

First Quarter 2017 Groundwater Monitoring Summary Report

Tampa Compressor Station Release Weld County, Colorado Remediation #9353

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Table of Contents

1. Introduction	1
2. Site Location and Background.....	1
3. Groundwater Monitoring.....	2
3.1 Groundwater Elevation Monitoring.....	2
3.2 Groundwater Quality Monitoring	2
4. Remediation Activities	3
5. Conclusions	4
6. Recommendations	4

Tables

1	First Quarter 2017 Summary of Groundwater Elevation Data
2	First Quarter 2017 Summary of BTEX Concentrations in Groundwater

Figures

1	Site Location Map
2	Site Map with Monitoring Well Locations
3	Groundwater Elevation Contour Map – February 1, 2017
4	Analytical Results Map – February 1, 2017

Appendices

A	Historic Analytical Results – BTEX Concentrations in Groundwater
B	Laboratory Analytical Report – Summit Scientific - 1702010

1. Introduction

This report summarizes the groundwater monitoring activities conducted during the first quarter 2017 at the Tampa Compressor Station, Weld County, Colorado (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). The field activities were conducted with the purpose of monitoring groundwater flow and quality conditions in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period on February 1, 2017.

2. Site Location and Background

The Site is located in the southwestern quarter of the southwestern quarter of Section 31, Township 3 North, Range 63 West (approximate coordinates 40.176595 degrees north and -104.489837 degrees west), approximately 5 miles north on County Road (CR) 59 from Keenesburg, Colorado.

A petroleum hydrocarbon release originating from an underground pipeline occurred at the Site resulting in surface soil staining. DCP submitted an initial Form 19 on February 2, 2015, with a Supplemental Form 19 submitted on February 10, 2015, and the Colorado Oil and Gas Conservation Commission (COGCC) issued a spill tracking facility ID# 440770 for the Site.

Initial soil investigation activities conducted on February 2, 2015, indicated that surface soil impacts were above COGCC standards. On February 6, 2015, hydrovacuum excavation and soil removal activities of the surface stained soils to approximately 1-foot below ground surface (bgs) was conducted and approximately 14 cubic yards (yd³) of material was removed.

On February 13, 2015, three soil borings (BH01 – BH03) were advanced and soil samples were collected from just above the saturated interval at each location. On February 19, 2015, groundwater monitoring activities were conducted at the well locations and light non-aqueous phase liquid (LNAPL) was observed in monitoring wells BH01 and BH03 with measured thicknesses of 3.14 feet and 1.83 feet, respectively. A groundwater sample was collected from BH02 and the laboratory analytical results from that well were below COGCC Table 910-1 standards. Locations of the soil borings are illustrated on Figure 2.

On April 28, 2015, a vacuum enhanced fluid recovery (EFR) event was conducted at monitoring wells BH01 and BH03 and approximately 5 barrels (bbl) of liquid was removed during that event. Additional source area excavation activities were conducted at the site between May 6 and 22, 2015, and approximately 210 yd³ of impacted soil and 33 bbl of groundwater were removed during excavation. Soil samples were collected during excavation activities and based on the laboratory analytical results, impacted soil within the vadose zone remains in place in the northwest corner of the Site. Due to the existing infrastructure and off-site conditions, the soil was left in place and in-situ remediation activities have been conducted. Additionally, during the May 2015 excavation activities, monitoring well BH01 was destroyed.

A Form 27 was submitted to the COGCC on November 4, 2015, and the COGCC issued remediation #9353 for the Site. In accordance with the approved work plan described in the Form 27, DCP installed an

additional nine (9) temporary monitoring wells and replaced the destroyed BH01 (Figure 2). Furthermore, DCP initiated approved groundwater monitoring activities at the Site.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the first quarter 2017 groundwater monitoring event. Quarterly monitoring activities were conducted on February 1, 2017, and included Site-wide groundwater gauging and sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the first quarter 2017, groundwater levels were measured at 12 monitoring well locations (BH01R through BH12).

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and the calculated groundwater elevations are presented in Table 1.

A first quarter 2017 groundwater elevation contour map, included as Figure 3, indicates that groundwater flow at the Site generally trends to the northeast. The range of groundwater elevations, average elevation change from the previous monitoring event, and the calculated average hydraulic gradient (using elevations from BH04 and BH08) at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	First Quarter 2017 (2/1/2017)
Maximum Elevation (Well ID)	4,795.61 (BH04)
Minimum Elevation (Well ID)	4,795.03 (BH08)
Average Change from Previous Monitoring Event – All Wells	-0.08 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.0069 (BH04 to BH08)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from 12 monitor wells using disposable polyethylene bailers. Measurable LNAPL was observed within BH06 and LNAPL was purged along with 2.31 gallons of water and a groundwater sample was subsequently collected from the well.

A minimum of three well casing volumes of groundwater were purged from each monitor well prior to collecting groundwater samples. Groundwater samples were placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four degrees Celsius ($^{\circ}\text{C}$) for transportation to the laboratory. Groundwater samples were

then delivered under chain-of-custody procedures to Summit Scientific Laboratories (Summit) in Golden, Colorado for analysis.

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Historic analytical results up to and including the first quarter 2017 event are included in Appendix A and the laboratory analytical report for the first quarter 2017 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- Benzene concentrations in groundwater samples from wells BH05 (2,300 micrograms per liter [µg/L]), BH06 (2,000 µg/L), and BH07 (240 µg/L) were in exceedance of the COGCC Table 910-1 standard of 5 µg/L.
- The toluene concentration in the groundwater sample from well BH06 (800 µg/L) was in exceedance of the COGCC Table 910-1 standard of 560 µg/L.
- Ethylbenzene concentrations were not in exceedance of the COGCC Table 910-1 standard of 700 µg/L and any of the sampled monitor well locations.
- Total xylenes concentrations in groundwater samples from wells BH05 (1,800 µg/L), BH06 (2,100 µg/L), and BH07 (2,000 µg/L) were in exceedance of the COGCC Table 910-1 standard of 1,400 µg/L.
- BTEX concentrations from the remaining sample locations were below COGCC standards and/or below laboratory detection limits.
- LNAPL was observed in monitor well BH06 with a measurable thickness of 0.05 feet.

4. Remediation Activities

In accordance with the approved Form 27 Remediation Work Plan, vacuum enhanced fluid recovery (EFR) remediation activities were initiated at the Site during the second quarter 2016. During first quarter 2017, six (6) mobile EFR events were conducted at the Site. For each event the EFR was applied simultaneously at monitoring wells BH03, BH04, BH06, and BH11 for a minimum 6-hour period during each event. A total of approximately 170 barrels (bbls) of groundwater was removed during the first quarter 2017 EFR remediation events. A project total of approximately 1,088 barrels of liquid has been removed through EFR remediation activities. Recovered groundwater through EFR remediation was subsequently transported and disposed of at the NGL Water Solutions DJ, LLC, C-3 disposal well in LaSalle, CO.

5. Conclusions

Observations of the first quarter 2017 monitoring data provides the following:

- LNAPL was observed in BH06 during the first quarter 2017 with a measured thickness of 0.05 feet. The LNAPL was subsequently purged from the well and three well purge volumes were removed prior to collecting a laboratory analytical sample.
- Benzene concentrations that exceed the COGCC applicable groundwater standard was detected in three (3) of the 12 sampled monitoring wells.
- BTEX concentrations decreased throughout the Site when compared to the fourth quarter 2016 event with the exception of monitor well BH08 which increased from $<1.0 \mu\text{g/L}$ to $4.6 \mu\text{g/L}$. However, benzene concentrations decreased significantly at monitor wells BH05, BH06, BH07, and, of particular note, is the absence of LNAPL at monitor well BH04 as well as the decrease in dissolved phase benzene concentrations to below COGCC Table 910-1 standards at BH04 and BH11.

6. Recommendations

Based on evaluation of data from the first quarter 2017, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling activities at the well locations illustrated on Figure 2.
- Discontinue mobile EFR remediation activities at the Site during the second quarter 2017 to observe potential LNAPL recovery and/or dissolved phase BTEX concentration increases at the Site.

Tables

TABLE 1
FIRST QUARTER 2017 MONITORING EVENT
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
BH01R	5/27/2016	10.25			NM	4,805.57	4,795.32	0.25
BH01R	8/17/2016	9.86			15.89	4,805.57	4,795.71	0.39
BH01R	11/9/2016	10.13			NM	4,805.57	4,795.44	-0.27
BH01R	2/1/2017	10.24			NM	4,805.57	4,795.33	-0.11
BH02	5/27/2016	12.41			NM	4,807.70	4,795.29	1.14
BH02	8/17/2016	12.02			18.82	4,807.70	4,795.68	0.39
BH02	11/9/2016	12.30			NM	4,807.70	4,795.40	-0.28
BH02	2/1/2017	12.38			NM	4,807.70	4,795.32	-0.08
BH03	5/27/2016	9.16	9.15	0.01	NM	4,804.31	4,795.15	1.10
BH03	8/17/2016	8.78			16.43	4,804.31	4,795.53	0.37
BH03	11/9/2016	9.15			NM	4,804.31	4,795.16	-0.37
BH03	2/1/2017	9.13			NM	4,804.31	4,795.18	0.02
BH04	5/27/2016	11.40	11.39	0.01	NM	4,806.95	4,795.55	1.21
BH04	8/17/2016	11.09	11.03	0.06	16.25	4,806.95	4,795.90	0.35
BH04	11/9/2016	11.31	11.25	0.06	NM	4,806.95	4,795.68	-0.22
BH04	2/1/2017	11.34			NM	4,806.95	4,795.61	-0.07
BH05	5/27/2016	11.90			NM	4,806.51	4,794.61	0.31
BH05	8/17/2016	10.69			16.20	4,806.51	4,795.82	1.21
BH05	11/9/2016	10.98			NM	4,806.51	4,795.53	-0.29
BH05	2/1/2017	11.05			NM	4,806.51	4,795.46	-0.07
BH06	5/27/2016	11.17	11.08	0.09	NM	4,806.46	4,795.35	1.16
BH06	8/17/2016	10.73			15.94	4,806.46	4,795.73	0.37
BH06	11/9/2016	11.09	10.93	0.16	NM	4,806.46	4,795.49	-0.24
BH06	2/1/2017	11.12	11.07	0.05	NM	4,806.46	4,795.37	-0.11
BH07	5/27/2016	10.81			NM	4,806.01	4,795.20	1.15
BH07	8/17/2016	10.42			15.20	4,806.01	4,795.59	0.39
BH07	11/9/2016	10.69			NM	4,806.01	4,795.32	-0.27
BH07	2/1/2017	10.77			NM	4,806.01	4,795.24	-0.08
BH08	5/27/2016	8.80			NM	4,803.78	4,794.98	1.15
BH08	8/17/2016	8.39			15.16	4,803.78	4,795.39	0.41
BH08	11/9/2016	8.66			NM	4,803.78	4,795.12	-0.27
BH08	2/1/2017	8.75			NM	4,803.78	4,795.03	-0.09
BH09	5/27/2016	9.05			NM	4,804.08	4,795.03	1.15
BH09	8/17/2016	8.65			15.20	4,804.08	4,795.43	0.40
BH09	11/9/2016	8.89			NM	4,804.08	4,795.19	-0.24
BH09	2/1/2017	8.97			NM	4,804.08	4,795.11	-0.08
BH10	5/27/2016	10.05			NM	4,805.37	4,795.32	1.17
BH10	8/17/2016	9.66			15.28	4,805.37	4,795.71	0.39
BH10	11/9/2016	9.88			NM	4,805.37	4,795.49	-0.22
BH10	2/1/2017	9.97			NM	4,805.37	4,795.40	-0.09

TABLE 1
FIRST QUARTER 2017 MONITORING EVENT
SUMMARY OF GROUNDWATER ELEVATION DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
BH11	5/27/2016	9.81			NM	4,804.97	4,795.16	1.26
BH11	8/17/2016	9.42			14.49	4,804.97	4,795.55	0.39
BH11	11/9/2016	9.65			NM	4,804.97	4,795.32	-0.23
BH11	2/1/2017	9.72			NM	4,804.97	4,795.25	-0.07
BH12	5/27/2016	10.10			NM	4,805.13	4,795.03	1.18
BH12	8/17/2016	9.69			15.28	4,805.13	4,795.44	0.41
BH12	11/9/2016	9.92			NM	4,805.13	4,795.21	-0.22
BH12	2/1/2017	10.02			NM	4,805.13	4,795.11	-0.10
Average change in groundwater elevation (11/9/16 to 2/1/17)								-0.08

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density is assumed to be approximately 0.75

NA = Not Applicable

TD = Total Depth

TABLE 2
FIRST QUARTER 2017 MONITORING EVENT
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)⁽¹⁾		5	560	700	1,400	
BH01R	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH02	2/1/2017	<1.0	<1.0	1.9	<1.0	
BH03	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH04	2/1/2017	3.9	46	220	560	
BH05	2/1/2017	2,300	95	450	1,800	
BH06	2/1/2017	2,000	800	510	2,100	LNAPL
BH07	2/1/2017	240	30	410	2,000	
BH08	2/1/2017	4.6	<1.0	11	32	
BH09	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH10	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH11	2/1/2017	2.0	<1.0	290	330	
BH12	2/1/2017	<1.0	<1.0	<1.0	<1.0	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

Bold red values indicate an exceedance of the COGCC groundwater standards for the Site.

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

Figures

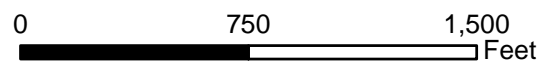
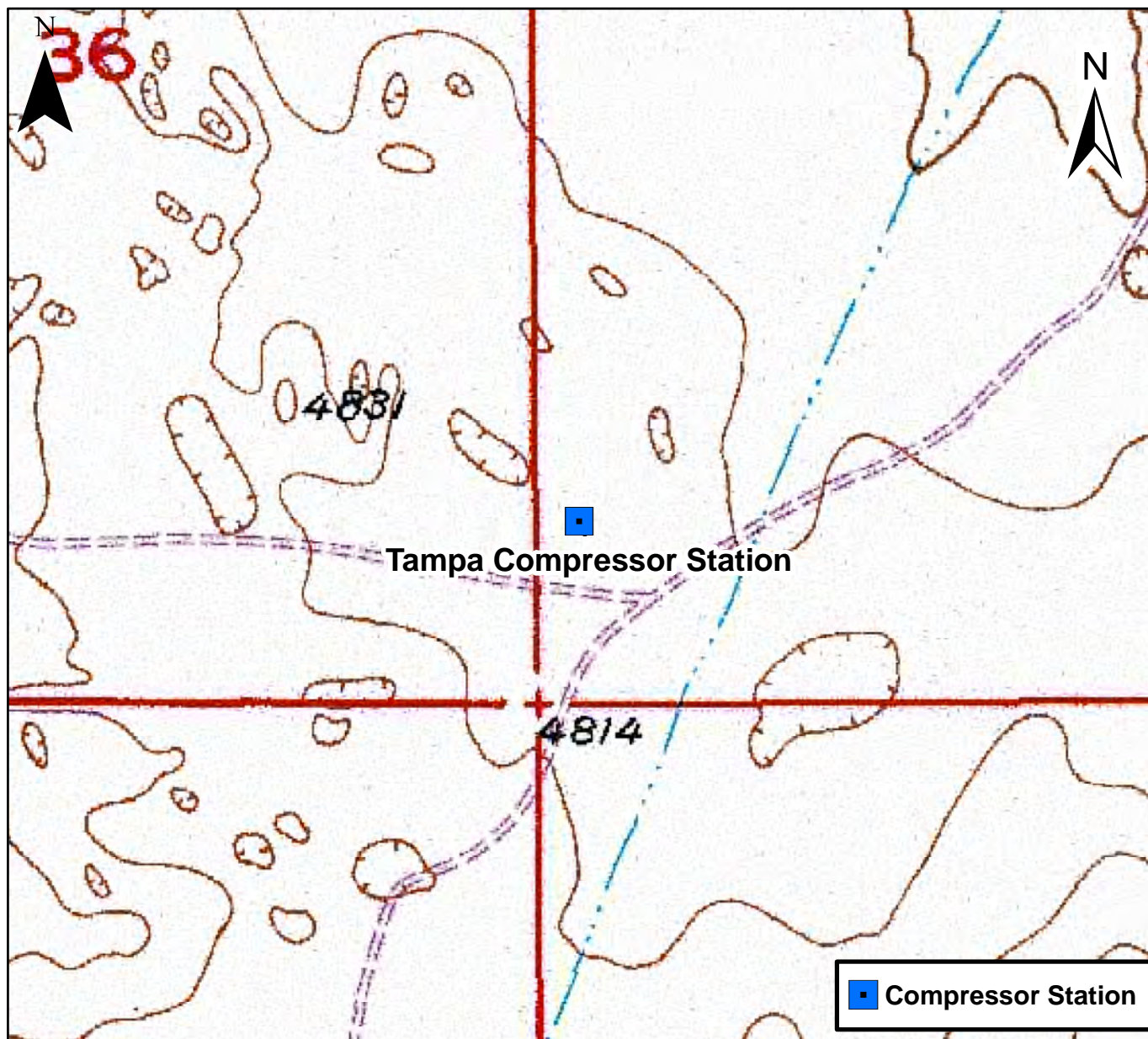
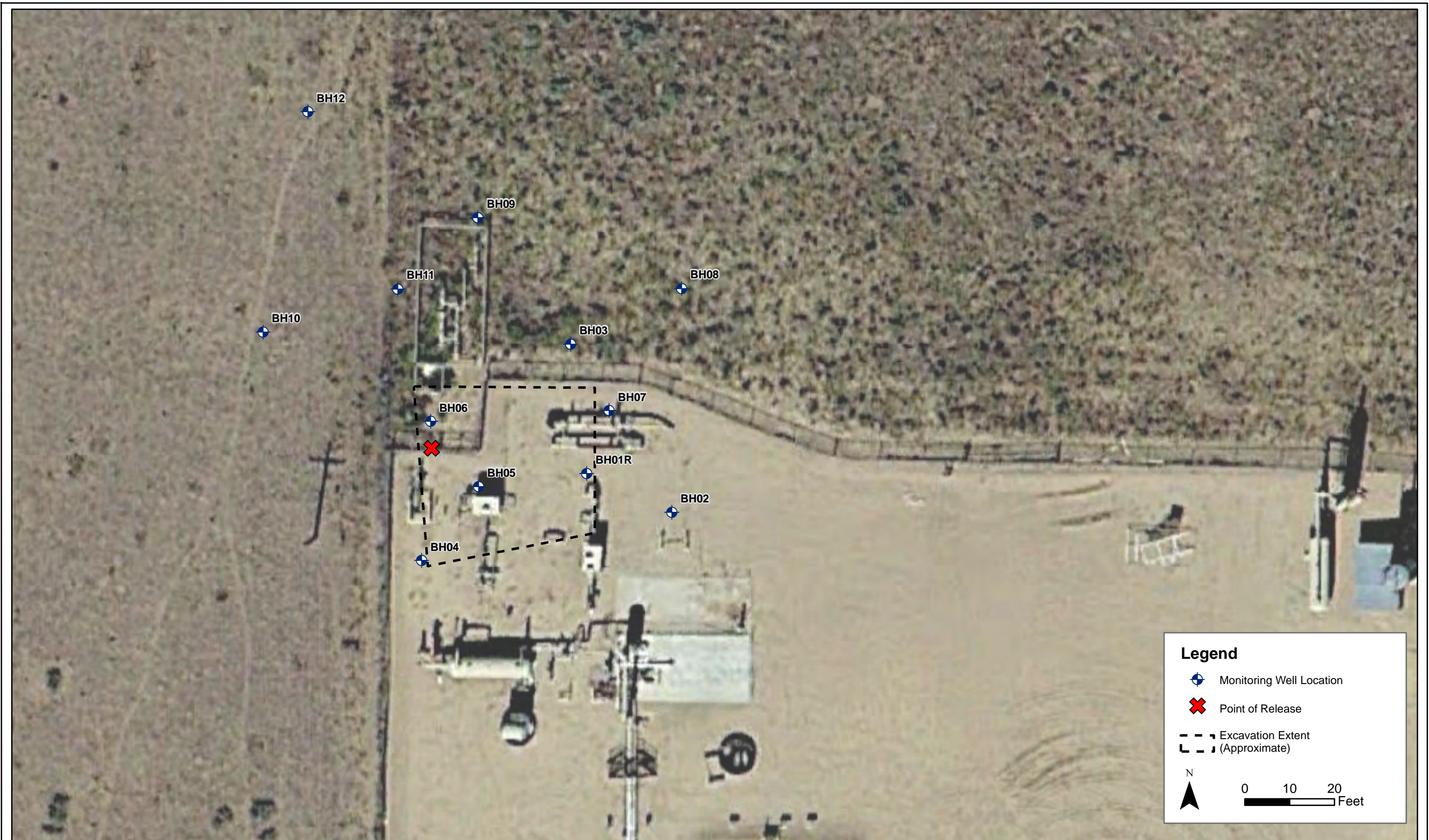


Figure 1

Site Location Map
Tampa Compressor Station
SWSW S31 T3N R63W
Weld County, Colorado





DATE:	December 2016
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold



TASMAN
GEOSCIENCES

Tasman Geosciences Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

**DCP Midstream
Tampa Compressor Station**
SWSW Section 31, Township 3 North, Range 63 West
Weld County, Colorado

Site Map with
Monitoring Well Location

Figure
2



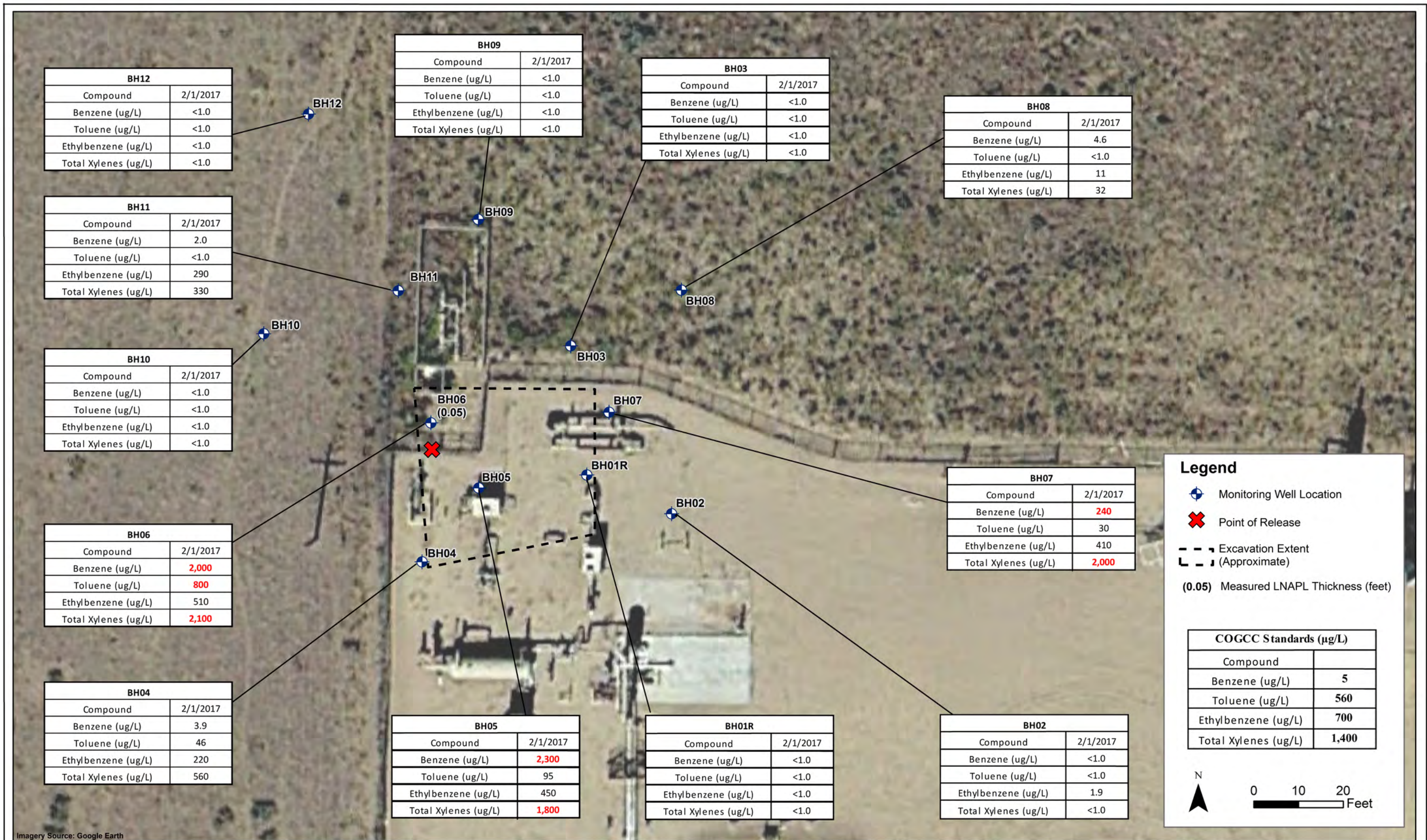
DATE:	February 2017
DESIGNED BY:	B. Humphrey
DRAWN BY:	D. Arnold



**DCP Midstream
Tampa Compressor Station**
SWSW Section 31, Township 3 North, Range 63 West
Weld County, Colorado

Groundwater Elevation
Contour Map
(February 1, 2017)

**Figure
3**



DATE: February 2017
DESIGNED BY: B. Humphrey
DRAWN BY: D. Arnold

TASMAN GEOSCIENCES
Tasman Geosciences Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

DCP Midstream
Tampa Compressor Station
SWSW Section 31, Township 3 North, Range 63 West
Weld County, Colorado

Groundwater Analytical Results
Map
(February 1, 2017)

Figure
4

Appendix A

Historic Analytical Results

APPENDIX A
HISTORIC ANALYTIC DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH01	2/19/2015	NS	NS	NS	NS	LNAPL
BH01R	11/12/2015	82	<1.0	7.5	3.8	
BH01R	2/23/2016	35	<1.0	3.7	1.5	
BH01R	5/27/2016	4.2	<1.0	2.0	<1.0	
BH01R	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH01R	11/9/2016	<1.0	<1.0	3.4	<1.0	
BH01R	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH02	2/19/2015	<1.0	1.7	<1.0	1.1	
BH02	11/12/2015	<1.0	1.6	<1.0	4.5	
BH02	2/23/2016	<1.0	<1.0	<1.0	<1.0	
BH02	5/27/2016	<1.0	<1.0	<1.0	<1.0	
BH02	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH02	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH02	2/1/2017	<1.0	<1.0	1.9	<1.0	
BH03	2/19/2015	NS	NS	NS	NS	LNAPL
BH03	11/12/2015	NS	NS	NS	NS	LNAPL
BH03	2/23/2016	NS	NS	NS	NS	LNAPL
BH03	5/27/2016	53	65	100	700	
BH03	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH03	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH03	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH04	11/12/2015	NS	NS	NS	NS	LNAPL
BH04	2/23/2016	NS	NS	NS	NS	LNAPL
BH04	5/27/2016	120	490	560	2,600	
BH04	8/17/2016	28	73	140	840	LNAPL
BH04	11/9/2016	120	590	1,800	5,500	LNAPL
BH04	2/1/2017	3.9	46	220	560	
BH05	11/12/2015	6,700	590	610	2,300	
BH05	2/23/2016	2,900	180	540	1,500	
BH05	5/27/2016	2,300	130	610	2,900	
BH05	8/17/2016	1,800	30	100	1,100	
BH05	11/9/2016	19,000	2,000	3,500	15,000	
BH05	2/1/2017	2,300	95	450	1,800	
BH06	11/12/2015	NS	NS	NS	NS	LNAPL
BH06	2/23/2016	NS	NS	NS	NS	LNAPL
BH06	5/27/2016	6,500	6,200	2,500	14,000	
BH06	8/17/2016	5,400	3,100	1,400	7,600	
BH06	11/9/2016	NS	NS	NS	NS	LNAPL
BH06	2/1/2017	2,000	800	510	2,100	LNAPL
BH07	11/12/2015	1,600	1,000	290	1,000	
BH07	2/23/2016	130	70	170	110	
BH07	5/27/2016	3,100	1,500	500	2,700	
BH07	8/17/2016	2,500	170	550	2,600	
BH07	11/9/2016	790	71	510	2,400	
BH07	2/1/2017	240	30	410	2,000	
BH08	11/12/2015	160	16	11	40	

**APPENDIX A
HISTORIC ANALYTIC DATA
DCP TAMPA COMPRESSOR STATION
WELD COUNTY, COLORADO**

Location Identification	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Comments
COGCC Standards (µg/L)		5	560	700	1,400	
BH08	2/23/2016	150	37	15	74	
BH08	5/27/2016	60	10	19	110	
BH08	8/17/2016	5.1	6.2	20	320	
BH08	11/9/2016	<1.0	<1.0	<1.0	9.1	
BH08	2/1/2017	4.6	<1.0	11	32	
BH09	11/12/2015	610	46	18	80	
BH09	2/23/2016	23	<1.0	<1.0	<1.0	
BH09	5/27/2016	8.0	<1.0	<1.0	<1.0	
BH09	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH09	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH09	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH10	11/12/2015	<1.0	<1.0	<1.0	<1.0	
BH10	2/23/2016	<1.0	<1.0	<1.0	<1.0	
BH10	5/27/2016	<1.0	<1.0	<1.0	<1.0	
BH10	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH10	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH10	2/1/2017	<1.0	<1.0	<1.0	<1.0	
BH11	11/12/2015	2,100	1,800	200	840	
BH11	2/23/2016	NS	NS	NS	NS	LNAPL
BH11	5/27/2016	2,100	180	600	1,900	
BH11	8/17/2016	1,100	3.5	34	770	
BH11	11/9/2016	27	<1.0	100	260	
BH11	2/1/2017	2.0	<1.0	290	330	
BH12	11/12/2015	<1.0	<1.0	<1.0	<1.0	
BH12	2/23/2016	<1.0	<1.0	<1.0	<1.0	
BH12	5/27/2016	<1.0	<1.0	<1.0	<1.0	
BH12	8/17/2016	<1.0	<1.0	<1.0	<1.0	
BH12	11/9/2016	<1.0	<1.0	<1.0	<1.0	
BH12	2/1/2017	<1.0	<1.0	<1.0	<1.0	

Notes:

1). The environmental cleanup standards for groundwater that are applicable to this site are the Colorado Oil and Gas Conservation Commission (COGCC) standards for contaminants in groundwater according to Table 910-1 of the COGCC 900 Series Rule for E&P Waste Management.

Bold red values indicate an exceedance of the COGCC groundwater standards for the Site.

NS = Not sampled.

µg/L = micrograms per liter.

LNAPL - Light non-aqueous phase liquid

Appendix B

Laboratory Analytical Report
Summit Scientific – 1702010

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

February 06, 2017

Steve Weathers
DCP Operating Company
370 17th Street #2500
Denver, CO 80202
RE: Tampa Compressor Station

Enclosed are the results of analyses for samples received by Summit Scientific on 02/01/17 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH01R	1702010-01	Water	02/01/17 13:15	02/01/17 16:55
BH02	1702010-02	Water	02/01/17 12:38	02/01/17 16:55
BH03	1702010-03	Water	02/01/17 13:30	02/01/17 16:55
BH04	1702010-04	Water	02/01/17 14:15	02/01/17 16:55
BH05	1702010-05	Water	02/01/17 14:08	02/01/17 16:55
BH06	1702010-06	Water	02/01/17 14:20	02/01/17 16:55
BH07	1702010-07	Water	02/01/17 14:05	02/01/17 16:55
BH08	1702010-08	Water	02/01/17 13:30	02/01/17 16:55
BH09	1702010-09	Water	02/01/17 13:20	02/01/17 16:55
BH10	1702010-10	Water	02/01/17 13:50	02/01/17 16:55
BH11	1702010-11	Water	02/01/17 13:55	02/01/17 16:55
BH12	1702010-12	Water	02/01/17 13:40	02/01/17 16:55

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DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

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1702010.1

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303-277-9310 • 303-374-9933 Fax

Page 1 of 2

Client: DCP / Tasman Geosciences

Address: 16399 Pecos St, Unit C

City/State/Zip: Denver, CO 80221

Phone: Fax:

Sampler Name: Mitch Weller, Alec Chapin

Project Manager: Steve Weathers

E-Mail: swweathers@dcpmidstream.com; blumphy@tasman-geo.com

Project Name: Tampa Compressor Station

Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:				Special Instructions
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	STEX	R260	
BH01R	2-1-17	1315	3	X										
BH02		1235												
BH03		1330												
BH04		1415												
BH05		1408												
BH06		1420												
BH07		1405												
BH08		1330												
BH09		1320												
BH10		1350												
Relinquished by: <i>Mitch Weller</i>				Date/Time: 2-1-17	Received by: <i>[Signature]</i>				Date/Time: 2-1-17 16:55	Turn Around Time (Check)				Notes: on ice
Relinquished by:				Date/Time:	Received by:				Date/Time:	Same Day <input type="checkbox"/> 72 Hours <input type="checkbox"/> 24 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 Hours <input type="checkbox"/>				
Relinquished by:				Date/Time:	Received in Lab by:				Date/Time:	Sample Integrity: Temperature Upon Receipt: 2.7°C Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

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370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

Sample Receipt Checklist

S2 Work Order: 1700010
Client: DCP/Tasman Client Project ID: Tampa Comp Station
Shipped Via: P/U Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Matrix (check all that apply): Air Soil/Solid ✓ Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>2.72</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?	✓			on ice
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present?			✓	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		✓		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	✓			HCL
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			✓	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Eric Harrell
Custodian Printed Name

[Signature]
Signature or Initials of Custodian

2-1-17 16:55
Date/Time



DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station
Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH01R
1702010-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1702020	02/02/17	02/02/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.6 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		102 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	45-146		"	"	"	"	

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370 17th Street #2500
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Project: Tampa Compressor Station
Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH02
1702010-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.9	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 12:38**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.2 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		103 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	45-146		"	"	"	"	

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Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH03
1702010-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1702020	02/02/17	02/02/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		101 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	45-146		"	"	"	"	

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Reported:
02/06/17 15:53

BH04
1702010-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	3.9	1.0	ug/l	1	1702020	02/02/17	02/02/17	EPA 8260B	
Toluene	46	10	"	10	"	"	"	"	
Ethylbenzene	220	10	"	"	"	"	"	"	
Xylenes (total)	560	10	"	"	"	"	"	"	

Date Sampled: **02/01/17 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	45-146		"	"	"	"	

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Reported:
02/06/17 15:53

BH05
1702010-05 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2300	10	ug/l	10	1702020	02/02/17	02/02/17	EPA 8260B	
Toluene	95	10	"	"	"	"	"	"	
Ethylbenzene	450	10	"	"	"	"	"	"	
Xylenes (total)	1800	10	"	"	"	"	"	"	

Date Sampled: **02/01/17 14:08**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.8 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.9 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	45-146		"	"	"	"	

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Project: Tampa Compressor Station
Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH06
1702010-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2000	100	ug/l	100	1702020	02/02/17	02/02/17	EPA 8260B	
Toluene	800	100	"	"	"	"	"	"	
Ethylbenzene	510	100	"	"	"	"	"	"	
Xylenes (total)	2100	100	"	"	"	"	"	"	

Date Sampled: **02/01/17 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		104 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	45-146		"	"	"	"	

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Reported:
02/06/17 15:53

BH07
1702010-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	240	10	ug/l	10	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	30	10	"	"	"	"	"	"	
Ethylbenzene	410	10	"	"	"	"	"	"	
Xylenes (total)	2000	10	"	"	"	"	"	"	

Date Sampled: **02/01/17 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		103 %	37-154		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		100 %	45-149		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		102 %	45-146		"	"	"	"	

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Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH08
1702010-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	4.6	1.0	ug/l	1	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	11	1.0	"	"	"	"	"	"	
Xylenes (total)	32	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		100 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	45-146		"	"	"	"	

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Denver CO, 80202

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Reported:
02/06/17 15:53

BH09
1702010-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		103 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	45-146		"	"	"	"	

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Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH10
1702010-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		101 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	45-146		"	"	"	"	

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Project: Tampa Compressor Station
Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH11
1702010-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	2.0	1.0	ug/l	1	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	290	10	"	10	"	"	"	"	
Xylenes (total)	330	10	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		100 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	45-146		"	"	"	"	

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Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

BH12
1702010-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **02/01/17 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1702020	02/03/17	02/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **02/01/17 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		102 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	45-146		"	"	"	"	

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Denver CO, 80202

Project: Tampa Compressor Station
Project Number: [none]
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Reported:
02/06/17 15:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1702020 - EPA 5030 Water MS

Blank (1702020-BLK1)

Prepared & Analyzed: 02/02/17

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.6	37-154			
Surrogate: Toluene-d8	13.5		"	13.3		101	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.4	45-146			

LCS (1702020-BS1)

Prepared & Analyzed: 02/02/17

Benzene	31.6	1.0	ug/l	33.3		94.7	51-132			
Toluene	34.5	1.0	"	33.3		103	51-138			
Ethylbenzene	39.0	1.0	"	33.1		118	58-146			
m,p-Xylene	77.8	2.0	"	66.5		117	57-144			
o-Xylene	39.3	1.0	"	32.7		120	53-146			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	37-154			
Surrogate: Toluene-d8	12.8		"	13.3		96.0	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			

Matrix Spike (1702020-MS1)

Source: 1702010-01

Prepared & Analyzed: 02/02/17

Benzene	31.3	1.0	ug/l	33.3	ND	93.9	34-141			
Toluene	34.2	1.0	"	33.3	ND	103	27-151			
Ethylbenzene	37.9	1.0	"	33.1	ND	115	29-160			
m,p-Xylene	77.2	2.0	"	66.5	ND	116	20-166			
o-Xylene	39.1	1.0	"	32.7	ND	120	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.8	37-154			
Surrogate: Toluene-d8	13.0		"	13.3		97.6	45-149			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	45-146			

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Project Number: [none]
Project Manager: Steve Weathers

Reported:
02/06/17 15:53

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1702020 - EPA 5030 Water MS

Matrix Spike Dup (1702020-MSD1)	Source: 1702010-01			Prepared & Analyzed: 02/02/17						
Benzene	31.6	1.0	ug/l	33.3	ND	94.9	34-141	0.985	32	
Toluene	33.9	1.0	"	33.3	ND	102	27-151	0.793	25	
Ethylbenzene	38.3	1.0	"	33.1	ND	116	29-160	0.972	50	
m,p-Xylene	77.5	2.0	"	66.5	ND	116	20-166	0.284	36	
o-Xylene	38.7	1.0	"	32.7	ND	119	33-159	0.951	26	
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.3		110	37-154			
Surrogate: Toluene-d8	12.9		"	13.3		96.5	45-149			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	45-146			

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



DCP Operating Company
370 17th Street #2500
Denver CO, 80202

Project: Tampa Compressor Station

Project Number: [none]
Project Manager: Steve Weathers

Reported:
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Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference