21:43	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 21:43	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	103	%	80-120	1		12/12/16 21:43	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		12/12/16 21:43	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127	1		12/12/16 21:43	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 21:43		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2630</b>	mg/L	5.0	1		12/07/16 13:37		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1680</b>	mg/L	200	200		12/17/16 13:06	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		12/03/16 10:02		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Sample: GW-075034-120216-JK-MW-6	Lab ID: 60233523006	Collected: 12/02/16 09:02	Received: 12/03/16 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 21:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 21:58	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 21:58	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 21:58	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	80-120	1		12/12/16 21:58	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		12/12/16 21:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-127	1		12/12/16 21:58	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 21:58		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>1860</b>	mg/L	5.0	1		12/07/16 13:40		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>936</b>	mg/L	100	100		12/18/16 10:42	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>24.8</b>	mg/L	1.0	10		12/03/16 10:14		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

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**Sample: GW-075034-120216-JK-MW-7**      **Lab ID: 60233523007**      Collected: 12/02/16 09:15      Received: 12/03/16 09:15      Matrix: Water

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Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	ND	ug/L	1.0	1		12/12/16 22:13	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/12/16 22:13	100-41-4	
Toluene	ND	ug/L	1.0	1		12/12/16 22:13	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		12/12/16 22:13	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	102	%	80-120	1		12/12/16 22:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	1		12/12/16 22:13	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		12/12/16 22:13	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	1		12/12/16 22:13		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>3090</b>	mg/L	5.0	1		12/07/16 13:40		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1950</b>	mg/L	200	200		12/17/16 13:33	14808-79-8	
<b>353.2 Nitrogen, NO2/NO3 unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>17.3</b>	mg/L	1.0	10		12/03/16 10:14		

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## ANALYTICAL RESULTS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60233523

Sample: GW-075034-120116-JK-MW-8R	Lab ID: 60233523008	Collected: 12/01/16 15:42	Received: 12/03/16 09:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Manganese, Dissolved	<b>488</b>	ug/L	5.0	1	12/07/16 11:10	12/14/16 12:04	7439-96-5	
Selenium, Dissolved	ND	ug/L	15.0	1	12/07/16 11:10	12/14/16 12:04	7782-49-2	
<b>8260 MSV UST, Water</b>	Analytical Method: EPA 8260							
Benzene	<b>162</b>	ug/L	5.0	5		12/12/16 22:28	71-43-2	
Ethylbenzene	ND	ug/L	5.0	5		12/12/16 22:28	100-41-4	
Toluene	<b>122</b>	ug/L	5.0	5		12/12/16 22:28	108-88-3	
Xylene (Total)	<b>246</b>	ug/L	15.0	5		12/12/16 22:28	1330-20-7	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	80-120	5		12/12/16 22:28	2037-26-5	
4-Bromofluorobenzene (S)	99	%	77-130	5		12/12/16 22:28	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-127	5		12/12/16 22:28	17060-07-0	
Preservation pH	<b>1.0</b>		1.0	5		12/12/16 22:28		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C							
Total Dissolved Solids	<b>2260</b>	mg/L	5.0	1		12/07/16 13:38		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0							
Sulfate	<b>1320</b>	mg/L	100	100		12/17/16 13:47	14808-79-8	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> unpres</b>	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	<b>17.6</b>	mg/L	1.0	10		12/03/16 10:13		

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

QC Batch:	457895	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
Associated Lab Samples:	60233523002, 60233523003, 60233523005, 60233523008		

METHOD BLANK: 1874477 Matrix: Water

Associated Lab Samples: 60233523002, 60233523003, 60233523005, 60233523008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Manganese, Dissolved	ug/L	ND	5.0	12/14/16 11:08	
Selenium, Dissolved	ug/L	ND	15.0	12/14/16 11:08	

LABORATORY CONTROL SAMPLE: 1874478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese, Dissolved	ug/L	1000	1020	102	80-120	
Selenium, Dissolved	ug/L	1000	1040	104	80-120	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1874479 1874481

Parameter	Units	60233393001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
Manganese, Dissolved	ug/L	95.9	1000	1000	1080	1060	98	97	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	75-125	1	20	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

QC Batch:	458436	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523006, 60233523007, 60233523008		

METHOD BLANK: 1876730 Matrix: Water

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523006, 60233523007, 60233523008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/12/16 20:29	
Ethylbenzene	ug/L	ND	1.0	12/12/16 20:29	
Toluene	ug/L	ND	1.0	12/12/16 20:29	
Xylene (Total)	ug/L	ND	3.0	12/12/16 20:29	
1,2-Dichloroethane-d4 (S)	%	95	81-127	12/12/16 20:29	
4-Bromofluorobenzene (S)	%	99	77-130	12/12/16 20:29	
Toluene-d8 (S)	%	104	80-120	12/12/16 20:29	

LABORATORY CONTROL SAMPLE: 1876731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.0	85	79-116	
Ethylbenzene	ug/L	20	18.8	94	81-110	
Toluene	ug/L	20	18.1	90	82-111	
Xylene (Total)	ug/L	60	57.3	96	80-111	
1,2-Dichloroethane-d4 (S)	%			94	81-127	
4-Bromofluorobenzene (S)	%			100	77-130	
Toluene-d8 (S)	%			105	80-120	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

QC Batch: 457970 Analysis Method: SM 2540C

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

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523006, 60233523007, 60233523008

METHOD BLANK: 1874702 Matrix: Water

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523006, 60233523007, 60233523008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/07/16 13:33	

LABORATORY CONTROL SAMPLE: 1874703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1030	103	80-120	

SAMPLE DUPLICATE: 1874704

Parameter	Units	60233523001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2410	2300	5	10	

SAMPLE DUPLICATE: 1874705

Parameter	Units	60233523007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3090	3070	1	10	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

QC Batch: 458963 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523007, 60233523008

METHOD BLANK: 1878843 Matrix: Water

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523007, 60233523008

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Sulfate	mg/L	ND	1.0	12/17/16 09:14	

LABORATORY CONTROL SAMPLE: 1878844

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Sulfate	mg/L	5	5.0	99	90-110	

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 1878845 1878846

Parameter	Units	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		60233523001	Spike										
Sulfate	mg/L	1450	500	500	1990	1980	108	107	80-120	0	15		

MATRIX SPIKE SAMPLE: 1878847

Parameter	Units	60233523002	Spike	MS	MS	% Rec	% Rec	Qualifiers
		Result	Conc.	Result	% Rec	Limits		
Sulfate	mg/L	1290	500	1820	105	80-120		

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

QC Batch:	459380	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples: 60233523006			

METHOD BLANK: 1881099	Matrix: Water
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Associated Lab Samples: 60233523006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	12/18/16 09:25	

LABORATORY CONTROL SAMPLE: 1881100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	4.9	97	90-110	

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## QUALITY CONTROL DATA

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

QC Batch: 457507 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523006, 60233523007, 60233523008

METHOD BLANK: 1873122 Matrix: Water

Associated Lab Samples: 60233523001, 60233523002, 60233523003, 60233523004, 60233523005, 60233523006, 60233523007, 60233523008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	12/03/16 09:58	

LABORATORY CONTROL SAMPLE: 1873123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	1.1	105	85-115	

MATRIX SPIKE SAMPLE: 1873124

Parameter	Units	60233523003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	6.9	3	9.4	82	85-115	M1

SAMPLE DUPLICATE: 1873125

Parameter	Units	60233523005 Result	Dup Result	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	.025J	20	

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## QUALIFIERS

Project: 075034 COP SAN JUAN 29-7 NO 37  
Pace Project No.: 60233523

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 458436

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

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 075034 COP SAN JUAN 29-7 NO 37

Pace Project No.: 60233523

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60233523002	GW-075034-120116-JK-MW-2	EPA 3010	457895	EPA 6010	457953
60233523003	GW-075034-113016-JK-MW-3	EPA 3010	457895	EPA 6010	457953
60233523005	GW-075034-120116-JK-MW-5	EPA 3010	457895	EPA 6010	457953
60233523008	GW-075034-120116-JK-MW-8R	EPA 3010	457895	EPA 6010	457953
60233523001	GW-075034-120116-JK-MW-1	EPA 8260	458436		
60233523002	GW-075034-120116-JK-MW-2	EPA 8260	458436		
60233523003	GW-075034-113016-JK-MW-3	EPA 8260	458436		
60233523004	GW-075034-120216-JK-MW-4	EPA 8260	458436		
60233523005	GW-075034-120116-JK-MW-5	EPA 8260	458436		
60233523006	GW-075034-120216-JK-MW-6	EPA 8260	458436		
60233523007	GW-075034-120216-JK-MW-7	EPA 8260	458436		
60233523008	GW-075034-120116-JK-MW-8R	EPA 8260	458436		
60233523001	GW-075034-120116-JK-MW-1	SM 2540C	457970		
60233523002	GW-075034-120116-JK-MW-2	SM 2540C	457970		
60233523003	GW-075034-113016-JK-MW-3	SM 2540C	457970		
60233523004	GW-075034-120216-JK-MW-4	SM 2540C	457970		
60233523005	GW-075034-120116-JK-MW-5	SM 2540C	457970		
60233523006	GW-075034-120216-JK-MW-6	SM 2540C	457970		
60233523007	GW-075034-120216-JK-MW-7	SM 2540C	457970		
60233523008	GW-075034-120116-JK-MW-8R	SM 2540C	457970		
60233523001	GW-075034-120116-JK-MW-1	EPA 300.0	458963		
60233523002	GW-075034-120116-JK-MW-2	EPA 300.0	458963		
60233523003	GW-075034-113016-JK-MW-3	EPA 300.0	458963		
60233523004	GW-075034-120216-JK-MW-4	EPA 300.0	458963		
60233523005	GW-075034-120116-JK-MW-5	EPA 300.0	458963		
60233523006	GW-075034-120216-JK-MW-6	EPA 300.0	459380		
60233523007	GW-075034-120216-JK-MW-7	EPA 300.0	458963		
60233523008	GW-075034-120116-JK-MW-8R	EPA 300.0	458963		
60233523001	GW-075034-120116-JK-MW-1	EPA 353.2	457507		
60233523002	GW-075034-120116-JK-MW-2	EPA 353.2	457507		
60233523003	GW-075034-113016-JK-MW-3	EPA 353.2	457507		
60233523004	GW-075034-120216-JK-MW-4	EPA 353.2	457507		
60233523005	GW-075034-120116-JK-MW-5	EPA 353.2	457507		
60233523006	GW-075034-120216-JK-MW-6	EPA 353.2	457507		
60233523007	GW-075034-120216-JK-MW-7	EPA 353.2	457507		
60233523008	GW-075034-120116-JK-MW-8R	EPA 353.2	457507		

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



Sample Condition Upon Receipt  
ESI Tech Spec Client

WO# : 60233523



60233523

AFS

Client Name: GHD - Cop

Courier: FedEx  UPS  VIA  Clay  PEX  ECI  Pace  Xroads  Client  Other

Tracking #: 7044 6656 7916 Pace Shipping Label Used? Yes  No

Custody Seal on Cooler/Box Present: Yes  No  Seals intact: Yes  No

Packing Material: Bubble Wrap  Bubble Bags  Foam  None  Other

Thermometer Used: T-266 // T-239

Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 2.1 Corr. Factor CF +0.7 CF -0.5 Corrected 2.8

Date and initials of person examining contents:

RR ref 12/3/16

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	- No 2/3 for <u>Nano 3</u> read out of box <sup>BB 12/3</sup> → Container labels say collected 11/30/16,
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>COC says collected 12/01/16, 12/02</u>
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No 2/3 will log w/ date on COC
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	- Client requesting lab filter off HNO <sub>3</sub> containers for 4 samples → this would lead to pot. diss. analysis of metals.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	- if unpreserved volume is filtered for diss. metals it will show vol me w/ TDS anions and NO <sub>2/3</sub> analysis.
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	- The date portion of all container labels say 11/30/16 → meaning only MW-3 labels match COC ID.
Samples contain multiple phases? Matrix: <u>WT</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Cyanide water sample checks:	<input type="checkbox"/> N/A	
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	on TB vial read broken
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client?

Y  N

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start: 6905 Start:

End: 0915 End:

Temp: Temp:

Project Manager Review:

Mice

Date: 12/5/16



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																																																																																						
Company: GHD Services COP NM	Report To: Christine Mathews	Copy To: Jeff Walker, Angela Brown	Attention: Company Name: Address: Purchase Order #: 3405849	Regulatory Agency																																																																																																																																																																																																																																																																																																																						
Address: 6212 Indian School Rd NE Ste 22 Albuquerque, NM 87110			Phone Quote: Project Name: 075034 COP San Juan 29-7 No 37	Pace Project Manager: alice.spiller@pace-labs.com,	State / Location: NM																																																																																																																																																																																																																																																																																																																					
Email: christine.mathews@ghd.com			Project #: 8644_3																																																																																																																																																																																																																																																																																																																							
Phone: 505-384-0572	Fax:																																																																																																																																																																																																																																																																																																																									
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