Stantec

2020 ANNUAL GROUNDWATER MONITORING REPORT

Blanco Plant – North Flare Pit

NMOCD Order No. GW-49
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Abbreviations

Bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
DTP	depth to product
DTW	depth to water
EPFS	El Paso Field Services
EPNG	El Paso Natural Gas Company, LLC
LNAPL	light non-aqueous phase liquid
mg/L	milligrams per liter
NMED	New Mexico Environment Department
NMOCD	New Mexico Oil Conservation Division
NMWQCC	New Mexico Water Quality Control Commission
QC	quality control

1.0 INTRODUCTION

This 2020 Annual Groundwater Monitoring Report has been prepared on behalf of El Paso CGP Company, LLC (EPCGP) to present the results of the 2020 groundwater monitoring activities at the Blanco Gas Plant – North Flare Pit (Blanco North, the site). The Report also documents quarterly free product recovery activities, initiated in April 2020.

The site is currently regulated by the New Mexico Oil Conservation Division (NMOCD) and is located at 81 Road 4900 in Bloomfield, San Juan County, New Mexico. The site location is shown in Figure 1 and the site plan is shown in Figure 2. The April 2020 groundwater sampling event was performed by Jacobs Engineering Group, Inc., on behalf of EPCGP. The remaining field activities for 2020 were completed by Stantec Consulting Services, Inc. (Stantec), on behalf of EPCGP.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The Blanco North site is located approximately 1.5 miles northeast of central Bloomfield, New Mexico, on land controlled by the United States Bureau of Land Management. The San Juan River is roughly 2 miles south of the site. The property adjacent to the site is primarily used for ranching and farming, with a gas production well operated by Hilcorp Energy located west of the former North Flare Pit (NFP) area. The main operations of the Blanco Gas Plant are located directly to the south of the site. The site is adjacent to a pipeline pigging station but is generally not heavily industrialized and contains large areas of unimproved land, other than limited environmental-related infrastructure.

2.2 SITE HISTORY

The site has an extensive history of environmental investigation and restoration. Remediation efforts over the past several decades include:

- The New Mexico Environmental Improvement Division, now the New Mexico Environment Department (NMED) conducted a site inspection at the Blanco Gas Plant in 1987 and recommended investigation to support the submittal of a groundwater discharge plan application. In 1988, MW-2 was installed and sampled. During January 1990, MW-19 was installed and sampled. MW-19 contained an oily sheen with benzene, toluene, ethylbenzene, and xylene (BTEX) concentrations exceeding the New Mexico Water Quality Control Commission (NMWQCC) standards (MWH, 2011).

- During February 1992, hydrocarbon-impacted soils were excavated and removed from the site. Following the excavation, a work plan was submitted to the NMOCD which addressed subsurface investigation of the NFP. The investigation of the NFP was conducted during September and October of 1992. During the investigation, five monitoring wells (MW-20, MW-23, MW-24, MW-26, and MW-27) were installed south of the NFP. In addition, several soil borings were advanced adjacent to the monitoring wells but were not completed as wells because significant quantities of groundwater were not encountered. Light non-aqueous phase liquid (LNAPL) was found in monitoring wells MW-19, MW-26, and MW-27 and was sampled, while groundwater was sampled from the remaining wells. Concentrations of BTEX in exceedance of NMWQCC standards were detected in monitoring wells MW-23 and MW-24. Based on the groundwater data and product analysis obtained during the 1992 investigation, it was suggested that the NFP and evaporation pond were the two plausible sources of contamination at the site (MWH, 2011).

- LNAPL removal from MW-19 and MW-26 was initiated by El Paso Natural Gas (EPNG) in 1993 and continued until June 1995. During this time, routine groundwater monitoring was conducted. LNAPL was not found in any monitoring wells at the site as of August 1995. In September 1995, EPNG submitted a work plan to NMOCD which proposed remediation of BTEX impacts by nitrate addition, quarterly groundwater monitoring, and abandonment of monitoring wells following remediation of hydrocarbons below NMWQCC standards. Approval of this work plan was not received, from NMOCD, and groundwater monitoring at the site was discontinued (MWH, 2011).

- Periodic groundwater monitoring and sampling resumed in 2000. Management of the site was transferred from EPNG to El Paso Field Services (EPFS) in August 2001. Sludge from the lined evaporation pond was excavated and removed in October 2001. During the

evaporation pond excavation, the liner was retracted, and soil samples were collected at depths from 1 to 4 feet below ground surface (bgs). The soil samples were submitted to an analytical laboratory for analysis of petroleum hydrocarbons. It was reported that the soil samples contained no detectable quantities of petroleum hydrocarbons (MWH, 2011).

- In May 2002, the NMOCD requested EPFS submit historic monitoring and remediation data collected from the site since 1994. EPFS submitted the requested data along with a work plan which proposed the installation and operation of a pilot air sparge system adjacent to MW-19 and MW-26 to remediate groundwater. NMOCD approved the work plan in February 2003 (MWH, 2011).

- One air sparge well (SW-1) was installed north of MW-26. During April 2003, an LNAPL skimmer pump was installed and LNAPL removal began. Operation of the air sparge system began in June 2003 (MWH, 2011).

- During May 2006, monitoring wells MW-31, MW-32, and MW-33 were installed to further characterize the site. Shortly after installation, LNAPL was detected in MW-32. In September 2006, a pneumatic skimmer was placed in MW-32 to facilitate LNAPL removal. However, following removal of minimal LNAPL, the skimmer was replaced with absorbent socks (MWH, 2011).

- In June 2009, during an air sparging maintenance event, the air sparge system was found to be inoperative. EPFS suspended use of the air sparge system and began evaluating the site for hydrocarbon rebound (MWH, 2011).

- In 2013, semi-annual groundwater sampling and annual reporting resumed, and the above ground storage tank formerly used for storage of recovered fluids was removed.

- In March 2014, a work plan to conduct site characterization activities was completed and subsequently submitted to the NMOCD. In August 2014, the air sparge system and associated infrastructure was decommissioned and removed from the site (Jacobs, 2020).

- In 2017, three soil borings (SB-1 through SB-3) were advanced, and nine monitoring wells (MW-40 through MW-48) were advanced and completed as part of a site characterization investigation. Soil samples were collected and submitted for laboratory analysis during advancement of the monitoring wells and soil borings. Six monitoring wells (MW-2, MW-19, MW-24, MW-26, MW-27, and MW-31), and air sparge well SW-1 were plugged and abandoned. The results of these activities are to be presented in an upcoming report (Jacobs 2020).

- In August 2019, additional site characterization investigation activities were completed at the site, including the advancement and completion of eight monitoring wells (MW-49 through MW-56) around the former NFP and adjacent to the former evaporation pond. Soil samples were collected and submitted for laboratory analysis during advancement of the monitoring wells. The results of these activities are to be presented in an upcoming report (Jacobs 2020).

2.3 GEOLOGY AND HYDROGEOLOGY

Bechtel Environmental (Bechtel, 1988) and K.W Brown and Associates (K.W. Brown, 1990) assessed the geology and hydrogeology beneath the Blanco Plant site during their 1988 and 1990 investigations of the extent of groundwater contamination. The Blanco Plant area is located on Quaternary alluvium consisting of sand, silt, clay and gravel. The alluvium varies in thickness from less than 3 feet to more than 75 feet (Bechtel, 1988). Beneath the alluvium is Tertiary Nacimiento Formation consisting of interbedded, coarse to medium-grained arkosic sandstone, siltstone and shale which were characterized as channel fill and floodplain deposits (Bechtel, 1988). The

channel-fill sandstone may locally dictate groundwater flow due to the higher hydraulic conductivities in this lithology. The site hydrogeology and groundwater were also assessed by EPNG in a study conducted in 1989 (EPNG, 1989). The average hydraulic conductivity was estimated to be 2.1 x 10^{-4} centimeters per second. Depth to groundwater ranged from 9 to 50 feet below ground surface (EPNG, 1989). In 1992, Burlington Environmental completed an investigation specific to the NFP area (Burlington, 1992). Eight borings were advanced during the investigation, five of which were completed as monitoring wells. In general, it was observed that each of these borings were advanced through approximately 19 feet of silty/clayey sand, underlain by silty/sandy clay with laminated siltstone and mudstone. In three of the borings (completed as MW-24, MW-26, and MW-27), a sand layer containing gravel and clay was encountered above the sandstone bedrock, which was interpreted as a possible relict channel feature. In the MW-19 boring, a similar thick sandy unit was encountered (K.W. Brown, 1990). At approximately 50 to 70 feet bgs sandstone was encountered, with the greatest depths to bedrock found beneath the possible relict channel feature. In some places the upper sections of the sandstone were observed to be friable. The soil borings advanced during the investigation were terminated in what was characterized as a gypsum-cemented sandstone and interpreted to be an apparent aquitard. Depending on the location, groundwater saturation was encountered either within or just above the overlying sandstone contact.

3.0 FIELD ACTIVITIES

Activities completed in 2020 included semi-annual groundwater monitoring and sampling, along with free product recovery, in April and November 2020. An additional site-wide well gauging and free product recovery was completed in August 2020. For the field activities completed by Stantec, electronic mail notifications were provided to the NMOCD prior to the start of field work. Copies of the notifications are provided in Appendix A.

The following sections summarize the 2020 site activities.

3.1 DEPTH TO WATER MEASUREMENTS

Site-wide groundwater gauging activities that included MW-23, MW-32, MW-33, and MW-40 through MW-45 were conducted on April 27, August 18, and November 17, 2020. The EPNG-owned monitoring wells associated with the South Flare Pit and D Plant Areas of the Blanco Plant were also gauged on November 17, 2020, to evaluate groundwater elevations across both the north and south portions of the Blanco Plant.

Well gauging was completed using an oil-water interface probe, and depth to water (DTW) and depth to product (DTP), as applicable, were measured at each of the accessed monitoring wells. The 2020 groundwater gauging data and resulting groundwater elevations are included with historical gauging results on Table 1.

3.2 FREE PRODUCT RECOVERY

Quarterly free product recovery activities were initiated at the site in April 2020. Measurable free product was encountered in monitoring wells MW-32 and MW-47 during these events and was removed via manual methods. Approximately 0.13, 0.25, and 0.04 gallons were removed from MW-32 in April, August, and December 2020, respectively. Less than 0.01 gallons was removed from monitoring well MW-47 during each of the free product recovery events in 2020.

In April and November 2020, the recovered liquids were contained with wastewater generated during groundwater sampling activities. The recovered liquids were transported to Basin Disposal, Inc. (Basin) for treatment and disposal. Waste disposal documentation is included as Appendix B.

3.3 GROUNDWATER SAMPLING

Following gauging on April 27 and November 17, 2020, groundwater samples were collected from the EPCGP monitoring wells that containing no measurable LNAPL. With the exception of monitoring wells MW-50, MW-52 and MW-56 in April 2020, HydraSleeve samplers were used to collect the groundwater samples. Disposable bailers were used to collect the remaining samples in April 2020. New HydraSleeves were installed in the site monitoring wells following each sampling event. Stantec installed HydraSleeve samplers in MW-50, MW-52, and MW-56 prior to sampling those wells on November 18, 2020.

Groundwater samples collected in April 2020 were shipped under chain-of-custody protocols to Eurofins TestAmerica Laboratory(Eurofins), in Houston, Texas. The groundwater samples collected in November 2020 were shipped under chain of custody protocols to the Eurofins lab located in Pensacola, Florida. Laboratory-supplied trip blanks accompanied the samples, and two blind field duplicate samples were collected during each groundwater sampling event. The groundwater samples were analyzed for BTEX using U.S. Environmental Protection Agency (EPA) Method 8260B and nitrate using Method E300.0.

Excess groundwater and other wastewater generated during each groundwater sampling event was containerized and transported to Basin for treatment and disposal. Waste disposal documentation is included as Appendix B.

Groundwater analytical data were subjected to a validation process to review for quality and analytical methods used. The data review focused on the potential impact of laboratory performance and matrix effects on the validity of the analytical results. During the review, sample results that did not meet quality control (QC) acceptance criteria were qualified with flags to indicate a potential problem with the data, as noted on the groundwater analytical data summary tables (Tables 2 and 3). The Stantec data validation report, and associated level IV data packages from Eurofins, are available upon request.

4.0 RESULTS AND DISCUSSION

4.1 GROUNDWATER ELEVATION AND GRADIENT

Groundwater elevations determined from the April, August, and November 2020 gauging events indicated apparent groundwater flow across the site to the southeast. A groundwater elevation contour maps depicting groundwater elevations across the site for each gauging event are included as Figures 3, 4, and 5.

4.2 FREE PRODUCT RECOVERY RESULTS

The measured thickness and recovery of free product encountered in monitoring wells MW-32 and MW-47 are summarized in Table 4. As noted on Table 4, approximately 0.42 gallons of product were recovered from MW-32. A trace amount of product was recovered from MW-47 in 2020.

4.3 GROUNDWATER ANALYTICAL RESULTS

Tables 2 and 3 summarize historical and the 2020 site investigation and annual groundwater analytical results. Figures 6 and 7 summarize the BTEX constituent and nitrate analyte concentrations in groundwater. The analytical laboratory reports are included as Appendix C.

- Free product was observed in MW-32 and MW-47 during the April and November groundwater sampling events; therefore, groundwater samples were not collected from these two locations.
- Groundwater samples collected from monitoring wells MW-23, MW-44, MW-45, and MW-48 during both the April and November 2020 sampling events exceeded the NMWQCC standard (0.010 milligrams per liter [mg/L]) for benzene. Groundwater samples collected from monitoring wells MW-51 and MW-52 during the November 2020 sampling event also exceeded the NMWQCC standard for benzene. Benzene concentrations were either below the standard or not detected in the remaining monitoring wells sampled in 2020.
- Concentrations of toluene were either below the NMWQCC standard (0.75 mg/L) or not detected in the monitoring wells sampled in 2020.
- Concentrations of ethylbenzene were either below the NMWQCC standard (0.75 mg/L) or not detected in the monitoring wells sampled in 2020.
- The groundwater sample collected from MW-23 during the April 2020 sampling event exceeded the NMWQCC standard (0.62 mg/L) for total xylenes in groundwater. However, the concentrations of total xylenes in the groundwater sample collected from MW-23 in November 2020 was below the NMWQCC standard. Total xylene concentrations were either below the standard or not detected in the samples collected from the other Site monitoring wells in 2020.
- The Groundwater samples collected from monitoring well MW-40 during the April and November 2020 sampling events exceeded the NMWQCC standard (10 mg/L) for nitrate. Groundwater samples collected from monitoring wells MW-33 and MW-54 during the November 2020 sampling event also exceeded the NMWQCC standard for nitrate. Nitrate concentrations were either below the standard or not detected in the remaining monitoring wells sampled in 2020.

Field duplicates were collected from monitoring wells MW-51 and MW-54 during the April 2020 sampling event, and from MW-44 and MW-48 during the November sampling event. With the exception of the nitrate results reported in samples collected from MW-44 in November 2020, no significant differences were noted between the primary and the duplicate samples. A relative

percent difference of approximately 110% was calculated for the nitrate data associated with the primary sample and its duplicate collected from MW-44 in November 2020.. No issue was noted upon review of the field information, although the laboratory reported both sample results as being out of control limits. Both the primary and duplicate sample results were over two orders of magnitude less than the NMWQCC standard.

Detectable concentrations of BTEX constituents were not reported in the trip blanks collected.

5.0 PLANNED FUTURE ACTIVITIES

Semi-annual groundwater monitoring is to continue in 2021. Groundwater samples will be collected from monitoring wells not containing free product. Field duplicates and a trip blank will also be collected during each groundwater sampling event. The groundwater samples will be analyzed for BTEX constituents using EPA Method 8260, and nitrate using Method 300.0.

Manual recovery of LNAPL in liquid-phase will continue on a quarterly basis in 2021.

Additional delineation and remedial feasibility testing in the vicinity of the NFP area is planned for 2021. A work plan to complete the proposed activities will be submitted under separate cover. The activities completed in 2021 and their results will be summarized in the 2021 Annual Report, to be submitted in early 2022.

6.0 REFERENCES

Bechtel Environmental, 1988. *Groundwater Investigation Report, El Paso Natural Gas Company's Blanco Plant, San Juan County, New Mexico*. January.

Burlington Environmental, 1992. *Monitoring Well Installation and Testing at the North Flare Pit Area of Blanco Plant*. Prepared for El Paso Natural Gas Company. December.

El Paso Natural Gas Company, 1989. *Groundwater Investigation Report, El Paso Natural Gas Company's Blanco Plant, San Juan County, New Mexico*. January.

Jacobs, 2020. *2019 Annual Groundwater Monitoring Report, North Flare Pit, Bloomfield, New Mexico*. Prepared for El Paso CGP Company LLC. March.

K.W. Brown and Associates, Inc., 1990. *Site Investigation of the Blanco Plant, San Juan County, New Mexico*. Prepared for El Paso Natural Gas Company. February.

MWH, 2012. *2011 Blanco North Flare Pit Annual Report*. Prepared for El Paso CGP Company. March.

TABLES

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-23	5634.33	9/25/1992	NA	NA	57.11	5577.22
		2/1/1993	NA	NA	NA	NA
		2/25/1993	NA	NA	NA	NA
		6/8/1993	NA	NA	NA	NA
		9/29/1993	NA	NA	NA	NA
		2/10/1994	NA	NA	NA	NA
		5/13/1994	NA	NA	NA	NA
		8/22/1994	NA	NA	NA	NA
		11/13/2000	NA	NA	57.02	5577.31
		3/26/2001	NA	NA	57.07	5577.26
		5/30/2002	NA	NA	57.08	5577.25
		6/2/2003	NA	NA	57.12	5577.21
		8/4/2003	NA	NA	57.06	5577.27
		9/3/2003	NA	NA	57.11	5577.22
		12/16/2003	NA	NA	57.31	5577.02
		5/17/2004	NA	NA	57.14	5577.19
		8/23/2004	NA	NA	57.04	5577.29
		11/22/2004	NA	NA	57.13	5577.2
		2/23/2005	NA	NA	57.13	5577.2
		5/23/2005	NA	NA	57.22	5577.11
		8/30/2005	NA	NA	57.18	5577.15
		11/17/2005	NA	NA	57.29	5577.04
		2/21/2006	NA	NA	57.25	5577.08
		6/8/2006	NA	NA	57.44	5576.89
		8/15/2006	NA	NA	57.40	5576.93
		11/3/2006	NA	NA	57.41	5576.92
		2/26/2007	NA	NA	57.44	5576.89
		5/29/2007	NA	NA	57.47	5576.86
		8/22/2007	NA	NA	57.49	5576.84
		11/28/2007	NA	NA	57.62	5576.71
		2/20/2008	NA	NA	57.57	5576.76
		5/22/2008	NA	NA	57.40	5576.93
		8/21/2008	NA	NA	57.70	5576.63
		11/6/2008	NA	NA	57.81	5576.52
		2/17/2009	NA	NA	57.69	5576.64
		5/11/2009	NA	NA	57.83	5576.50
		8/26/2009	NA	NA	57.93	5576.4
		2/18/2010	NA	NA	57.89	5576.44
		8/25/2010	NA	NA	58.11	5576.22
		2/23/2011	NA	NA	58.04	5576.29
		8/31/2011	NA	NA	58.12	5576.21
		12/17/2013	NP	NP	58.58	5575.75
		6/18/2014	NP	NP	58.53	5575.8
		12/16/2014	NP	NP	58.7	5575.63
		6/24/2015	NP	NP	58.91	5575.42
		12/16/2015	NP	NP	58.82	5575.51
		6/29/2016	NP	NP	58.96	5575.37
		12/13/2016	NP	NP	58.98	5575.35

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-23	5634.33	4/27/2017	NP	NP	58.94	5575.39
		11/14/2017	NP	NP	59.13	5575.20
		1/28/2018	NP	NP	59.31	5575.02
		4/2/2018	NP	NP	59.1	5575.23
		11/13/2018	NP	NP	59.4	5574.93
		4/16/2019	NP	NP	59.31	5575.02
		9/23/2019	NP	NP	59.39	5574.94
		10/15/2019	NP	NP	59.42	5574.91
		4/27/2020	NP	NP	60.40	5573.93
		8/18/2020	NP	NP	59.41	5574.92
		11/17/2020	NP	NP	59.53	5574.80
MW-32	5650	8/26/2009	NA	NA	59.09	5590.91
		2/18/2010	NA	NA	58.93	5591.07
		2/22/2011	NA	NA	58.98	5591.02
		12/17/2013	NP	NP	59.19	5590.81
		6/18/2014	NP	NP	58.83	5591.17
		12/16/2014	NP	NP	58.61	5591.39
		6/24/2015	58.60	0.22	58.82	5591.18
		12/16/2015	58.45	0.46	58.91	5591.09
		6/29/2016	58.60	0.50	59.10	5590.90
		12/13/2016	Sheen	Sheen	58.93	5591.07
		4/27/2017	Sheen	Sheen	58.35	5591.65
		11/14/2017	NP	NP	58.30	5591.70
		1/28/2018	NP	NP	58.48	5591.52
		4/2/2018	NP	NP	58.37	5591.63
		11/13/2018	Sheen	Sheen	58.15	5591.85
		4/16/2019	58.15	1.16	59.31	5590.69
		9/23/2019	58.20	0.10	58.10	5591.90
		10/15/2019	57.99	0.38	58.37	5591.63
		4/27/2020	58.13	0.84	58.97	5591.76
		8/18/2020	58.20	0.20	58.40	5591.28
		11/17/2020	58.29	0.11	58.40	5591.21
MW-33	5625.44	6/8/2006	NA	NA	77.58	5547.86
		8/15/2006	NA	NA	71.71	5553.73
		11/3/2006	NA	NA	71.07	5554.37
		2/26/2007	NA	NA	70.33	5555.11
		5/29/2007	NA	NA	70.71	5554.73
		8/22/2007	NA	NA	71.29	5554.15
		11/28/2007	NA	NA	51.66	5573.78
		2/20/2008	NA	NA	52.51	5572.93
		5/22/2008	NA	NA	67.47	5557.97
		8/21/2008	NA	NA	69.81	5555.63
		11/6/2008	NA	NA	71.07	5554.37
		2/17/2009	NA	NA	70.33	5555.11
		5/11/2009	NA	NA	69.70	5555.74
		8/26/2009	NA	NA	69.60	5555.84
		2/18/2010	NA	NA	68.90	5556.54
		8/25/2010	NA	NA	68.90	5556.54
		2/22/2011	NA	NA	68.54	5556.9
		8/31/2011	NA	NA	69.18	5556.26
		12/17/2013	NP	NP	68.40	5557.04
		6/18/2014	NP	NP	68.70	5556.74
		12/16/2014	NP	NP	69.19	5556.25

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Groundwater Elevation Data
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Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-33	5625.44	6/24/2015	NP	NP	69.15	5556.29
		12/16/2015	NP	NP	70.70	5554.74
		6/29/2016	NP	NP	58.16	5567.28
		12/13/2016	NP	NP	63.50	5561.94
		4/27/2017	NP	NP	61.85	5563.59
		11/14/2017	NP	NP	49.98	5575.46
		1/28/2018	NP	NP	49.39	5576.05
		4/2/2018	NP	NP	49.20	5576.24
		11/13/2018	NP	NP	48.93	5576.51
		4/16/2019	NP	NP	49.34	5576.10
		9/23/2019	NP	NP	49.30	5576.14
		10/15/2019	NP	NP	49.19	5576.25
		4/27/2020	NP	NP	49.08	5576.36
		8/18/2020	NP	NP	49.44	5576.00
		11/17/2020	NP	NP	49.62	5575.82
MW-40	5621.43	11/14/2017	NP	NP	64.25	5557.18
		1/28/2018	NP	NP	64.23	5557.20
		4/2/2018	NP	NP	63.69	5557.74
		11/13/2018	NP	NP	63.72	5557.71
		4/16/2019	NP	NP	63.34	5558.09
		9/23/2019	NP	NP	63.53	5557.90
		10/15/2019	NP	NP	63.48	5557.95
		4/27/2020	NP	NP	63.34	5558.09
		8/18/2020	NP	NP	63.51	5557.92
		11/17/2020	NP	NP	63.59	5557.84
MW-41	5629.52	11/14/2017	NP	NP	89.48	5540.04
		1/28/2018	NP	NP	86.85	5542.67
		4/2/2018	NP	NP	83.29	5546.23
		11/13/2018	NP	NP	77.70	5551.82
		4/16/2019	NP	NP	75.44	5554.08
		9/23/2019	NP	NP	73.02	5556.50
		10/15/2019	NP	NP	73.09	5556.43
		4/27/2020	NP	NP	71.20	5558.32
		8/18/2020	NP	NP	71.06	5558.46
		11/17/2020	NP	NP	71.01	5558.51
MW-42	5623.91	11/14/2017	NP	NP	69.10	5554.81
		1/28/2018	NP	NP	69.07	5554.84
		4/2/2018	NP	NP	68.71	5555.20
		11/13/2018	NP	NP	69.05	5554.86
		4/16/2019	NP	NP	69.96	5553.95
		9/23/2019	NP	NP	69.35	5554.56
		10/15/2019	NP	NP	69.30	5554.61
		4/27/2020	NP	NP	69.42	5554.49
		8/18/2020	NP	NP	69.81	5554.10
		11/17/2020	NP	NP	69.91	5554.00

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Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-43	5626.44	11/14/2017	NP	NP	69.19	5557.25
		1/28/2018	NP	NP	69.40	5557.04
		4/2/2018	NP	NP	68.55	5557.89
		11/13/2018	NP	NP	68.78	5557.66
		4/16/2019	NP	NP	68.63	5557.81
		9/23/2019	NP	NP	69.11	5557.33
		10/15/2019	NP	NP	69.11	5557.33
		4/27/2020	NP	NP	69.26	5557.18
		8/18/2020	NP	NP	69.74	5556.70
		11/17/2020	NP	NP	69.95	5556.49
MW-44	5626.89	11/14/2017	NP	NP	68.31	5558.58
		1/28/2018	NP	NP	68.45	5558.44
		4/2/2018	NP	NP	68.12	5558.77
		11/13/2018	NP	NP	68.01	5558.88
		4/16/2019	NP	NP	67.65	5559.24
		9/23/2019	NP	NP	67.79	5559.10
		10/15/2019	NP	NP	67.81	5559.08
		4/27/2020	NP	NP	67.79	5559.10
		8/18/2020	NP	NP	68.48	5558.41
		11/17/2020	NP	NP	68.12	5558.77
MW-45	5633.95	11/14/2017	NP	NP	73.13	5560.82
		1/28/2018	NP	NP	72.84	5561.11
		4/2/2018	NP	NP	72.35	5561.60
		11/13/2018	NP	NP	72.18	5561.77
		4/16/2019	NP	NP	72.16	5561.79
		9/23/2019	NP	NP	72.67	5561.28
		10/15/2019	NP	NP	72.69	5561.26
		4/27/2020	NP	NP	73.05	5560.90
		8/18/2020	NP	NP	73.61	5560.34
		11/17/2020	NP	NP	74.00	5559.95
MW-46	5650.99	11/14/2017	NP	NP	47.32	5603.67
		1/28/2018	NP	NP	46.56	5604.43
		4/2/2018	NP	NP	46.45	5604.54
		11/13/2018	NP	NP	47.38	5603.61
		4/16/2019	NP	NP	47.15	5603.84
		9/23/2019	NP	NP	48.49	5602.50
		10/15/2019	NP	NP	47.90	5603.09
		4/27/2020	NP	NP	46.74	5604.25
		8/18/2020	NP	NP	48.45	5602.54
		11/17/2020	NP	NP	48.10	5602.89
MW-47	5637.74	11/14/2017	NP	NP	71.82	5565.92
		1/28/2018	NP	NP	62.02	5575.72
		4/2/2018	NP	NP	55.34	5582.40
		11/13/2018	NP	NP	48.22	5589.52
		4/16/2019	NP	NP	47.06	5590.68
		9/23/2019	Sheen	Sheen	46.77	5590.97
		10/15/2019	46.90	0.01	46.91	5590.83
		4/27/2020	46.71	<0.01	46.71	5591.03
		8/18/2020	46.46	<0.01	46.46	5591.28
		11/17/2020	47.50	0.03	47.53	5590.26

Table 1
Groundwater Elevation Data
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	TOC Elevation (ft amsl)	Measurement Date	Depth to Product (ft btoc)	LNAPL Thickness (feet)	Depth to Water (ft btoc)	GW Elevation (ft amsl)
MW-48	5651.4	11/14/2017	NP	NP	57.82	5593.58
		1/28/2018	NP	NP	55.15	5596.25
		4/2/2018	NP	NP	54.25	5597.15
		11/13/2018	NP	NP	54.15	5597.25
		4/16/2019	NP	NP	54.13	5597.27
		9/23/2019	NP	NP	53.84	5597.56
		10/15/2019	NP	NP	53.88	5597.52
		4/27/2020	NP	NP	53.68	5597.72
		8/18/2020	NP	NP	53.62	5597.78
		11/17/2020	NP	NP	53.58	5597.82
MW-49	5631.77	9/23/2019	NP	NP	72.03	5559.74
		10/15/2019	NP	NP	72.27	5559.50
		4/27/2020	NP	NP	72.64	5559.13
		8/18/2020	NP	NP	73.04	5558.73
		11/17/2020	NP	NP	73.13	5558.64
MW-50	5643.04	9/23/2019	NP	NP	75.32	5567.72
		10/15/2019	NP	NP	75.45	5567.59
		4/27/2020	NP	NP	75.40	5567.64
		8/18/2020	NP	NP	75.62	5567.42
		11/17/2020	NP	NP	75.64	5567.40
MW-51	5639.50	9/23/2019	NP	NP	61.90	5577.60
		10/15/2019	NP	NP	58.68	5580.82
		4/27/2020	NP	NP	51.82	5587.68
		8/18/2020	NP	NP	51.30	5588.20
		11/17/2020	NP	NP	51.12	5588.38
MW-52	5643.83	9/23/2019	NP	NP	52.41	5591.42
		10/15/2019	NP	NP	51.98	5591.85
		4/27/2020	NP	NP	49.90	5593.93
		8/18/2020	NP	NP	49.90	5593.93
		11/17/2020	NP	NP	49.93	5593.90
MW-53	5656.17	9/23/2019	NP	NP	59.90	5596.27
		10/15/2019	NP	NP	47.92	5608.25
		4/27/2020	NP	NP	43.35	5612.82
		8/18/2020	NP	NP	43.27	5612.90
		11/17/2020	NP	NP	43.29	5612.88
MW-54	5651.30	9/23/2019	NP	NP	59.55	5591.75
		10/15/2019	NP	NP	59.56	5591.74
		4/27/2020	NP	NP	59.38	5591.92
		8/18/2020	NP	NP	59.30	5592.00
		11/17/2020	NP	NP	59.41	5591.89
MW-55	5633.54	9/23/2019	NP	NP	49.96	5583.58
		10/15/2019	NP	NP	49.29	5584.25
		4/27/2020	NP	NP	48.85	5584.69
		8/18/2020	NP	NP	48.91	5584.63
		11/17/2020	NP	NP	48.93	5584.61
MW-56	5627.88	9/23/2019	NP	NP	58.11	5569.77
		10/15/2019	NP	NP	58.45	5569.43
		4/27/2020	NP	NP	59.45	5568.43
		8/18/2020	NP	NP	59.80	5568.08
		11/17/2020	NP	NP	59.80	5568.08

Notes:
Monitoring wells abandoned prior to 2017 have been removed from the table.
ft amsl = feet above mean sea level
ft btoc = feet below top of casing
NA = Historical data not available
NM = not measured
NP = no product measured
TOC = top of casing

Table 2
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		0.01	0.75	0.75	0.62
MW-23	9/25/1992	2.77	0.221	7.69	6.09
	2/1/1993	2.9	3.5	0.19	4.1
	2/25/1993	2.9	0.19	3.5	4.1
	6/8/1993	1.68	0.0301	1.85	2.906
	9/29/1993	2.133	0.216	1.807	3.823
	2/10/1994	2.09	0.151	1.15	2.66
	5/13/1994	3.53	0.255	0.852	2.15
	8/22/1994	3.27	0.212	0.353	1.176
	11/13/2000	3.7	<0.025	0.84	1.4
	3/26/2001	7.2	<0.025	0.52	1.3
	5/30/2002	9.3	<0.05	0.36	1.5
	6/2/2003	8.92	<0.010	0.337	1.45
	8/4/2003	2.25	<0.010	0.1	0.337
	9/3/2003	3.86	0.0078	0.208	0.768
	12/16/2003	5.08	<0.05	<0.05	0.219
	5/17/2004	8.02	<0.013	0.208	1.49
	8/23/2004	4.48	<0.025	0.16	0.966
	11/22/2004	3.36	<0.001	<0.001	<0.002
	2/23/2005	7.45	<0.001	0.321	1.38
	5/23/2005	9.9	0.0365	0.27	1.65
	8/30/2005	3.76	<0.005	0.0532	0.199
	11/17/2005	5.28	0.0026	0.203	0.863
	2/21/2006	4.9	0.0049	0.0567	0.71
	6/8/2006	3.47	<0.001	<0.001	0.373
	8/15/2006	6.49	0.0266	0.165	1.27
	11/3/2006	3.92	0.0263	0.103	0.735
	2/26/2007	8.91	0.0307	0.276	1.6
	5/29/2007	6.41	<0.011	0.276	1.24
	8/22/2007	5.11	0.0145	0.172	0.855
	11/28/2007	5.82	<0.05	0.147	1.08
	2/20/2008	8.29 B	0.0093	0.271	1.87 B
	5/22/2008	4.86	<0.1	0.14	0.891
	8/21/2008	5.92	<0.1	0.146	1.25
	11/6/2008	6.59	0.0042	0.186	1.4
	2/17/2009	6.01	<0.05	0.219	1.52
	5/11/2009	6.74	0.0054	0.162	1.53
	8/26/2009	6.71	0.0358 J	0.278	1.72
	2/18/2010	6.55	<0.1	0.227	1.5
	8/25/2010	5.5	<0.025	0.152	1.22
	2/23/2011	5.84	0.0088	0.16	1.23
	8/31/2011	6.27	0.0038	0.174	1.38
	12/17/2013	6.34	0.00965 J	0.101	0.964
	6/19/2014	8.58	<0.0075	0.149	1.48
	12/17/2014	9.7	<0.0075	0.141	1.41
	6/24/2015	7.64	<0.00396	0.224	0.983
	12/16/2015	8.09	<0.00396	0.169	1.36
	6/29/2016	9.13	<0.00396	0.181	1.58
	12/13/2016	9.13	<0.0099	0.206	1.66
	4/27/2017	7.89	<0.0099	0.163	1.21
	11/14/2017	8.61	0.0037 J	0.166	1.13
	4/2/2018	8.13	<0.0099	0.206	1.69
	11/14/2018	9.87	<0.0099	0.174	1.16
	4/17/2019	10.5	<0.00495	0.211	1.26
	9/24/2019	10.7	0.0139	0.362	1.82
	4/28/2020	8.75	<0.00396	0.159	0.945
	11/18/2020	7.8 J-	<0.021	0.087 J-	0.51 J-

Table 2
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-32	8/26/2009	**9.05**	**16.3**	**0.48**	**6.39**
	2/18/2010	**11.3**	**16.2**	**0.397**	**4.96**
	2/22/2011	**9.45**	**12.1**	**0.386**	**4.63**
	12/17/2013	**5.88**	**0.54**	**0.303**	**4.3**
	6/19/2014	**6.65 JH**	**2.24**	**0.324**	**5.41**
	12/17/2014	**1.57**	**0.736**	**0.098**	**1.57**
	6/24/2015	**3.91**	**0.0807**	**0.504**	**4.08**
	12/16/2015	**4.2**	**1.95**	**0.499**	**7.56**
	6/29/2016	**7.01**	**15**	**0.624**	**24.8**
	12/13/2016	**5.84**	**2.14**	**0.57**	**6.74**
	4/27/2017	**10.2**	**8.65**	**0.497**	**6.53**
	11/14/2017	**6.53**	**11**	**0.447**	**5.91**
	4/2/2018	**4.92**	**4.38**	**0.516**	**7.73**
	11/14/2018	**4.42**	**0.389 J**	**0.384**	**4.98**
	4/17/2019	Sample not collected. PSH in well			
	10/15/2019	Sample not collected. PSH in well			
	4/28/2020	Sample not collected. PSH in well			
	11/18/2020	Sample not collected. PSH in well			
MW-33	6/8/2006	**0.0011**	**0.0042**	<0.001	**0.0045**
	8/15/2006	**0.0301**	**0.0377**	<0.05	**0.0246**
	11/3/2006	<0.001	**0.0013**	<0.001	<0.002
	2/26/2007	<0.001	<0.001	<0.001	<0.002
	5/29/2007	<0.001	<0.001	<0.001	<0.002
	8/22/2007	<0.001	<0.001	<0.001	<0.002
	11/28/2007	<0.002	<0.002	<0.002	<0.006
	2/20/2008	**0.00099 UB**	**0.001 UB**	<0.001	**0.001 UB**
	5/22/2008	<0.001	<0.001	<0.001	<0.002
	8/21/2008	<0.001	<0.001	<0.001	<0.003
	11/6/2008	**0.0021**	<0.002	<0.002	**0.002 J**
	2/17/2009	**0.0015**	**0.00030 J**	<0.001	**0.0022**
	5/11/2009	<0.002	<0.002	<0.002	<0.006
	8/26/2009	<0.001	<0.001	<0.001	<0.002
	2/18/2010	**0.00098 J**	<0.001	<0.001	**0.00099 J**
	8/25/2010	**0.0004 J**	<0.001	<0.001	<0.002
	2/22/2011	**0.00055 J**	<0.001	<0.001	<0.001
	8/31/2011	**0.00045 J**	<0.001	<0.001	<0.001
	12/17/2013	**0.00501**	**0.000221 J**	**0.000110 J**	**0.000444 J**
	6/19/2014	<0.00008	<0.00015	<0.00011	<0.00026
	12/17/2014	<0.00008	<0.00015	<0.00011	<0.00026
	6/24/2015	<0.000176	<0.000198	<0.000212	<0.000366
	12/16/2015	**0.000185**	**0.000634**	<0.000212	**0.000422**
	6/29/2016	<0.000176	**0.000544 J**	<0.000212	**0.00131 J**
	12/13/2016	<0.000176	<0.000198	<0.000212	<0.000366
	4/27/2017	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/17/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	**0.00035 J**	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-40	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/17/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016

Table 2
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-41	11/14/2017	**0.000239 J**	**0.000536 J**	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/16/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-42	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	<0.000366
	4/16/2019	<0.000176	<0.000198	<0.000212	**0.000403 J**
	9/23/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-43	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	**0.000226 J**	<0.000366
	11/14/2018	<0.000176	<0.000198	<0.000212	**0.000967 J**
	4/17/2019	<0.000176	<0.000198	<0.000212	<0.000366
	9/24/2019	<0.00018	<0.0002	<0.00021	**0.00059 J**
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-44	11/14/2017	**0.227**	**0.000245 J**	**0.0177**	**0.000451 J**
	4/2/2018	**0.675**	<0.00099	**0.00198 J**	<0.00183
	11/14/2018	**0.646**	<0.00099	**0.00421 J**	<0.00183
	4/16/2019	**1.43**	<0.00198	**0.0161**	<0.00366
	9/24/2019	**1.32**	<0.00396	**0.0122 J**	<0.00732
	4/28/2020	**0.796**	<0.00396	**0.013 J**	<0.00732
	11/18/2020	**0.34 J-**	<0.00082	**0.0058 J-**	<0.0032
Duplicate	11/18/2020 (Dup-01)	**0.25 J-**	<0.00041 UJ	**0.0062 J-**	<0.0016 UJ
MW-45	11/14/2017	**1.25**	**0.0053**	**0.201**	**1.66**
	4/2/2018	**1.65**	**0.0116**	**0.254**	**0.0524**
	11/14/2018	**6.47**	**0.107**	**0.103**	**0.315**
	4/17/2019	**2.5 J**	<0.00396	<0.00424	<0.00732
	9/24/2019	**2.86**	**0.126**	**0.0678**	**0.353**
	4/28/2020	**0.15**	**0.00143**	**0.000996 J**	**0.00465**
	11/18/2020	**0.32**	**0.0056**	**0.0021**	**0.012 J**
MW-46	11/14/2017	<0.000176	<0.000198	<0.000212	<0.000366
	4/2/2018	<0.000176	<0.000198	<0.000212	<0.000366
	11/14/2018	**0.000258 J**	<0.000198	<0.000212	<0.000366
	4/16/2019	**0.000234 J**	<0.000198	<0.000212	<0.000366
	9/23/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-47	11/14/2017	**0.831**	**0.0935**	**0.0529**	**0.327**
	4/2/2018	**1.33**	**0.0185 J**	**0.130**	**0.256**
	11/14/2018	**2.28**	**0.239**	**0.314**	**2.79**
	4/16/2019	**2.55**	**0.239**	**0.379**	**4.55**
	10/15/2019	Sample not collected. PSH in well			
	4/28/2020	Sample not collected. PSH in well			
	11/18/2020	Sample not collected. PSH in well			
MW-48	11/14/2017	**0.969**	**0.994**	**0.0241**	**0.294**
	4/2/2018	**1.47**	**0.0216**	**0.0440**	**0.107**
	11/14/2018	**1.21**	**0.00487 J**	**0.0346**	**0.00919 J**
	4/16/2019	**0.706**	**0.00164**	**0.0491**	**0.00238**
	9/24/2019	**1.4**	**0.00245 J**	**0.0351**	**0.00813 J**
	4/28/2020	**1.8**	**0.000852 J**	**0.0342**	**0.000465 J**
	11/18/2020	**1.8**	<0.0041	**0.019**	<0.016
Duplicate	11/18/2020 (Dup-02)	**1.8**	<0.0041	**0.020**	<0.016
MW-49	9/24/2019	<0.00018	**0.0002 J**	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-50	9/23/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-51	9/24/2019	**0.201**	**0.0621**	**0.00655**	**0.161**
	4/28/2020	<0.000176	<0.000198	**0.000331 J**	<0.000366
Duplicate	4/28/2020 (MD-51)	<0.000176	<0.000198	**0.000394 J**	<0.000366
MW-51	11/18/2020	**0.58**	**0.0048 J**	**0.029**	**0.032 J**

Table 2
Summary of BTEX Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
NMWQCC Standard (mg/L):		**0.01**	**0.75**	**0.75**	**0.62**
MW-52	9/24/2019	<0.00018	<0.0002	**0.00043 J**	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	**0.23 J-**	<0.00041	**0.0072 J-**	<0.0016
MW-53	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/27/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-54	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
Duplicate	4/28/2020 (MD-54)	<0.000176	<0.000198	<0.000212	<0.000366
MW-54	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016
MW-55	9/24/2019	<0.00018	<0.0002	<0.00021	**0.00051 J**
	4/27/2020	**0.00697**	**0.00253**	<0.000212	**0.000644 J**
	11/18/2020	**0.0048**	**0.00097 J**	<0.00050	<0.0016
MW-56	9/24/2019	<0.00018	<0.0002	<0.00021	<0.00037
	4/28/2020	<0.000176	<0.000198	<0.000212	<0.000366
	11/18/2020	<0.00038	<0.00041	<0.00050	<0.0016

Notes:
Analytical data from monitoring wells abandoned prior to 2017 has been removed from the table
Bolded text indicates a detected concentration
Highlighted cells and bold text indicates the concentration exceeded NMWQCC standard
B = Analyte detected in an associated QA/QC blank; sample result unaffected
J = Analyte detected at concentration above instrument detection limit but below method detection limit
J- = The analyte was positively identified; the quantitation is an estimation with a potential low bias
JH = Estimated with a high bias, actual concentration may be lower than the concentration reported
PSH = phase-seperated hydrocarbons
UB = Analyte detected in an associated QA/QC blank; sample result considered non-detect
< = The analyte was not detected above the listed method detection limit

Table 3
Summary of Nitrate Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Nitrate (mg/L)
NMWQCC Standard (mg/L):		10
MW-23	4/2/2018	<0.628
	9/24/2019	1.26 J
	4/28/2020	<0.0251
	11/18/2020	**0.10**
MW-32	4/2/2018	<0.628
	9/24/2019	NC
	4/28/2020	NC
	11/18/2020	NC
MW-33	12/17/2014	**19**
	11/14/2017	**80.9**
	4/2/2018	**154**
	11/14/2018	**87.8**
	4/17/2019	**72**
	9/24/2019	**80.4**
	4/28/2020	<0.0251
	11/18/2020	**54 J-**
MW-40	11/14/2017	<0.017
	4/2/2018	<0.628
	11/14/2018	**12.5**
	4/17/2019	**1.17**
	9/24/2019	**0.58**
	4/27/2020	**15.4**
	11/18/2020	**40 J-**
MW-41	11/14/2017	<0.017
	4/2/2018	<0.628
	11/14/2018	<0.0251
	4/16/2019	<0.0251
	9/24/2019	<0.0251
	4/27/2020	<0.502
	11/18/2020	**4.9**
MW-42	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/27/2020	<0.502
	11/18/2020	<0.033
MW-43	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
MW-44	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251 R
	11/18/2020	**0.089 J**
Dup-01 (Duplicate)	11/18/2020	**0.095 J**
MW-45	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
MW-46	4/2/2018	<0.628
	9/23/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
MW-47	4/2/2018	<0.628
	9/24/2019	NC
	4/28/2020	NC
	11/18/2020	NC

Table 3
Summary of Nitrate Groundwater Analytical Results
Blanco Gas Plant - North Flare Pit, Bloomfield, New Mexico

Monitoring Well	Sample Date	Nitrate (mg/L)
NMWQCC Standard (mg/L):		10
MW-48	4/2/2018	<0.628
	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
Dup-02 (Duplicate)	11/18/2020	<0.033 UJ
MW-49	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	<0.033
MW-50	9/23/2019	**16.7 J**
	4/28/2020	**4.08**
	11/18/2020	**4.2**
MW-51	9/24/2019	<0.0251
	4/28/2020	<0.0251
	4/28/2020 (MD-51)	<0.0251
	11/18/2020	<0.033
MW-52	9/24/2019	**1.04**
	4/28/2020	<0.0251
	11/18/2020	<0.033
MW-53	9/24/2019	<0.0251 R
	4/27/2020	<0.502 J
	11/18/2020	<0.033
MW-54	9/24/2019	<0.0251
	4/28/2020	<0.0251
	4/28/2020 (MD-54)	<0.0251
	11/18/2020	**13 J-**
MW-55	9/24/2019	<0.0251
	4/27/2020	<0.502
	11/18/2020	<0.033
MW-56	9/24/2019	<0.0251
	4/28/2020	<0.0251
	11/18/2020	**0.46**

Notes:
Bolded text indicates detected concentration
Highlighted and bold cells indicate concentration exceeded NMWQCC standard
< = analyte not detected above listed method detection limit
J = reported result estimated
J- = The analyte was positively identified; the quantitation is an estimation with a potential low bias
NC = sample not collected from location

R = analytical result rejectected due to poor recovery on the matrix spike/matrix spike duplicate
UJ = The method detection limit is estimated

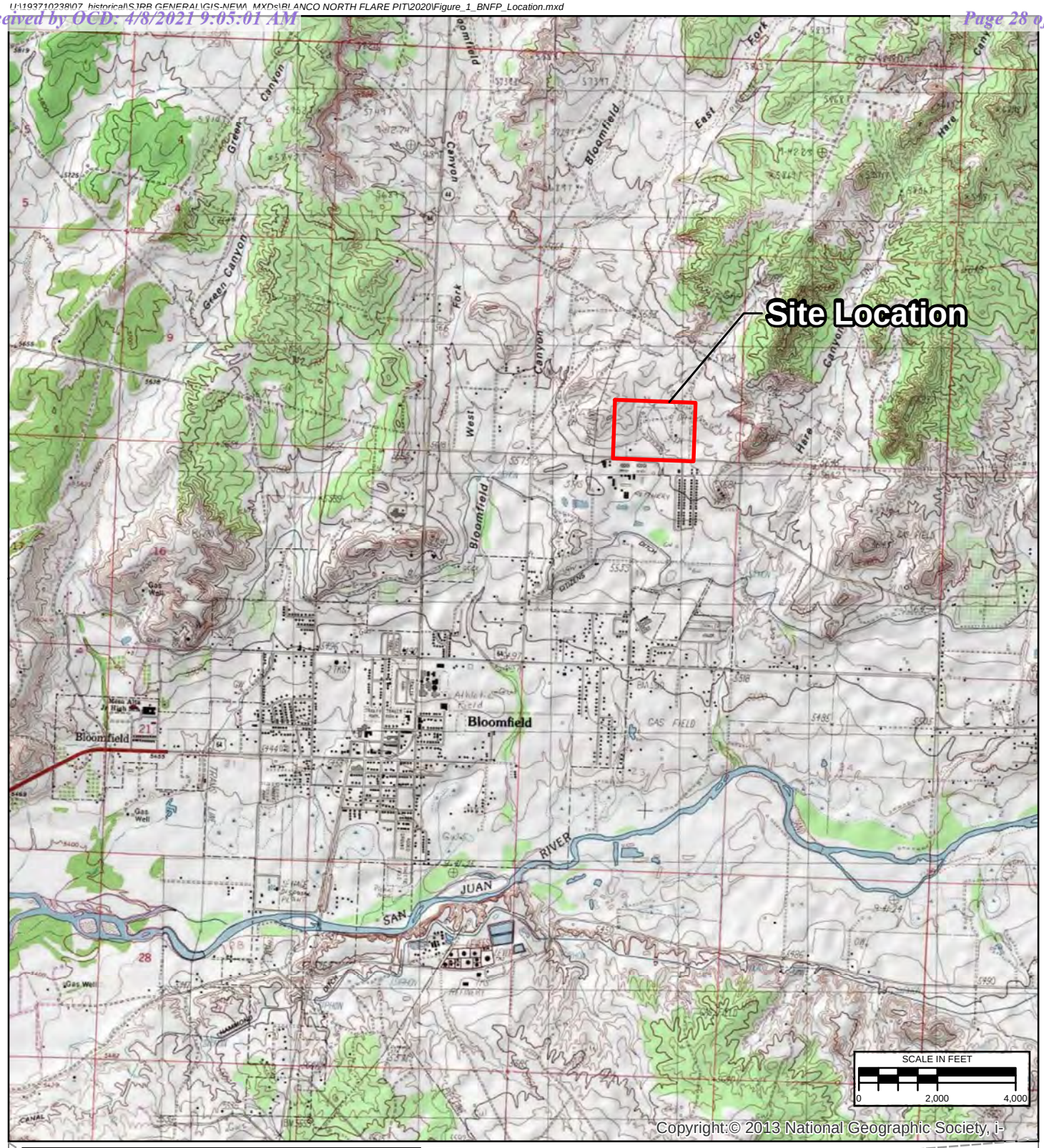
Table 4
Free Product Recovery Summary
Blanco Plant - North Flare Pit, Bloomfield, New Mexico

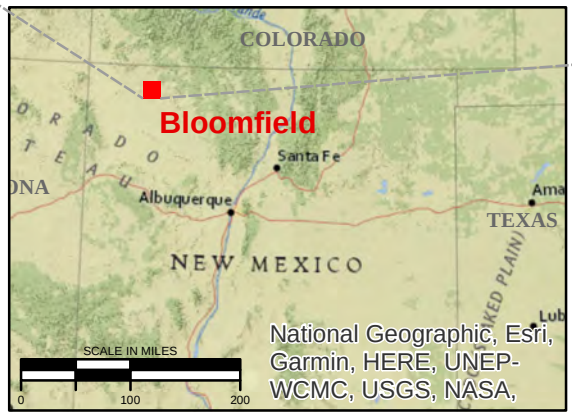
Well ID - MW-32	Depth to Product (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	Product Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
6/24/2015	58.60	58.82	0.22	N/A	N/A	N/A
12/16/2015	58.45	58.91	0.46	N/A	N/A	N/A
6/29/2016	58.60	59.10	0.50	N/A	N/A	N/A
12/13/2016	sheen	58.93	sheen	N/A	N/A	N/A
4/27/2017	sheen	58.35	sheen	N/A	N/A	N/A
11/13/2018	sheen	58.15	sheen	N/A	N/A	N/A
4/16/2019	58.15	59.31	1.16	0.03	0.1	manual
9/23/2019	58.10	58.20	0.10	<0.01	0.1	manual
10/15/2019	57.99	58.37	0.38	0.03	0.1	manual
4/27/2020	58.13	58.97	0.84	0.13	NR	manual
8/18/2020	58.20	58.40	0.20	0.25	0.41	manual
11/17/2020	58.29	58.4	0.11	0.04	0.48	manual
			Total:	0.48	1.19	

Well ID - MW-47	Depth to Product (Feet)	Depth to Water (Feet)	Measured Thickness (Feet)	Product Recovered (gal)	Water Recovered (gal)	Recovery Type
Date						
9/23/2019	sheen	46.77	sheen	<0.01	0.1	manual
10/15/2019	46.9	46.91	0.01	<0.01	0.1	manual
4/27/2020	46.71	46.71	<0.01	<0.01	0.4	manual
8/18/2020	46.46	46.46	<0.01	<0.01	0.74	manual
11/17/2020	47.50	47.53	0.03	<0.01	0.1	manual
			Total:	<0.01	1.44	

Notes:
N/A = Not Attempted.
NR = Not Recorded.
* = Includes calculated recovered hydrocarbon vapors.
gal = gallons
Product Data for previous years documented in previously-submitted reports.

FIGURES





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REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	2/9/2021	SLG	SLG	SRV

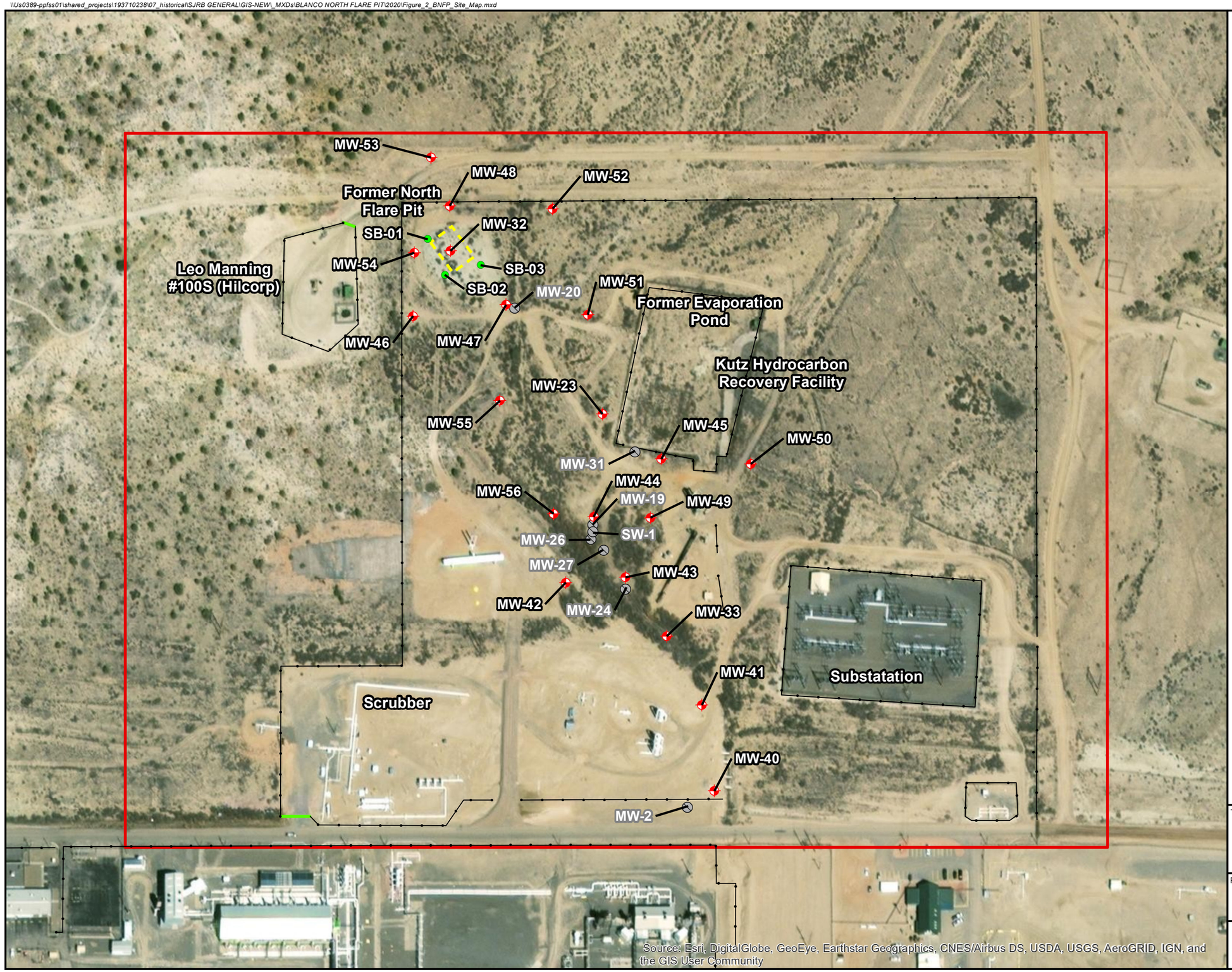
TITLE
SITE LOCATION

Stantec

PROJECT
BLANCO NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

FIGURE
1

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2020\Figure_2_BNFP_Site_Map.mxd



LEGEND

- MONITORING WELL
- ABANDONED/DESTROYED MONITORING WELL
- SOIL BORING
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA

N

SCALE IN FEET

0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	4/2/2021	SLG	SLG	SRV

TITLE:

SITE PLAN

PROJECT:

BLANCO PLANT - NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.:

2

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2020\Figure_3_BNFP_GECM_04-2020.mxd

MW-53
5612.82
MW-53
5610
5600
Former North
Flare Pit
MW-48
MW-48
5597.72
MW-52
MW-52
5593.93
5590
MW-54
5591.92
MW-54
MW-32
MW-32
5591.76
Leo Manning
#100S (Hilcorp)
5600
MW-46
MW-46
5604.25
MW-47
MW-47
5591.03
MW-51
MW-51
5587.68
5580
Former Evaporation
Pond
Kutz Hydrocarbon
Recovery Facility
MW-23
5573.93
MW-23
MW-55
MW-55
5584.69
5570
MW-45
5560.90
MW-50
MW-50
5567.64
MW-45
MW-44
MW-49
5560
MW-56
MW-56
5568.43
MW-44
5559.10
MW-49
5559.13
MW-43
5557.18
MW-42
MW-43
MW-42
5554.49
MW-33
5576.36
MW-33
5570
5560
Substatation
Scrubber
MW-41
MW-41
5558.32
5560
MW-40
MW-40
5558.09

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 6021.62 — GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 5564 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET
0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	4/2/2021	SLG	SLG	SRV

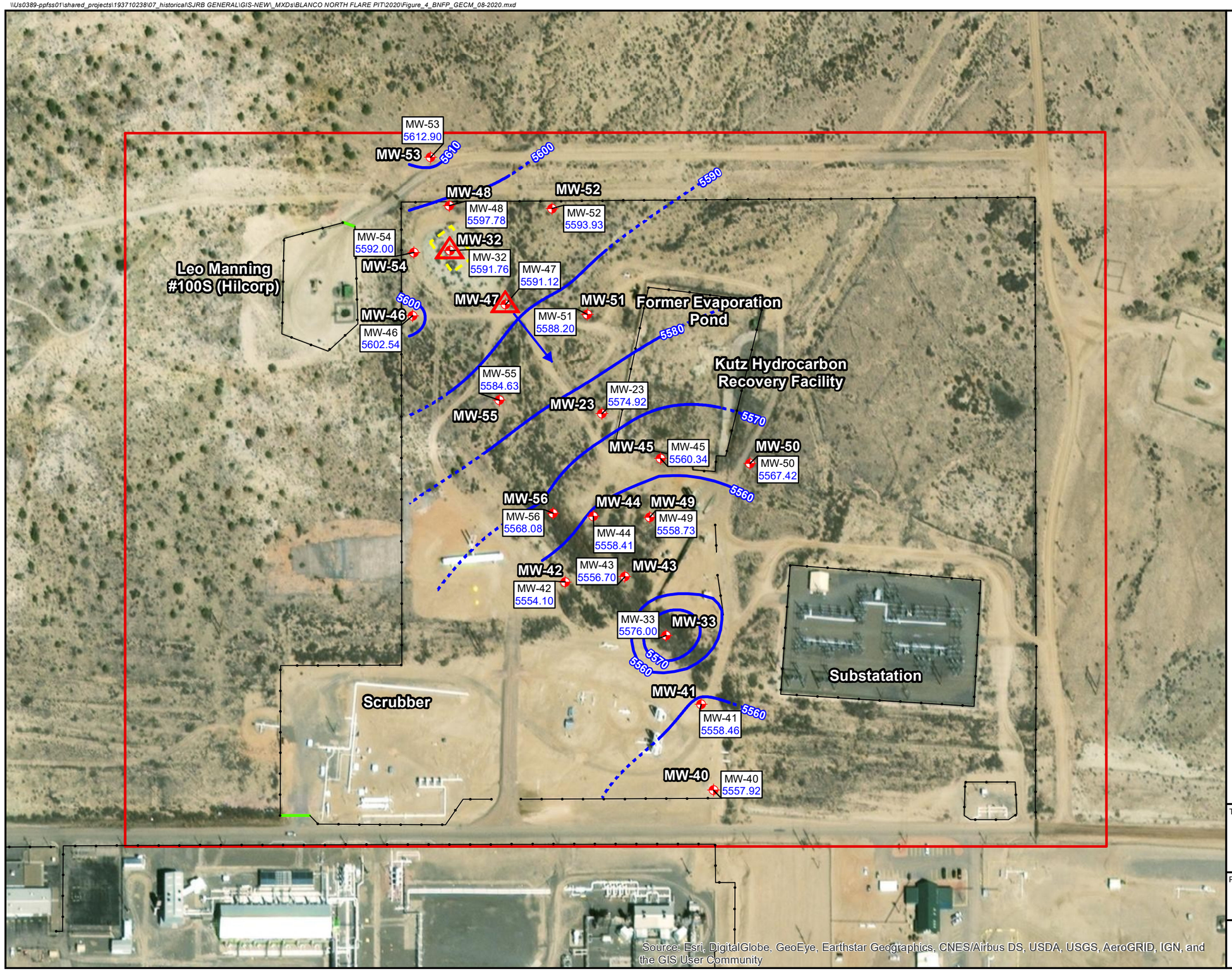
TITLE:
GROUNDWATER ELEVATION MAP
APRIL 27, 2020

PROJECT:
BLANCO PLANT - NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.:
3

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2020\Figure_4_BNFP_GECM_08-2020.mxd



LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 6021.62 — GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 6021 — CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET

0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	4/2/2021	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
AUGUST 18, 2020

PROJECT:

BLANCO PLANT - NORTH FLARE PIT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 4

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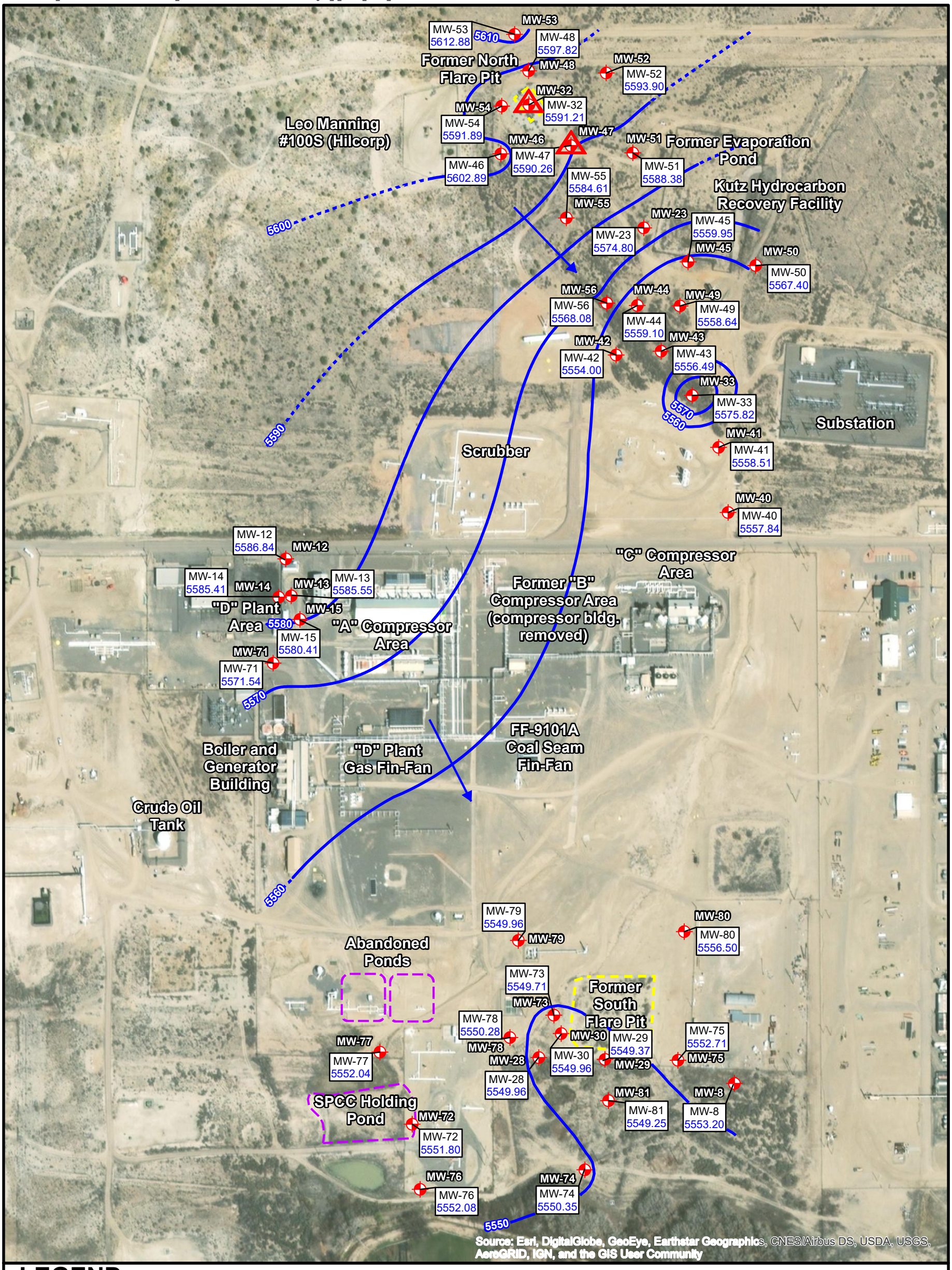


LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- SITE FEATURE
- FLARE PIT
- 6021.62 GROUNDWATER ELEVATION CORRECTED FOR PRODUCT THICKNESS WHERE PRESENT (FEET ABOVE MEAN SEA LEVEL).
- 6021 CORRECTED WATER LEVEL ELEVATION CONTOUR DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL).
- DIRECTION OF APPARENT GROUNDWATER FLOW

N

SCALE IN FEET

0 200 400

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/17/2021	SLG	SLG	SRV

TITLE:

GROUNDWATER ELEVATION MAP
NOVEMBER 17, 2020

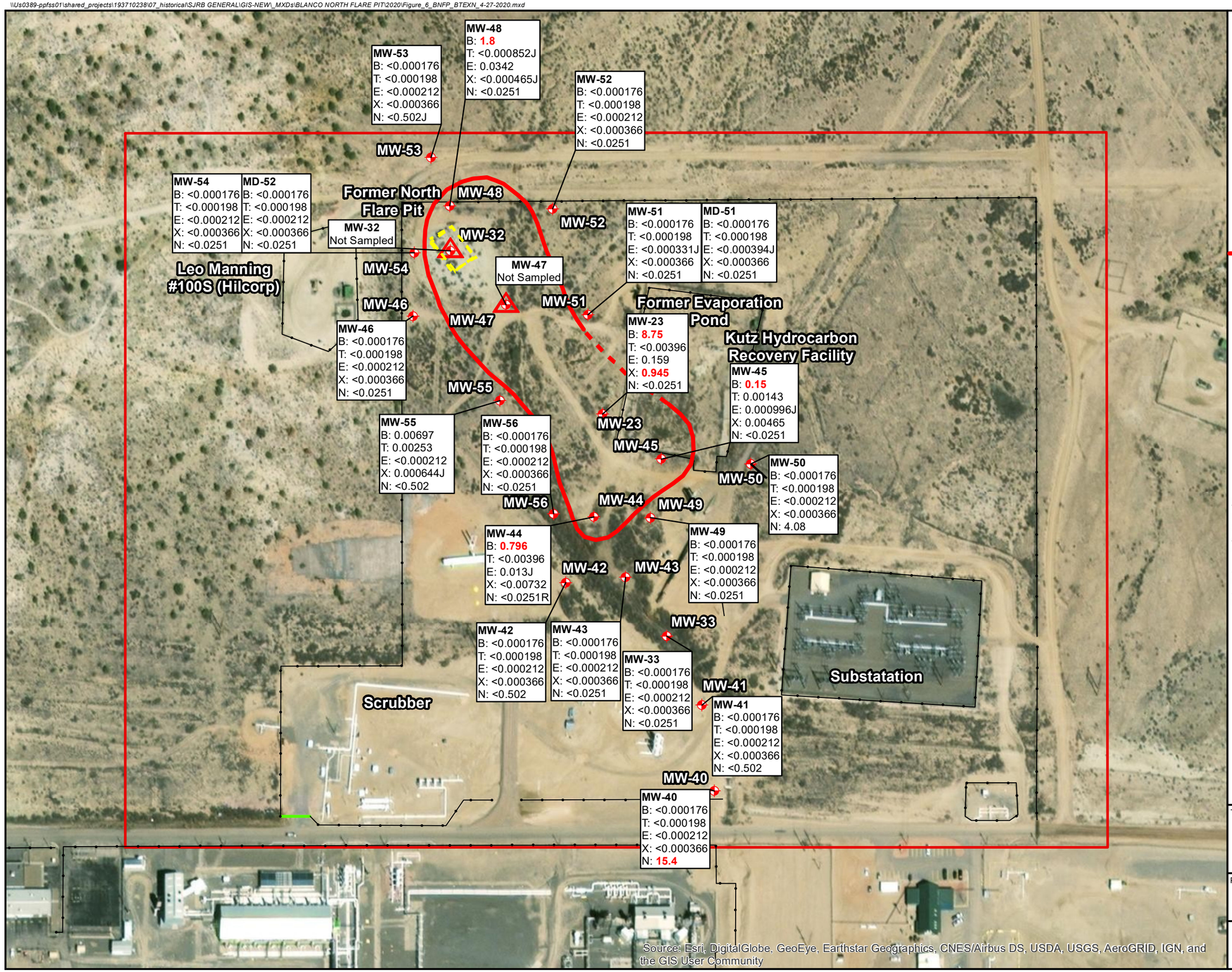
PROJECT:

BLANCO PLANT
BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 5

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2020\Figure_6_BNFP_BTEXN_4-27-2020.mxd



LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 0.01 — BENZENE 0.01 mg/L ISOCONCENTRATION IN GROUNDWATER. DASHED WHERE INFERRED.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT
J = INDICATES ESTIMATED CONCENTRATION INDETERMINATE BIAS
J- = INDICATES ESTIMATED CONCENTRATION BIAS LOW
MD-XX = DUPLICATE SAMPLE RESULT

ANALYTE	NMWQCC STANDARDS
B = Benzene	0.01 mg/L
T = Toluene	0.75 mg/L
E = Ethylbenzene	0.75 mg/L
X = Total Xylenes	0.62 mg/L
N = Nitrate	10 mg/L

N

SCALE IN FEET
0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/24/2021	SAH	SAH	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS APRIL 27 & 28, 2020

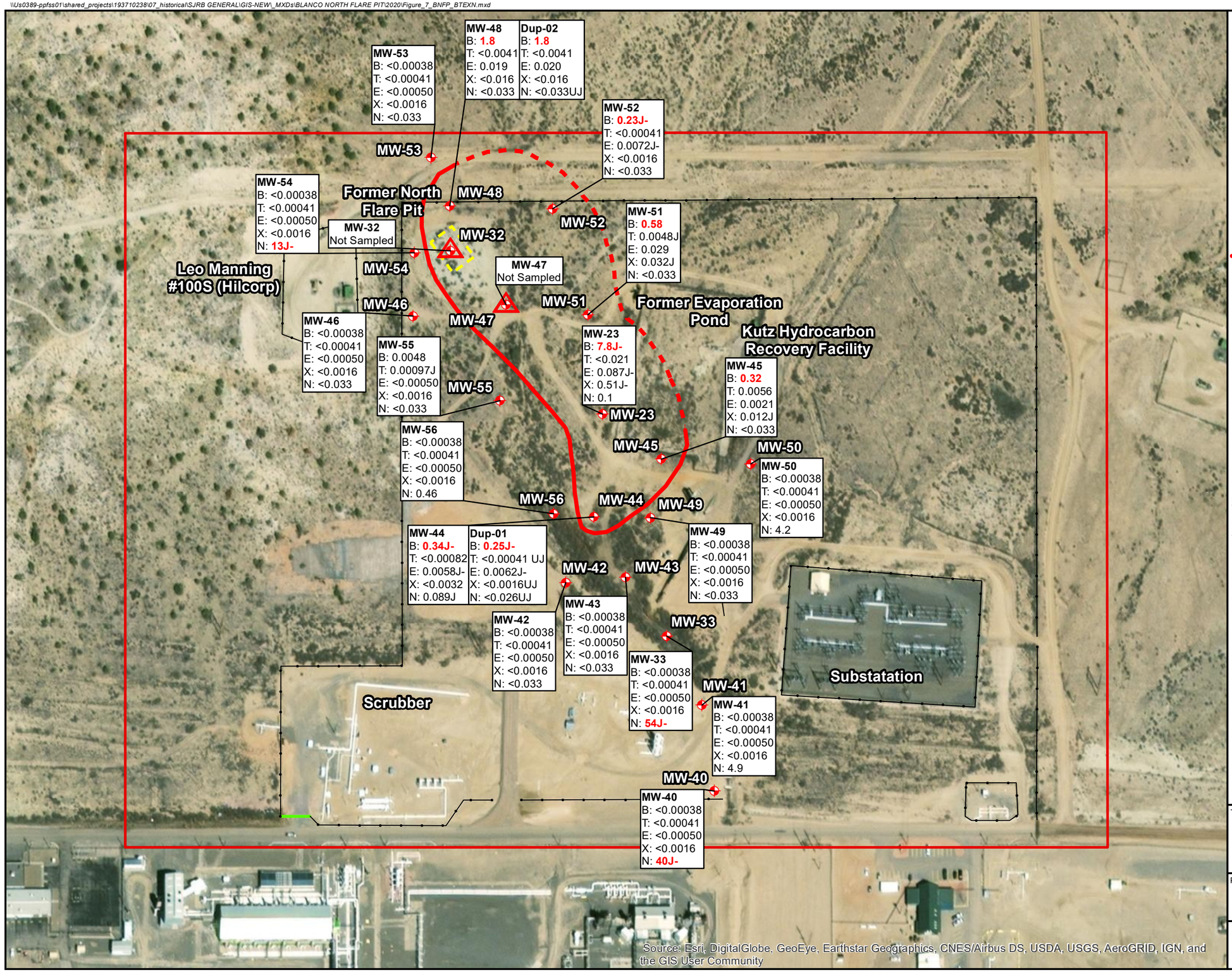
PROJECT:

BLANCO PLANT - NORTH FLARE PIT BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 6

\\Us0389-ppfss01\shared_projects\193710238\07_historical\SJRB GENERAL\GIS-NEW_MXDs\BLANCO NORTH FLARE PIT\2020\Figure_7_BNFP_BTEXN.mxd



LEGEND

- MONITORING WELL
- MONITORING WELL WITH MEASURABLE FREE PRODUCT
- FENCE
- GATE
- FORMER FLARE PIT
- STUDY AREA
- 0.01 — BENZENE 0.01 mg/L ISOCONCENTRATION IN GROUNDWATER. DASHED WHERE INFERRED.

EXPLANATION OF ANALYTES AND APPLICABLE STANDARDS:

RESULTS IN **BOLDFACE/RED** TYPE INDICATE CONCENTRATION IN EXCESS OF THE STANDARD FOR THAT ANALYTE.
NS = NOT SAMPLED
mg/L = MILLIGRAMS PER LITER
<1 = BELOW METHOD DETECTION LIMIT
J = INDICATES ESTIMATED CONCENTRATION INDETERMINATE BIAS
J- = INDICATES ESTIMATED CONCENTRATION BIAS LOW
Dup = DUPLICATE SAMPLE RESULT

ANALYTE	NMWQCC STANDARDS
B = Benzene	0.01 mg/L
T = Toluene	0.75 mg/L
E = Ethylbenzene	0.75 mg/L
X = Total Xylenes	0.62 mg/L
N = Nitrate	10 mg/L

N

SCALE IN FEET
0 100 200

REVISION	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
	3/24/2021	SLG	SLG	SRV

TITLE:

GROUNDWATER ANALYTICAL RESULTS NOVEMBER 18, 2020

PROJECT:

BLANCO PLANT - NORTH FLARE PIT BLOOMFIELD, NEW MEXICO

Stantec

Figure No.: 7

APPENDICES

APPENDIX A

From: Varsa, Steve
To: Smith, Cory, EMNRD
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Bcc: Varsa, Steve
Subject: El Paso CGP Company - Blanco Plant/North Flare Pit - notice of upcoming gauging and product recovery activities
Date: Thursday, August 13, 2020 6:21:00 AM

Hi Cory -

This correspondence is to provide notice to the NMOCD of planned well gauging and product recovery activities at the above-referenced El Paso CGP Company (EPCGP) site. The site activities are to occur on August 18, 2020.

Please feel free to contact Joe Wiley, Project Manager at EPCGP, or me, if you need further information.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

From: Smith, Cory, EMNRD
To: Varsa, Steve
Cc: Griswold, Jim, EMNRD; Wiley, Joe
Subject: RE: El Paso CGP Company/Blanco Plant North Flare Pit - Notice of upcoming sampling activities
Date: Thursday, November 05, 2020 8:57:11 AM

Steve,

Thank you for the notification.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Varsa, Steve <steve.varsa@stantec.com>
Sent: Thursday, November 5, 2020 6:12 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Griswold, Jim, EMNRD <Jim.Griswold@state.nm.us>; Wiley, Joe <joe_wiley@kindermorgan.com>
Subject: [EXT] El Paso CGP Company/Blanco Plant North Flare Pit - Notice of upcoming sampling activities

Hi Cory –

On behalf of El Paso CGP Company (EPCGP), this correspondence is to provide notice to the NMOCD of upcoming groundwater sampling and monitoring activities at the above-referenced project site. Field activities are to occur on November 17 and 18, 2020.

Please contact Mr. Joseph Wiley, Project Manager with EPCGP, at (713) 420-3475, if you have questions.

Thank you,
Steve

Stephen Varsa, P.G.
Senior Hydrogeologist
Stantec Environmental Services
11153 Aurora Avenue
Des Moines, Iowa 50322
Direct: (515) 251-1020
Cell: (515) 710-7523
Office: (515) 253-0830
steve.varsa@stantec.com

APPENDIX B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 791991
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 4-28-22

DEL. TKT#. Jacobs

GENERATOR: Mckenzie Booth 262-227-2781

BILL TO: ~~Mckenzie Booth~~

HAULING CO. Hydrotech Jacobs

DRIVER: Mckenzie Booth (Print Full Name)

ORDERED BY: Joseph WILEY

CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☑ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1	Q	Blanco Plant	/	70			70 C	
2								
3								
4								
5								

I, [signature] representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☑ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

SAN JUAN PRINTING 0818018B

BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 796734
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 8 18 20
DEL. TKT#.
GENERATOR: El paso CGP
BILL TO: El paso C
HAULING CO. ~~Elpaso CGP~~ Slantech
DRIVER: Steve (Print Full Name)
ORDERED BY: Steve
CODES:

WASTE DESCRIPTION: ☒ Exempt Oilfield Waste ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☐ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		Blanco NFP	3	70			210	
2								
3								
4								
5								

I, ______________________ representitive or authorized agent for the above generator and hauler hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination that the above described waste is RCRA Exempt Oil field wastes.

☐ Approved ☐ Denied ATTENDANT SIGNATURE ______________________

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BASIN DISPOSAL

30 Years of Environmental Health and Safety Excellence

200 Montana, Bloomfield, NM 87413
505-632-8936 or 505-334-3013
OPEN 24 Hours per Day

NO. 800760
NMOCD PERMIT: NM -001-0005
Oil Field Waste Document, Form C138
INVOICE:

DATE 11-20-20
DEL. TKT#.
GENERATOR: Stantec
BILL TO: Stantec
HAULING CO. Stantec
DRIVER: Stantec (Print Full Name)
ORDERED BY: Joel Whitley
CODES:

WASTE DESCRIPTION: ☒ **Exempt Oilfield Waste** ☐ Produced Water ☐ Drilling/Completion Fluids

STATE: ☒ NM ☐ CO ☐ AZ ☐ UT

TREATMENT/DISPOSAL METHODS: ☒ EVAPORATION ☒ INJECTION ☒ TREATING PLANT

NO.	TRUCK	LOCATION(S)	VOLUME	COST	H2S	COST	TOTAL	TIME
1		North Flare Pit	1				70 ¢	
2								
3								
4								
5								

I, [signature], representative or authorized agent for Stantec do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non -exempt waste.

☑ Approved ☐ Denied ATTENDANT SIGNATURE [signature]

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APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204352-1
Client Project/Site: Kinder Morgan Blanco Field NNP
Revision: 1

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, New Mexico 87109

Attn: Aleeca Forsberg

Marty Edwards

Authorized for release by:
3/2/2021 1:47:02 PM
Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

Designee for

Bethany McDaniel, Senior Project Manager
(713)358-2005
bethany.mcdaniel@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Laboratory Job ID: 600-204352-1

Table of Contents

Case Narrative

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Job ID: 600-204352-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204352-1

Comments
No additional comments.

Receipt
The samples were received on 4/28/2020 10:01 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 600-293424 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge-and-Trap for Aqueous Samples/Unpreserved	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204352-1	BlancoNFP-TB01-04272020	Water	04/27/20 13:00	04/28/20 10:01	
600-204352-2	BlancoNFP-MW53-04272020	Water	04/27/20 13:35	04/28/20 10:01	
600-204352-3	BlancoNFP-MW41-04272020	Water	04/27/20 14:13	04/28/20 10:01	
600-204352-4	BlancoNFP-MW40-04272020	Water	04/27/20 14:35	04/28/20 10:01	
600-204352-5	BlancoNFP-MW42-04272020	Water	04/27/20 14:45	04/28/20 10:01	
600-204352-6	BlancoNFP-MW55-04272020	Water	04/27/20 15:00	04/28/20 10:01	

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204352-1
Project/Site: Kinder Morgan Blanco Field NNP

Client Sample ID: BlancoNFP-TB01-04272020 Lab Sample ID: 600-204352-1

Date Collected: 04/27/20 13:00 **Matrix: Water**
Date Received: 04/28/20 10:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 17:01	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 17:01	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 17:01	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*50 - 134*		*04/30/20 17:01*	*1*
Dibromofluoromethane	*113*		*62 - 130*		*04/30/20 17:01*	*1*
Toluene-d8 (Surr)	*77*		*70 - 130*		*04/30/20 17:01*	*1*
4-Bromofluorobenzene	*83*		*67 - 139*		*04/30/20 17:01*	*1*

Client Sample ID: BlancoNFP-MW53-04272020 Lab Sample ID: 600-204352-2

Date Collected: 04/27/20 13:35 **Matrix: Water**
Date Received: 04/28/20 10:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 17:29	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 17:29	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 17:29	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*		*04/30/20 17:29*	*1*
Dibromofluoromethane	*114*		*62 - 130*		*04/30/20 17:29*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*04/30/20 17:29*	*1*
4-Bromofluorobenzene	*85*		*67 - 139*		*04/30/20 17:29*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.502	U F1 F2	4.00	0.502	mg/L			04/28/20 10:37	20

Client Sample ID: BlancoNFP-MW41-04272020 Lab Sample ID: 600-204352-3

Date Collected: 04/27/20 14:13 **Matrix: Water**
Date Received: 04/28/20 10:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 18:53	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 18:53	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 18:53	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*04/30/20 18:53*	*1*
Dibromofluoromethane	*122*		*62 - 130*		*04/30/20 18:53*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*04/30/20 18:53*	*1*
4-Bromofluorobenzene	*93*		*67 - 139*		*04/30/20 18:53*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.502	U	4.00	0.502	mg/L			04/28/20 11:09	20

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Client Sample ID: BlancoNFP-MW40-04272020

Lab Sample ID: 600-204352-4
Matrix: Water
Date Collected: 04/27/20 14:35
Date Received: 04/28/20 10:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 19:21	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 19:21	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 19:21	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*50 - 134*		*04/30/20 19:21*	*1*
Dibromofluoromethane	*117*		*62 - 130*		*04/30/20 19:21*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*04/30/20 19:21*	*1*
4-Bromofluorobenzene	*87*		*67 - 139*		*04/30/20 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**15.4**		4.00	0.502	mg/L			04/28/20 11:20	20

Client Sample ID: BlancoNFP-MW42-04272020

Lab Sample ID: 600-204352-5
Matrix: Water
Date Collected: 04/27/20 14:45
Date Received: 04/28/20 10:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 19:50	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 19:50	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 19:50	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*50 - 134*		*04/30/20 19:50*	*1*
Dibromofluoromethane	*125*		*62 - 130*		*04/30/20 19:50*	*1*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/30/20 19:50*	*1*
4-Bromofluorobenzene	*98*		*67 - 139*		*04/30/20 19:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.502	U	4.00	0.502	mg/L			04/28/20 11:31	20

Client Sample ID: BlancoNFP-MW55-04272020

Lab Sample ID: 600-204352-6
Matrix: Water
Date Collected: 04/27/20 15:00
Date Received: 04/28/20 10:01

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00697**		0.00100	0.000176	mg/L			04/30/20 20:18	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 20:18	1
Toluene	**0.00253**		0.00100	0.000198	mg/L			04/30/20 20:18	1
Xylenes, Total	**0.000644**	**J**	0.00200	0.000366	mg/L			04/30/20 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*50 - 134*		*04/30/20 20:18*	*1*
Dibromofluoromethane	*121*		*62 - 130*		*04/30/20 20:18*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*04/30/20 20:18*	*1*
4-Bromofluorobenzene	*86*		*67 - 139*		*04/30/20 20:18*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204352-1
Project/Site: Kinder Morgan Blanco Field NNP

Client Sample ID: BlancoNFP-MW55-04272020 **Lab Sample ID: 600-204352-6**
Date Collected: 04/27/20 15:00 **Matrix: Water**
Date Received: 04/28/20 10:01

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.502	U	4.00	0.502	mg/L			04/28/20 11:41	20

Definitions/Glossary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204352-1
Project/Site: Kinder Morgan Blanco Field NNP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(50-134)	(62-130)	(70-130)	(67-139)
600-204352-1	BlancoNFP-TB01-04272020	91	113	77	83
600-204352-2	BlancoNFP-MW53-04272020	97	114	83	85
600-204352-2 MS	BlancoNFP-MW53-04272020	92	111	77	87
600-204352-2 MSD	BlancoNFP-MW53-04272020	92	111	79	89
600-204352-3	BlancoNFP-MW41-04272020	105	122	83	93
600-204352-4	BlancoNFP-MW40-04272020	95	117	82	87
600-204352-5	BlancoNFP-MW42-04272020	102	125	89	98
600-204352-6	BlancoNFP-MW55-04272020	96	121	83	86
LCS 600-293609/4	Lab Control Sample	92	111	77	91
LCSD 600-293609/5	Lab Control Sample Dup	100	116	78	91
MB 600-293609/7	Method Blank	100	119	82	88

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-293609/7
Matrix: Water
Analysis Batch: 293609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 16:33	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 16:33	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 16:33	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 16:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*		*04/30/20 16:33*	*1*
Dibromofluoromethane	*119*		*62 - 130*		*04/30/20 16:33*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*04/30/20 16:33*	*1*
4-Bromofluorobenzene	*88*		*67 - 139*		*04/30/20 16:33*	*1*

Lab Sample ID: LCS 600-293609/4
Matrix: Water
Analysis Batch: 293609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.01028		mg/L		103	70 - 130
Ethylbenzene	0.0100	0.009270		mg/L		93	70 - 130
Toluene	0.0100	0.009215		mg/L		92	70 - 130
Xylenes, Total	0.0200	0.01974		mg/L		99	70 - 130
o-Xylene	0.0100	0.009897		mg/L		99	70 - 130
m-Xylene & p-Xylene	0.0100	0.009845		mg/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*
Dibromofluoromethane	*111*		*62 - 130*
Toluene-d8 (Surr)	*77*		*70 - 130*
4-Bromofluorobenzene	*91*		*67 - 139*

Lab Sample ID: LCSD 600-293609/5
Matrix: Water
Analysis Batch: 293609

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.01057		mg/L		106	70 - 130	3	20
Ethylbenzene	0.0100	0.009515		mg/L		95	70 - 130	3	20
Toluene	0.0100	0.009313		mg/L		93	70 - 130	1	20
Xylenes, Total	0.0200	0.01996		mg/L		100	70 - 130	1	20
o-Xylene	0.0100	0.01014		mg/L		101	70 - 130	2	20
m-Xylene & p-Xylene	0.0100	0.009820		mg/L		98	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*
Dibromofluoromethane	*116*		*62 - 130*
Toluene-d8 (Surr)	*78*		*70 - 130*
4-Bromofluorobenzene	*91*		*67 - 139*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-204352-2 MS
Matrix: Water
Analysis Batch: 293609

Client Sample ID: BlancoNFP-MW53-04272020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000176	U	0.0100	0.009687		mg/L		97	70 - 130
Ethylbenzene	0.000212	U	0.0100	0.008756		mg/L		88	70 - 130
Toluene	0.000198	U	0.0100	0.008781		mg/L		88	70 - 130
Xylenes, Total	0.000366	U	0.0200	0.01829		mg/L		91	70 - 130
o-Xylene	0.000192	U	0.0100	0.009271		mg/L		93	70 - 130
m-Xylene & p-Xylene	0.000205	U	0.0100	0.009019		mg/L		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*
Dibromofluoromethane	*111*		*62 - 130*
Toluene-d8 (Surr)	*77*		*70 - 130*
4-Bromofluorobenzene	*87*		*67 - 139*

Lab Sample ID: 600-204352-2 MSD
Matrix: Water
Analysis Batch: 293609

Client Sample ID: BlancoNFP-MW53-04272020
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000176	U	0.0100	0.01004		mg/L		100	70 - 130	4	30
Ethylbenzene	0.000212	U	0.0100	0.009279		mg/L		93	70 - 130	6	30
Toluene	0.000198	U	0.0100	0.008915		mg/L		89	70 - 130	2	30
Xylenes, Total	0.000366	U	0.0200	0.01934		mg/L		97	70 - 130	6	30
o-Xylene	0.000192	U	0.0100	0.009761		mg/L		98	70 - 130	5	30
m-Xylene & p-Xylene	0.000205	U	0.0100	0.009579		mg/L		96	70 - 130	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*
Dibromofluoromethane	*111*		*62 - 130*
Toluene-d8 (Surr)	*79*		*70 - 130*
4-Bromofluorobenzene	*89*		*67 - 139*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-293424/6
Matrix: Water
Analysis Batch: 293424

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/28/20 07:18	1

Lab Sample ID: LCS 600-293424/7
Matrix: Water
Analysis Batch: 293424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.748		mg/L		97	90 - 110

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204352-1
Project/Site: Kinder Morgan Blanco Field NNP

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-204352-2 MS **Client Sample ID: BlancoNFP-MW53-04272020**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 293424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.502	U F1 F2	40.0	23.72	F1	mg/L		59	80 - 120		

Lab Sample ID: 600-204352-2 MSD **Client Sample ID: BlancoNFP-MW53-04272020**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 293424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.502	U F1 F2	40.0	18.71	F1 F2	mg/L		47	80 - 120	24	20

QC Association Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204352-1
Project/Site: Kinder Morgan Blanco Field NNP

GC/MS VOA

Analysis Batch: 293609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204352-1	BlancoNFP-TB01-04272020	Total/NA	Water	8260B	
600-204352-2	BlancoNFP-MW53-04272020	Total/NA	Water	8260B	
600-204352-3	BlancoNFP-MW41-04272020	Total/NA	Water	8260B	
600-204352-4	BlancoNFP-MW40-04272020	Total/NA	Water	8260B	
600-204352-5	BlancoNFP-MW42-04272020	Total/NA	Water	8260B	
600-204352-6	BlancoNFP-MW55-04272020	Total/NA	Water	8260B	
MB 600-293609/7	Method Blank	Total/NA	Water	8260B	
LCS 600-293609/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293609/5	Lab Control Sample Dup	Total/NA	Water	8260B	
600-204352-2 MS	BlancoNFP-MW53-04272020	Total/NA	Water	8260B	
600-204352-2 MSD	BlancoNFP-MW53-04272020	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 293424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204352-2	BlancoNFP-MW53-04272020	Total/NA	Water	300.0	
600-204352-3	BlancoNFP-MW41-04272020	Total/NA	Water	300.0	
600-204352-4	BlancoNFP-MW40-04272020	Total/NA	Water	300.0	
600-204352-5	BlancoNFP-MW42-04272020	Total/NA	Water	300.0	
600-204352-6	BlancoNFP-MW55-04272020	Total/NA	Water	300.0	
MB 600-293424/6	Method Blank	Total/NA	Water	300.0	
LCS 600-293424/7	Lab Control Sample	Total/NA	Water	300.0	
600-204352-2 MS	BlancoNFP-MW53-04272020	Total/NA	Water	300.0	
600-204352-2 MSD	BlancoNFP-MW53-04272020	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NNP

Job ID: 600-204352-1

Client Sample ID: BlancoNFP-TB01-04272020 — Lab Sample ID: 600-204352-1

Date Collected: 04/27/20 13:00 — **Matrix: Water**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 17:01	KLV	TAL HOU

Client Sample ID: BlancoNFP-MW53-04272020 — Lab Sample ID: 600-204352-2

Date Collected: 04/27/20 13:35 — **Matrix: Water**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 17:29	KLV	TAL HOU
Total/NA	Analysis	300.0		20			293424	04/28/20 10:37	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW41-04272020 — Lab Sample ID: 600-204352-3

Date Collected: 04/27/20 14:13 — **Matrix: Water**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 18:53	KLV	TAL HOU
Total/NA	Analysis	300.0		20			293424	04/28/20 11:09	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW40-04272020 — Lab Sample ID: 600-204352-4

Date Collected: 04/27/20 14:35 — **Matrix: Water**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 19:21	KLV	TAL HOU
Total/NA	Analysis	300.0		20			293424	04/28/20 11:20	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW42-04272020 — Lab Sample ID: 600-204352-5

Date Collected: 04/27/20 14:45 — **Matrix: Water**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 19:50	KLV	TAL HOU
Total/NA	Analysis	300.0		20			293424	04/28/20 11:31	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW55-04272020 — Lab Sample ID: 600-204352-6

Date Collected: 04/27/20 15:00 — **Matrix: Water**
Date Received: 04/28/20 10:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 20:18	KLV	TAL HOU
Total/NA	Analysis	300.0		20			293424	04/28/20 11:41	W1N	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204352-1
Project/Site: Kinder Morgan Blanco Field NNP

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

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Client Information	Sampler: MBooth	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): 6684-2642-7795	COC No: 600-76584-19496.5
Client Contact: Aleeca Forsberg	Phone: 262-227-2781	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 1 of 1
Company: CH2M Hill, Inc.				Job #:
Address: 3721 Rutledge Rd. NE Suite B-1	Due Date Requested:			
City: Albuquerque	TAT Requested (days):			
State, Zip: NM, 87109				
Phone:	PO #:			
Email: aleeca.forsberg@jacobs.com	WO #:			
Project Name: Kinder Morgan Bloomfield, NM NFP	Project #: 60004617			
Site: Blanco North	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - BTEX Only (unpreserved)	300_ORGFMS - Nitrate (SHORT HOLDS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
BlancoNFP-TB01-04272020	4/27/20	1300	G	Water	N	N	X		2	
BlancoNFP-MW53-04272020	4/27/20	1335	G	Water	N	Y	X	X	12	
BlancoNFP-MW41-04272020	4/27/20	1413	G	Water	N	N	X	X	4	
BlancoNFP-MW40-04272020	4/27/20	1435	G	Water	N	N	X	X	4	
BlancoNFP-MW42-04272020	4/27/20	1445	G	Water	N	N	X	X	4	
BlancoNFP-MW55-04272020	4/27/20	1500	G	Water	N	N	X	X	4	
				Water						
				Water						

600-204352 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	4/27/2020 1530	Jacobs	YCRD	4/28/20 1001	EIA
Relinquished by:					
Relinquished by:					

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

'20 APR 28 10:01

Loc: 600
204352

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Eurofins TestAmerica Houston

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: CH2M

UNPACKED BY: FF CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7795	X / N	X / N	1.2	678	-0.1	1.1
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N			4/28/20	
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

4/28/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-204352-1

Login Number: 204352 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-204438-1
Client Project/Site: Kinder Morgan Blanco Field NFP
Revision: 1

For:
Jacobs Engineering Group, Inc.
3721 Rutledge Rd NE
Suite B-1
Albuquerque, New Mexico 87109

Attn: Aleeca Forsberg

Authorized for release by:
3/2/2021 1:28:57 PM
Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

Designee for

Bethany McDaniel, Senior Project Manager
(713)358-2005
bethany.mcdaniel@testamericainc.com

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NFP

Laboratory Job ID: 600-204438-1

Table of Contents

Case Narrative

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NFP

Job ID: 600-204438-1

Job ID: 600-204438-1

Laboratory: Eurofins TestAmerica, Houston

Narrative

Job Narrative
600-204438-1

Comments
No additional comments.

Receipt
The samples were received on 4/29/2020 12:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
Method 8260B: The following sample was diluted due to the nature of the sample matrix: BlancoNFP-MW44-04282020 (600-204438-3). Elevated reporting limits (RLs) are provided.

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: BlancoNFP-MW45-04282020 (600-204438-6), BlancoNFP-MW23-04282020 (600-204438-9) and BlancoNFP-MW48-04282020 (600-204438-13). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 600-293546 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NFP

Job ID: 600-204438-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
300.0	Anions, Ion Chromatography	MCAWW	TAL HOU
5030B	Purge-and-Trap for Aqueous Samples/Unpreserved	SW846	TAL HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NFP

Job ID: 600-204438-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-204438-1	BlancoNFP-MW56-04282020	Water	04/28/20 07:45	04/29/20 12:10	
600-204438-2	BlancoNFP-TB02-04282020	Water	04/28/20 07:30	04/29/20 12:10	
600-204438-3	BlancoNFP-MW44-04282020	Water	04/28/20 08:20	04/29/20 12:10	
600-204438-4	BlancoNFP-MW43-04282020	Water	04/28/20 08:35	04/29/20 12:10	
600-204438-5	BlancoNFP-MW33-04282020	Water	04/28/20 09:00	04/29/20 12:10	
600-204438-6	BlancoNFP-MW45-04282020	Water	04/28/20 09:17	04/29/20 12:10	
600-204438-7	BlancoNFP-MW49-04282020	Water	04/28/20 09:30	04/29/20 12:10	
600-204438-8	BlancoNFP-MW50-04282020	Water	04/28/20 09:50	04/29/20 12:10	
600-204438-9	BlancoNFP-MW23-04282020	Water	04/28/20 10:11	04/29/20 12:10	
600-204438-10	BlancoNFP-MW51-04282020	Water	04/28/20 10:50	04/29/20 12:10	
600-204438-11	BlancoNFP-MD51-04282020	Water	04/28/20 10:51	04/29/20 12:10	
600-204438-12	BlancoNFP-MW52-04282020	Water	04/28/20 11:10	04/29/20 12:10	
600-204438-13	BlancoNFP-MW48-04282020	Water	04/28/20 11:27	04/29/20 12:10	
600-204438-14	BlancoNFP-MW54-04282020	Water	04/28/20 11:49	04/29/20 12:10	
600-204438-15	BlancoNFP-MD54-04282020	Water	04/28/20 11:50	04/29/20 12:10	
600-204438-16	BlancoNFP-MW46-04282020	Water	04/28/20 12:05	04/29/20 12:10	

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW56-04282020 Lab Sample ID: 600-204438-1

Date Collected: 04/28/20 07:45 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 20:46	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 20:46	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 20:46	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 134*		*04/30/20 20:46*	*1*
Dibromofluoromethane	*123*		*62 - 130*		*04/30/20 20:46*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*04/30/20 20:46*	*1*
4-Bromofluorobenzene	*93*		*67 - 139*		*04/30/20 20:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 20:19	1

Client Sample ID: BlancoNFP-TB02-04282020 Lab Sample ID: 600-204438-2

Date Collected: 04/28/20 07:30 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 17:14	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			05/01/20 17:14	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			05/01/20 17:14	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			05/01/20 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/01/20 17:14*	*1*
Dibromofluoromethane	*113*		*62 - 130*		*05/01/20 17:14*	*1*
Toluene-d8 (Surr)	*85*		*70 - 130*		*05/01/20 17:14*	*1*
4-Bromofluorobenzene	*93*		*67 - 139*		*05/01/20 17:14*	*1*

Client Sample ID: BlancoNFP-MW44-04282020 Lab Sample ID: 600-204438-3

Date Collected: 04/28/20 08:20 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.796**		0.0200	0.00352	mg/L			05/01/20 00:59	20
Ethylbenzene	**0.0130**	**J**	0.0200	0.00424	mg/L			05/01/20 00:59	20
Toluene	0.00396	U	0.0200	0.00396	mg/L			05/01/20 00:59	20
Xylenes, Total	0.00732	U	0.0400	0.00732	mg/L			05/01/20 00:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*50 - 134*		*05/01/20 00:59*	*20*
Dibromofluoromethane	*118*		*62 - 130*		*05/01/20 00:59*	*20*
Toluene-d8 (Surr)	*82*		*70 - 130*		*05/01/20 00:59*	*20*
4-Bromofluorobenzene	*97*		*67 - 139*		*05/01/20 00:59*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U F1	0.200	0.0251	mg/L			04/29/20 20:51	1

Client Sample Results

Client: Jacobs Engineering Group, Inc.
Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW43-04282020
Lab Sample ID: 600-204438-4
Date Collected: 04/28/20 08:35
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 21:14	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 21:14	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 21:14	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*		*04/30/20 21:14*	*1*
Dibromofluoromethane	*124*		*62 - 130*		*04/30/20 21:14*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*04/30/20 21:14*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*04/30/20 21:14*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 21:24	1

Client Sample ID: BlancoNFP-MW33-04282020
Lab Sample ID: 600-204438-5
Date Collected: 04/28/20 09:00
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 21:42	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 21:42	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 21:42	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*50 - 134*		*04/30/20 21:42*	*1*
Dibromofluoromethane	*118*		*62 - 130*		*04/30/20 21:42*	*1*
Toluene-d8 (Surr)	*78*		*70 - 130*		*04/30/20 21:42*	*1*
4-Bromofluorobenzene	*83*		*67 - 139*		*04/30/20 21:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 21:34	1

Client Sample ID: BlancoNFP-MW45-04282020
Lab Sample ID: 600-204438-6
Date Collected: 04/28/20 09:17
Matrix: Water
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.000996**	**J**	0.00100	0.000212	mg/L			05/01/20 19:06	1
Toluene	**0.00143**		0.00100	0.000198	mg/L			05/01/20 19:06	1
Xylenes, Total	**0.00465**		0.00200	0.000366	mg/L			05/01/20 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*50 - 134*		*05/01/20 19:06*	*1*
Dibromofluoromethane	*117*		*62 - 130*		*05/01/20 19:06*	*1*
Toluene-d8 (Surr)	*79*		*70 - 130*		*05/01/20 19:06*	*1*
4-Bromofluorobenzene	*84*		*67 - 139*		*05/01/20 19:06*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW45-04282020 Lab Sample ID: 600-204438-6

Date Collected: 04/28/20 09:17 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.150		0.0200	0.00352	mg/L			05/01/20 01:27	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*50 - 134*		*05/01/20 01:27*	*20*
Dibromofluoromethane	*112*		*62 - 130*		*05/01/20 01:27*	*20*
Toluene-d8 (Surr)	*82*		*70 - 130*		*05/01/20 01:27*	*20*
4-Bromofluorobenzene	*93*		*67 - 139*		*05/01/20 01:27*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 21:45	1

Client Sample ID: BlancoNFP-MW49-04282020 Lab Sample ID: 600-204438-7

Date Collected: 04/28/20 09:30 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 22:10	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 22:10	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 22:10	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*50 - 134*		*04/30/20 22:10*	*1*
Dibromofluoromethane	*119*		*62 - 130*		*04/30/20 22:10*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*04/30/20 22:10*	*1*
4-Bromofluorobenzene	*87*		*67 - 139*		*04/30/20 22:10*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 17:48	1

Client Sample ID: BlancoNFP-MW50-04282020 Lab Sample ID: 600-204438-8

Date Collected: 04/28/20 09:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 22:38	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 22:38	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 22:38	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*		*04/30/20 22:38*	*1*
Dibromofluoromethane	*117*		*62 - 130*		*04/30/20 22:38*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*04/30/20 22:38*	*1*
4-Bromofluorobenzene	*86*		*67 - 139*		*04/30/20 22:38*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW50-04282020 Lab Sample ID: 600-204438-8

Date Collected: 04/28/20 09:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	4.08		0.200	0.0251	mg/L			04/29/20 17:59	1

Client Sample ID: BlancoNFP-MW23-04282020 Lab Sample ID: 600-204438-9

Date Collected: 04/28/20 10:11 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.159		0.0200	0.00424	mg/L			05/01/20 19:34	20
Toluene	0.00396	U	0.0200	0.00396	mg/L			05/01/20 19:34	20
Xylenes, Total	0.945		0.0400	0.00732	mg/L			05/01/20 19:34	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/01/20 19:34*	*20*
Dibromofluoromethane	*113*		*62 - 130*		*05/01/20 19:34*	*20*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/01/20 19:34*	*20*
4-Bromofluorobenzene	*89*		*67 - 139*		*05/01/20 19:34*	*20*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.75		0.500	0.0880	mg/L			05/01/20 20:02	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*50 - 134*		*05/01/20 20:02*	*500*
Dibromofluoromethane	*120*		*62 - 130*		*05/01/20 20:02*	*500*
Toluene-d8 (Surr)	*88*		*70 - 130*		*05/01/20 20:02*	*500*
4-Bromofluorobenzene	*92*		*67 - 139*		*05/01/20 20:02*	*500*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 18:10	1

Client Sample ID: BlancoNFP-MW51-04282020 Lab Sample ID: 600-204438-10

Date Collected: 04/28/20 10:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 23:06	1
Ethylbenzene	0.000331	J	0.00100	0.000212	mg/L			04/30/20 23:06	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 23:06	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*50 - 134*		*04/30/20 23:06*	*1*
Dibromofluoromethane	*118*		*62 - 130*		*04/30/20 23:06*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/30/20 23:06*	*1*
4-Bromofluorobenzene	*88*		*67 - 139*		*04/30/20 23:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 18:42	1

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MD51-04282020 Lab Sample ID: 600-204438-11

Date Collected: 04/28/20 10:51 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 23:34	1
Ethylbenzene	**0.000394**	**J**	0.00100	0.000212	mg/L			04/30/20 23:34	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 23:34	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*50 - 134*		*04/30/20 23:34*	*1*
Dibromofluoromethane	*121*		*62 - 130*		*04/30/20 23:34*	*1*
Toluene-d8 (Surr)	*81*		*70 - 130*		*04/30/20 23:34*	*1*
4-Bromofluorobenzene	*87*		*67 - 139*		*04/30/20 23:34*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 18:53	1

Client Sample ID: BlancoNFP-MW52-04282020 Lab Sample ID: 600-204438-12

Date Collected: 04/28/20 11:10 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 00:02	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			05/01/20 00:02	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			05/01/20 00:02	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			05/01/20 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*50 - 134*		*05/01/20 00:02*	*1*
Dibromofluoromethane	*129*		*62 - 130*		*05/01/20 00:02*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*05/01/20 00:02*	*1*
4-Bromofluorobenzene	*95*		*67 - 139*		*05/01/20 00:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 19:04	1

Client Sample ID: BlancoNFP-MW48-04282020 Lab Sample ID: 600-204438-13

Date Collected: 04/28/20 11:27 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**0.0342**		0.00100	0.000212	mg/L			05/01/20 00:31	1
Toluene	**0.000852**	**J**	0.00100	0.000198	mg/L			05/01/20 00:31	1
Xylenes, Total	**0.000465**	**J**	0.00200	0.000366	mg/L			05/01/20 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*50 - 134*		*05/01/20 00:31*	*1*
Dibromofluoromethane	*111*		*62 - 130*		*05/01/20 00:31*	*1*
Toluene-d8 (Surr)	*78*		*70 - 130*		*05/01/20 00:31*	*1*
4-Bromofluorobenzene	*88*		*67 - 139*		*05/01/20 00:31*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW48-04282020 Lab Sample ID: 600-204438-13

Date Collected: 04/28/20 11:27 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.80		0.100	0.0176	mg/L			05/01/20 20:30	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*50 - 134*		*05/01/20 20:30*	*100*
Dibromofluoromethane	*109*		*62 - 130*		*05/01/20 20:30*	*100*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/01/20 20:30*	*100*
4-Bromofluorobenzene	*91*		*67 - 139*		*05/01/20 20:30*	*100*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 19:14	1

Client Sample ID: BlancoNFP-MW54-04282020 Lab Sample ID: 600-204438-14

Date Collected: 04/28/20 11:49 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 17:42	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			05/01/20 17:42	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			05/01/20 17:42	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			05/01/20 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*		*05/01/20 17:42*	*1*
Dibromofluoromethane	*115*		*62 - 130*		*05/01/20 17:42*	*1*
Toluene-d8 (Surr)	*83*		*70 - 130*		*05/01/20 17:42*	*1*
4-Bromofluorobenzene	*93*		*67 - 139*		*05/01/20 17:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 19:25	1

Client Sample ID: BlancoNFP-MD54-04282020 Lab Sample ID: 600-204438-15

Date Collected: 04/28/20 11:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 18:10	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			05/01/20 18:10	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			05/01/20 18:10	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			05/01/20 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*50 - 134*		*05/01/20 18:10*	*1*
Dibromofluoromethane	*115*		*62 - 130*		*05/01/20 18:10*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*		*05/01/20 18:10*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*05/01/20 18:10*	*1*

Client Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MD54-04282020 Lab Sample ID: 600-204438-15

Date Collected: 04/28/20 11:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 19:36	1

Client Sample ID: BlancoNFP-MW46-04282020 Lab Sample ID: 600-204438-16

Date Collected: 04/28/20 12:05 **Matrix: Water**
Date Received: 04/29/20 12:10

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 18:38	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			05/01/20 18:38	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			05/01/20 18:38	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			05/01/20 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*50 - 134*		*05/01/20 18:38*	*1*
Dibromofluoromethane	*123*		*62 - 130*		*05/01/20 18:38*	*1*
Toluene-d8 (Surr)	*87*		*70 - 130*		*05/01/20 18:38*	*1*
4-Bromofluorobenzene	*93*		*67 - 139*		*05/01/20 18:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 20:08	1

Definitions/Glossary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NFP

Job ID: 600-204438-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(50-134)	(62-130)	(70-130)	(67-139)
600-204438-1	BlancoNFP-MW56-04282020	101	123	85	93
600-204438-2	BlancoNFP-TB02-04282020	89	113	85	93
600-204438-3	BlancoNFP-MW44-04282020	101	118	82	97
600-204438-4	BlancoNFP-MW43-04282020	97	124	84	91
600-204438-5	BlancoNFP-MW33-04282020	98	118	78	83
600-204438-6 - DL	BlancoNFP-MW45-04282020	97	112	82	93
600-204438-6	BlancoNFP-MW45-04282020	87	117	79	84
600-204438-7	BlancoNFP-MW49-04282020	99	119	82	87
600-204438-8	BlancoNFP-MW50-04282020	92	117	82	86
600-204438-9	BlancoNFP-MW23-04282020	89	113	84	89
600-204438-9 - DL	BlancoNFP-MW23-04282020	95	120	88	92
600-204438-10	BlancoNFP-MW51-04282020	95	118	86	88
600-204438-11	BlancoNFP-MD51-04282020	99	121	81	87
600-204438-12	BlancoNFP-MW52-04282020	105	129	86	95
600-204438-13	BlancoNFP-MW48-04282020	96	111	78	88
600-204438-13 - DL	BlancoNFP-MW48-04282020	90	109	84	91
600-204438-14	BlancoNFP-MW54-04282020	92	115	83	93
600-204438-15	BlancoNFP-MD54-04282020	89	115	86	91
600-204438-16	BlancoNFP-MW46-04282020	98	123	87	93
LCS 600-293609/4	Lab Control Sample	92	111	77	91
LCS 600-293693/4	Lab Control Sample	103	115	83	100
LCSD 600-293609/5	Lab Control Sample Dup	100	116	78	91
LCSD 600-293693/5	Lab Control Sample Dup	93	104	88	97
MB 600-293609/7	Method Blank	100	119	82	88
MB 600-293693/7	Method Blank	94	108	84	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-293609/7 **Client Sample ID: Method Blank**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 293609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			04/30/20 16:33	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			04/30/20 16:33	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			04/30/20 16:33	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			04/30/20 16:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*		*04/30/20 16:33*	*1*
Dibromofluoromethane	*119*		*62 - 130*		*04/30/20 16:33*	*1*
Toluene-d8 (Surr)	*82*		*70 - 130*		*04/30/20 16:33*	*1*
4-Bromofluorobenzene	*88*		*67 - 139*		*04/30/20 16:33*	*1*

Lab Sample ID: LCS 600-293609/4 **Client Sample ID: Lab Control Sample**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 293609

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.0100	0.01028		mg/L		103	70 - 130		
Ethylbenzene			0.0100	0.009270		mg/L		93	70 - 130		
Toluene			0.0100	0.009215		mg/L		92	70 - 130		
Xylenes, Total			0.0200	0.01974		mg/L		99	70 - 130		
o-Xylene			0.0100	0.009897		mg/L		99	70 - 130		
m-Xylene & p-Xylene			0.0100	0.009845		mg/L		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*50 - 134*
Dibromofluoromethane	*111*		*62 - 130*
Toluene-d8 (Surr)	*77*		*70 - 130*
4-Bromofluorobenzene	*91*		*67 - 139*

Lab Sample ID: LCSD 600-293609/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 293609

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.0100	0.01057		mg/L		106	70 - 130	3	20
Ethylbenzene			0.0100	0.009515		mg/L		95	70 - 130	3	20
Toluene			0.0100	0.009313		mg/L		93	70 - 130	1	20
Xylenes, Total			0.0200	0.01996		mg/L		100	70 - 130	1	20
o-Xylene			0.0100	0.01014		mg/L		101	70 - 130	2	20
m-Xylene & p-Xylene			0.0100	0.009820		mg/L		98	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*50 - 134*
Dibromofluoromethane	*116*		*62 - 130*
Toluene-d8 (Surr)	*78*		*70 - 130*
4-Bromofluorobenzene	*91*		*67 - 139*

QC Sample Results

Client: Jacobs Engineering Group, Inc.
Project/Site: Kinder Morgan Blanco Field NFP

Job ID: 600-204438-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-293693/7
Matrix: Water
Analysis Batch: 293693

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000176	U	0.00100	0.000176	mg/L			05/01/20 16:46	1
Ethylbenzene	0.000212	U	0.00100	0.000212	mg/L			05/01/20 16:46	1
Toluene	0.000198	U	0.00100	0.000198	mg/L			05/01/20 16:46	1
Xylenes, Total	0.000366	U	0.00200	0.000366	mg/L			05/01/20 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*50 - 134*		*05/01/20 16:46*	*1*
Dibromofluoromethane	*108*		*62 - 130*		*05/01/20 16:46*	*1*
Toluene-d8 (Surr)	*84*		*70 - 130*		*05/01/20 16:46*	*1*
4-Bromofluorobenzene	*91*		*67 - 139*		*05/01/20 16:46*	*1*

Lab Sample ID: LCS 600-293693/4
Matrix: Water
Analysis Batch: 293693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.01078		mg/L		108	70 - 130
Ethylbenzene	0.0100	0.009779		mg/L		98	70 - 130
Toluene	0.0100	0.009549		mg/L		95	70 - 130
Xylenes, Total	0.0200	0.02042		mg/L		102	70 - 130
o-Xylene	0.0100	0.01031		mg/L		103	70 - 130
m-Xylene & p-Xylene	0.0100	0.01011		mg/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*50 - 134*
Dibromofluoromethane	*115*		*62 - 130*
Toluene-d8 (Surr)	*83*		*70 - 130*
4-Bromofluorobenzene	*100*		*67 - 139*

Lab Sample ID: LCSD 600-293693/5
Matrix: Water
Analysis Batch: 293693

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0100	0.01085		mg/L		108	70 - 130	1	20
Ethylbenzene	0.0100	0.01017		mg/L		102	70 - 130	4	20
Toluene	0.0100	0.01049		mg/L		105	70 - 130	9	20
Xylenes, Total	0.0200	0.01976		mg/L		99	70 - 130	3	20
o-Xylene	0.0100	0.01036		mg/L		104	70 - 130	1	20
m-Xylene & p-Xylene	0.0100	0.009397		mg/L		94	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*50 - 134*
Dibromofluoromethane	*104*		*62 - 130*
Toluene-d8 (Surr)	*88*		*70 - 130*
4-Bromofluorobenzene	*97*		*67 - 139*

QC Sample Results

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 600-293546/36 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 293546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 19:47	1

Lab Sample ID: MB 600-293546/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 293546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.0251	U	0.200	0.0251	mg/L			04/29/20 14:24	1

Lab Sample ID: LCS 600-293546/37 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 293546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	9.981		mg/L		100	90 - 110

Lab Sample ID: LCS 600-293546/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 293546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	10.0	10.00		mg/L		100	90 - 110

Lab Sample ID: 600-204438-3 MS — **Client Sample ID: BlancoNFP-MW44-04282020**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 293546

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.0251	U F1	2.00	0.0251	U F1	mg/L		0	80 - 120

Lab Sample ID: 600-204438-3 MSD — **Client Sample ID: BlancoNFP-MW44-04282020**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 293546

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.0251	U F1	2.00	0.0251	U F1	mg/L		0	80 - 120	NC	20

QC Association Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

GC/MS VOA

Analysis Batch: 293609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204438-1	BlancoNFP-MW56-04282020	Total/NA	Water	8260B	
600-204438-3	BlancoNFP-MW44-04282020	Total/NA	Water	8260B	
600-204438-4	BlancoNFP-MW43-04282020	Total/NA	Water	8260B	
600-204438-5	BlancoNFP-MW33-04282020	Total/NA	Water	8260B	
600-204438-6 - DL	BlancoNFP-MW45-04282020	Total/NA	Water	8260B	
600-204438-7	BlancoNFP-MW49-04282020	Total/NA	Water	8260B	
600-204438-8	BlancoNFP-MW50-04282020	Total/NA	Water	8260B	
600-204438-10	BlancoNFP-MW51-04282020	Total/NA	Water	8260B	
600-204438-11	BlancoNFP-MD51-04282020	Total/NA	Water	8260B	
600-204438-12	BlancoNFP-MW52-04282020	Total/NA	Water	8260B	
600-204438-13	BlancoNFP-MW48-04282020	Total/NA	Water	8260B	
MB 600-293609/7	Method Blank	Total/NA	Water	8260B	
LCS 600-293609/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293609/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 293693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204438-2	BlancoNFP-TB02-04282020	Total/NA	Water	8260B	
600-204438-6	BlancoNFP-MW45-04282020	Total/NA	Water	8260B	
600-204438-9	BlancoNFP-MW23-04282020	Total/NA	Water	8260B	
600-204438-9 - DL	BlancoNFP-MW23-04282020	Total/NA	Water	8260B	
600-204438-13 - DL	BlancoNFP-MW48-04282020	Total/NA	Water	8260B	
600-204438-14	BlancoNFP-MW54-04282020	Total/NA	Water	8260B	
600-204438-15	BlancoNFP-MD54-04282020	Total/NA	Water	8260B	
600-204438-16	BlancoNFP-MW46-04282020	Total/NA	Water	8260B	
MB 600-293693/7	Method Blank	Total/NA	Water	8260B	
LCS 600-293693/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 600-293693/5	Lab Control Sample Dup	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 293546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-204438-1	BlancoNFP-MW56-04282020	Total/NA	Water	300.0	
600-204438-3	BlancoNFP-MW44-04282020	Total/NA	Water	300.0	
600-204438-4	BlancoNFP-MW43-04282020	Total/NA	Water	300.0	
600-204438-5	BlancoNFP-MW33-04282020	Total/NA	Water	300.0	
600-204438-6	BlancoNFP-MW45-04282020	Total/NA	Water	300.0	
600-204438-7	BlancoNFP-MW49-04282020	Total/NA	Water	300.0	
600-204438-8	BlancoNFP-MW50-04282020	Total/NA	Water	300.0	
600-204438-9	BlancoNFP-MW23-04282020	Total/NA	Water	300.0	
600-204438-10	BlancoNFP-MW51-04282020	Total/NA	Water	300.0	
600-204438-11	BlancoNFP-MD51-04282020	Total/NA	Water	300.0	
600-204438-12	BlancoNFP-MW52-04282020	Total/NA	Water	300.0	
600-204438-13	BlancoNFP-MW48-04282020	Total/NA	Water	300.0	
600-204438-14	BlancoNFP-MW54-04282020	Total/NA	Water	300.0	
600-204438-15	BlancoNFP-MD54-04282020	Total/NA	Water	300.0	
600-204438-16	BlancoNFP-MW46-04282020	Total/NA	Water	300.0	
MB 600-293546/36	Method Blank	Total/NA	Water	300.0	
MB 600-293546/6	Method Blank	Total/NA	Water	300.0	
LCS 600-293546/37	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

HPLC/IC (Continued)

Analysis Batch: 293546 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-293546/7	Lab Control Sample	Total/NA	Water	300.0	
600-204438-3 MS	BlancoNFP-MW44-04282020	Total/NA	Water	300.0	
600-204438-3 MSD	BlancoNFP-MW44-04282020	Total/NA	Water	300.0	

Lab Chronicle

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW56-04282020 Lab Sample ID: 600-204438-1

Date Collected: 04/28/20 07:45 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 20:46	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 20:19	W1N	TAL HOU

Client Sample ID: BlancoNFP-TB02-04282020 Lab Sample ID: 600-204438-2

Date Collected: 04/28/20 07:30 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293693	05/01/20 17:14	KLV	TAL HOU

Client Sample ID: BlancoNFP-MW44-04282020 Lab Sample ID: 600-204438-3

Date Collected: 04/28/20 08:20 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	20 mL	20 mL	293609	05/01/20 00:59	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 20:51	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW43-04282020 Lab Sample ID: 600-204438-4

Date Collected: 04/28/20 08:35 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 21:14	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 21:24	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW33-04282020 Lab Sample ID: 600-204438-5

Date Collected: 04/28/20 09:00 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 21:42	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 21:34	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW45-04282020 Lab Sample ID: 600-204438-6

Date Collected: 04/28/20 09:17 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	20	20 mL	20 mL	293609	05/01/20 01:27	KLV	TAL HOU
Total/NA	Analysis	8260B		1	20 mL	20 mL	293693	05/01/20 19:06	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 21:45	W1N	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW49-04282020 Lab Sample ID: 600-204438-7

Date Collected: 04/28/20 09:30 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 22:10	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 17:48	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW50-04282020 Lab Sample ID: 600-204438-8

Date Collected: 04/28/20 09:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 22:38	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 17:59	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW23-04282020 Lab Sample ID: 600-204438-9

Date Collected: 04/28/20 10:11 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	20 mL	20 mL	293693	05/01/20 19:34	KLV	TAL HOU
Total/NA	Analysis	8260B	DL	500	20 mL	20 mL	293693	05/01/20 20:02	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 18:10	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW51-04282020 Lab Sample ID: 600-204438-10

Date Collected: 04/28/20 10:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 23:06	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 18:42	W1N	TAL HOU

Client Sample ID: BlancoNFP-MD51-04282020 Lab Sample ID: 600-204438-11

Date Collected: 04/28/20 10:51 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	04/30/20 23:34	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 18:53	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW52-04282020 Lab Sample ID: 600-204438-12

Date Collected: 04/28/20 11:10 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	05/01/20 00:02	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 19:04	W1N	TAL HOU

Lab Chronicle

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Client Sample ID: BlancoNFP-MW48-04282020 Lab Sample ID: 600-204438-13

Date Collected: 04/28/20 11:27 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293609	05/01/20 00:31	KLV	TAL HOU
Total/NA	Analysis	8260B	DL	100	20 mL	20 mL	293693	05/01/20 20:30	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 19:14	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW54-04282020 Lab Sample ID: 600-204438-14

Date Collected: 04/28/20 11:49 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293693	05/01/20 17:42	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 19:25	W1N	TAL HOU

Client Sample ID: BlancoNFP-MD54-04282020 Lab Sample ID: 600-204438-15

Date Collected: 04/28/20 11:50 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293693	05/01/20 18:10	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 19:36	W1N	TAL HOU

Client Sample ID: BlancoNFP-MW46-04282020 Lab Sample ID: 600-204438-16

Date Collected: 04/28/20 12:05 **Matrix: Water**
Date Received: 04/29/20 12:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	293693	05/01/20 18:38	KLV	TAL HOU
Total/NA	Analysis	300.0		1			293546	04/29/20 20:08	W1N	TAL HOU

Laboratory References:

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Accreditation/Certification Summary

Client: Jacobs Engineering Group, Inc. Job ID: 600-204438-1
Project/Site: Kinder Morgan Blanco Field NFP

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0759	08-04-20
Louisiana	NELAP	01967	06-30-20
Oklahoma	State	2019-073	08-31-20
Texas	NELAP	T104704223-19-25	10-31-20
USDA	US Federal Programs	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: M Bass	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): 11684-2642-7784	COC No: 600-76584-19496.5
Client Contact: Aleeca Forsberg	Phone: 262-227-2781	E-Mail: bethany.mcdaniel@testamericainc.com		Page: Page 1 of 2
Company: CH2M Hill, Inc.				Job #:
Address: 3721 Rutledge Rd. NE Suite B-1	Due Date Requested:			
City: Albuquerque	TAT Requested (days):			
State, Zip: NM, 87109				
Phone:	PO #:			
Email: aleeca.forsberg@jacobs.com	WO #:			
Project Name: Kinder Morgan Bloomfield, NM NFP	Project #: 60004617			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - BTEX Only (unpreserved)	300_ORGFMS - Nitrate (SHORT HOLDS)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
Blanco NFP-MW56-042820	4/28/20	0745	G	Water	N	N	X	X	4	
Blanco NFP-TB02-042820	4/28/20	0730	G	Water	N	N	X		2	
BlancoNFP-MW44-042820	4/28/20	0822	G	Water	N	N	X	X	4	
BlancoNFP-MW43-042820	4/28/20	0835	G	Water	N	N	X	X	4	
BlancoNFP-MW33-042820	4/28/20	0900	G	Water	N	N	X	X	4	
BlancoNFP-MW45-042820	4/28/20	0917	G	Water	N	N	X	X	4	
BlancoNFP-MW49-042820	4/28/20	0930	G	Water	N	N	X	X	4	
BlancoNFP-MW58-042820	4/28/20	0950	G	Water	N	N	X	X	4	1/2 volume-N
BlancoNFP-MW23-042820	4/28/20	1011	G		N	N	X	X	4	
BlancoNFP-MW51-042820	4/28/20	1050	G		N	N	X	X	4	
BlancoNFP-MD51-042820	4/28/20	1051	G		N	N	X	X	4	

600-204438 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/28/2020 1300			4/29/20 1040	ETA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: M Booth	Lab PM: McDaniel, Bethany A	Carrier Tracking No(s): 1684-2642-7784	COC No: 600-76584-19496.1
Client Contact: Aleeca Forsberg	Phone: 262-227-2781	E-Mail: bethany.mcdaniel@testamericainc.com		Page: ~~Page 1 of 5~~ 2 of 2
Company: CH2M Hill, Inc.				Job #:
Address: 3721 Rutledge Rd. NE Suite B-1	Due Date Requested:			
City: Albuquerque	TAT Requested (days):			
State, Zip: NM, 87109				
Phone:	PO #: WD801120			
Email: aleeca.forsberg@jacobs.com	WO #:			
Project Name: Kinder Morgan Bloomfield, NM NFP	Project #: 60004617			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B_LL - BTEX Only	300_ORGFMS - Anions, Ion Chromatography, Nitrat	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
BlancoNFP-MW52-04282020	4/28/20	1110	G	Water	N	N	X	X	4	
BlancoNFP-MW48-0428 2020	4/28/20	1127	G	Water	N	N	X	X	4	Partial Volume N
BlancoNFP-MW54-0428 2020	4/28/20	1149	G	Water	N	N	X	X	4	
BlancoNFP-MW54-0428 2020	4/28/20	1150	G	Water	N	N	X	X	4	
BlancoNFP-MW46-04282020	4/28/20	1205	G	Water	N	N	X	X	4	
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/28/2020 1300			4/29/20 1210	EFA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Loc: 600
204438

eurofins | Environment Testing TestAmerica

Eurofins TestAmerica Houston

Sample Receipt Checklist

'20 APR 29 12:10

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: CH2M

UNPACKED BY: FF CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
7784	Y / N	Y / N	5.0	678	-0.1	4.9
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N			4/29/20	
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☐YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot #_____ VOA headspace acceptable (5-6mm): ☑YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

4/29/20

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: Jacobs Engineering Group, Inc. Job Number: 600-204438-1

Login Number: 204438 **List Source: Eurofins TestAmerica, Houston**
List Number: 1
Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-196072-1
Client Project/Site: Blanco Gas Plant North

For:
Stantec Consulting Services Inc
11153 Aurora Avenue
Des Moines, Iowa 50322-7904

Attn: Steve Varsa

Marty Edwards

Authorized for release by:
12/14/2020 4:17:26 PM

Marty Edwards, Client Service Manager
(850)471-6227
Marty.Edwards@Eurofinset.com

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Laboratory Job ID: 400-196072-1

Table of Contents

Case Narrative

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Job ID: 400-196072-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-196072-1

Comments
No additional comments.

Receipt
The samples were received on 11/19/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.4º C, 0.7º C and 3.0º C.

GC/MS VOA
Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-02 (400-196072-3), MW-23 (400-196072-4), MW-44 (400-196072-10), MW-45 (400-196072-11), MW-48 (400-196072-13) and MW-51 (400-196072-16). Elevated reporting limits (RLs) are provided.

Method 8260B: The following samples were collected in properly preserved vials; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: DUP-01 (400-196072-2), MW-23 (400-196072-4), MW-44 (400-196072-10) and MW-52 (400-196072-17).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The MRL in Batch 400-511505/5 recovered bias low outside criteria for Nitrite as N, since the CCVs were within criteria, the data is reported.

Method 300.0: The LCS & LCSD in Batch 400-511505 recovered bias low outside criteria for Nitrite as N at 88% & 89% respectively. The passing range is between 90% and 110%. Since the CCVs and MS/MSD were within criteria, the data is reported.

Method 300.0: The following samples were re-analyzed outside of the analytical holding time due to bring target analytes within calibration range and both sets of data are reported: MW-33 (400-196072-5), MW-40 (400-196072-6) and MW-54 (400-196072-19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: TB-01 — Lab Sample ID: 400-196072-1

No Detections.

Client Sample ID: DUP-01 — Lab Sample ID: 400-196072-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.25		0.0010	0.00038	mg/L	1		8260B	Total/NA
Ethylbenzene	0.0062		0.0010	0.00050	mg/L	1		8260B	Total/NA
Nitrate as N	0.095	J	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.095	J	0.10	0.033	mg/L	1		300.0	Total/NA

Client Sample ID: DUP-02 — Lab Sample ID: 400-196072-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8		0.010	0.0038	mg/L	10		8260B	Total/NA
Ethylbenzene	0.020		0.010	0.0050	mg/L	10		8260B	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 400-196072-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.8		0.050	0.019	mg/L	50		8260B	Total/NA
Ethylbenzene	0.087		0.050	0.025	mg/L	50		8260B	Total/NA
Xylenes, Total	0.51		0.50	0.080	mg/L	50		8260B	Total/NA
Nitrate as N	0.10		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.10		0.10	0.033	mg/L	1		300.0	Total/NA

Client Sample ID: MW-33 — Lab Sample ID: 400-196072-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	57	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	57	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrite as N	0.077	J *	0.10	0.026	mg/L	1		300.0	Total/NA
Nitrate as N - DL	54	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N - DL	54	H	1.0	0.33	mg/L	10		300.0	Total/NA

Client Sample ID: MW-40 — Lab Sample ID: 400-196072-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	42	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	43	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrite as N	0.59	*	0.10	0.026	mg/L	1		300.0	Total/NA
Nitrate as N - DL	40	H	1.0	0.33	mg/L	10		300.0	Total/NA
Nitrate Nitrite as N - DL	40	H	1.0	0.33	mg/L	10		300.0	Total/NA

Client Sample ID: MW-41 — Lab Sample ID: 400-196072-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	4.9		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	5.0		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrite as N	0.11	*	0.10	0.026	mg/L	1		300.0	Total/NA

Client Sample ID: MW-42 — Lab Sample ID: 400-196072-8

No Detections.

Client Sample ID: MW-43 — Lab Sample ID: 400-196072-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-44 — Lab Sample ID: 400-196072-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.34		0.0020	0.00076	mg/L	2		8260B	Total/NA
Ethylbenzene	0.0058		0.0020	0.0010	mg/L	2		8260B	Total/NA
Nitrate as N	0.089	J	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.089	J	0.10	0.033	mg/L	1		300.0	Total/NA

Client Sample ID: MW-45 — Lab Sample ID: 400-196072-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.32		0.0020	0.00076	mg/L	2		8260B	Total/NA
Ethylbenzene	0.0021		0.0020	0.0010	mg/L	2		8260B	Total/NA
Toluene	0.0056		0.0020	0.00082	mg/L	2		8260B	Total/NA
Xylenes, Total	0.012	J	0.020	0.0032	mg/L	2		8260B	Total/NA

Client Sample ID: MW-46 — Lab Sample ID: 400-196072-12

No Detections.

Client Sample ID: MW-48 — Lab Sample ID: 400-196072-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8		0.010	0.0038	mg/L	10		8260B	Total/NA
Ethylbenzene	0.019		0.010	0.0050	mg/L	10		8260B	Total/NA

Client Sample ID: MW-49 — Lab Sample ID: 400-196072-14

No Detections.

Client Sample ID: MW-50 — Lab Sample ID: 400-196072-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	4.2		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	4.2		0.10	0.033	mg/L	1		300.0	Total/NA

Client Sample ID: MW-51 — Lab Sample ID: 400-196072-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.58		0.0050	0.0019	mg/L	5		8260B	Total/NA
Ethylbenzene	0.029		0.0050	0.0025	mg/L	5		8260B	Total/NA
Toluene	0.0048	J	0.0050	0.0021	mg/L	5		8260B	Total/NA
Xylenes, Total	0.032	J	0.050	0.0080	mg/L	5		8260B	Total/NA

Client Sample ID: MW-52 — Lab Sample ID: 400-196072-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.23		0.0010	0.00038	mg/L	1		8260B	Total/NA
Ethylbenzene	0.0072		0.0010	0.00050	mg/L	1		8260B	Total/NA

Client Sample ID: MW-53 — Lab Sample ID: 400-196072-18

No Detections.

Client Sample ID: MW-54 — Lab Sample ID: 400-196072-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	13	E	0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	13	E	0.10	0.033	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Pensacola

Detection Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-54 (Continued) — Lab Sample ID: 400-196072-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N - DL	13	H	0.50	0.17	mg/L	5		300.0	Total/NA
Nitrate Nitrite as N - DL	13	H	0.50	0.17	mg/L	5		300.0	Total/NA

Client Sample ID: MW-55 — Lab Sample ID: 400-196072-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.0048		0.0010	0.00038	mg/L	1		8260B	Total/NA
Toluene	0.00097	J	0.0010	0.00041	mg/L	1		8260B	Total/NA

Client Sample ID: MW-56 — Lab Sample ID: 400-196072-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.46		0.10	0.033	mg/L	1		300.0	Total/NA
Nitrate Nitrite as N	0.46		0.10	0.033	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Sample Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-196072-1	TB-01	Water	11/18/20 07:00	11/19/20 09:30	
400-196072-2	DUP-01	Water	11/18/20 11:00	11/19/20 09:30	
400-196072-3	DUP-02	Water	11/18/20 09:00	11/19/20 09:30	
400-196072-4	MW-23	Water	11/18/20 09:22	11/19/20 09:30	
400-196072-5	MW-33	Water	11/18/20 11:20	11/19/20 09:30	
400-196072-6	MW-40	Water	11/18/20 07:10	11/19/20 09:30	
400-196072-7	MW-41	Water	11/18/20 07:28	11/19/20 09:30	
400-196072-8	MW-42	Water	11/18/20 07:44	11/19/20 09:30	
400-196072-9	MW-43	Water	11/18/20 11:10	11/19/20 09:30	
400-196072-10	MW-44	Water	11/18/20 10:30	11/19/20 09:30	
400-196072-11	MW-45	Water	11/18/20 09:33	11/19/20 09:30	
400-196072-12	MW-46	Water	11/18/20 08:00	11/19/20 09:30	
400-196072-13	MW-48	Water	11/18/20 08:30	11/19/20 09:30	
400-196072-14	MW-49	Water	11/18/20 09:40	11/19/20 09:30	
400-196072-15	MW-50	Water	11/18/20 10:04	11/19/20 09:30	
400-196072-16	MW-51	Water	11/18/20 09:08	11/19/20 09:30	
400-196072-17	MW-52	Water	11/18/20 08:56	11/19/20 09:30	
400-196072-18	MW-53	Water	11/18/20 08:40	11/19/20 09:30	
400-196072-19	MW-54	Water	11/18/20 08:09	11/19/20 09:30	
400-196072-20	MW-55	Water	11/18/20 11:35	11/19/20 09:30	
400-196072-21	MW-56	Water	11/18/20 10:45	11/19/20 09:30	

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: TB-01

Date Collected: 11/18/20 07:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 18:15	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 18:15	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 18:15	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*78 - 118*		*11/30/20 18:15*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*11/30/20 18:15*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/30/20 18:15*	*1*

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: DUP-01
Date Collected: 11/18/20 11:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.25**		0.0010	0.00038	mg/L			11/30/20 18:37	1
Ethylbenzene	**0.0062**		0.0010	0.00050	mg/L			11/30/20 18:37	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 18:37	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*11/30/20 18:37*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*11/30/20 18:37*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*11/30/20 18:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.095**	**J**	0.10	0.033	mg/L			11/20/20 09:39	1
Nitrate Nitrite as N	**0.095**	**J**	0.10	0.033	mg/L			11/20/20 09:39	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 09:39	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: DUP-02

Date Collected: 11/18/20 09:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.8**		0.010	0.0038	mg/L			11/30/20 23:44	10
Ethylbenzene	**0.020**		0.010	0.0050	mg/L			11/30/20 23:44	10
Toluene	0.0041	U	0.010	0.0041	mg/L			11/30/20 23:44	10
Xylenes, Total	0.016	U	0.10	0.016	mg/L			11/30/20 23:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*11/30/20 23:44*	*10*
Dibromofluoromethane	*104*		*81 - 121*		*11/30/20 23:44*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/30/20 23:44*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 04:19	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 04:19	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 04:19	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-23
Date Collected: 11/18/20 09:22
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**7.8**		0.050	0.019	mg/L			12/01/20 00:49	50
Ethylbenzene	**0.087**		0.050	0.025	mg/L			12/01/20 00:49	50
Toluene	0.021	U	0.050	0.021	mg/L			12/01/20 00:49	50
Xylenes, Total	**0.51**		0.50	0.080	mg/L			12/01/20 00:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*12/01/20 00:49*	*50*
Dibromofluoromethane	*104*		*81 - 121*		*12/01/20 00:49*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/01/20 00:49*	*50*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.10**		0.10	0.033	mg/L			11/20/20 05:27	1
Nitrate Nitrite as N	**0.10**		0.10	0.033	mg/L			11/20/20 05:27	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 05:27	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-33
Date Collected: 11/18/20 11:20
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 16:44	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 16:44	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 16:44	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*109*		*78 - 118*		*11/30/20 16:44*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*11/30/20 16:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/30/20 16:44*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**57**	**E**	0.10	0.033	mg/L			11/20/20 10:24	1
Nitrate Nitrite as N	**57**	**E**	0.10	0.033	mg/L			11/20/20 10:24	1
Nitrite as N	**0.077**	**J ***	0.10	0.026	mg/L			11/20/20 10:24	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**54**	**H**	1.0	0.33	mg/L			11/22/20 13:36	10
Nitrate Nitrite as N	**54**	**H**	1.0	0.33	mg/L			11/22/20 13:36	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-40

Date Collected: 11/18/20 07:10
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 18:59	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 18:59	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 18:59	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*11/30/20 18:59*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*11/30/20 18:59*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/30/20 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**42**	**E**	0.10	0.033	mg/L			11/19/20 21:51	1
Nitrate Nitrite as N	**43**	**E**	0.10	0.033	mg/L			11/19/20 21:51	1
Nitrite as N	**0.59**	*****	0.10	0.026	mg/L			11/19/20 21:51	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**40**	**H**	1.0	0.33	mg/L			11/22/20 17:01	10
Nitrate Nitrite as N	**40**	**H**	1.0	0.33	mg/L			11/22/20 17:01	10

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-41

Date Collected: 11/18/20 07:28
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 19:21	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 19:21	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 19:21	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*11/30/20 19:21*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*11/30/20 19:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/30/20 19:21*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**4.9**		0.10	0.033	mg/L			11/19/20 22:14	1
Nitrate Nitrite as N	**5.0**		0.10	0.033	mg/L			11/19/20 22:14	1
Nitrite as N	**0.11**	*	0.10	0.026	mg/L			11/19/20 22:14	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-42

Date Collected: 11/18/20 07:44
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 19:43	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 19:43	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 19:43	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*11/30/20 19:43*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*11/30/20 19:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/30/20 19:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/19/20 23:22	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/19/20 23:22	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/19/20 23:22	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-43

Date Collected: 11/18/20 11:10
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 20:05	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 20:05	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 20:05	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*11/30/20 20:05*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*11/30/20 20:05*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/30/20 20:05*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 10:02	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 10:02	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 10:02	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-44

Date Collected: 11/18/20 10:30
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-10

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.34**		0.0020	0.00076	mg/L			11/30/20 23:00	2
Ethylbenzene	**0.0058**		0.0020	0.0010	mg/L			11/30/20 23:00	2
Toluene	0.00082	U	0.0020	0.00082	mg/L			11/30/20 23:00	2
Xylenes, Total	0.0032	U	0.020	0.0032	mg/L			11/30/20 23:00	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*78 - 118*		*11/30/20 23:00*	*2*
Dibromofluoromethane	*102*		*81 - 121*		*11/30/20 23:00*	*2*
Toluene-d8 (Surr)	*93*		*80 - 120*		*11/30/20 23:00*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.089**	**J**	0.10	0.033	mg/L			11/20/20 08:53	1
Nitrate Nitrite as N	**0.089**	**J**	0.10	0.033	mg/L			11/20/20 08:53	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 08:53	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-45

Date Collected: 11/18/20 09:33
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-11

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.32**		0.0020	0.00076	mg/L			11/30/20 23:22	2
Ethylbenzene	**0.0021**		0.0020	0.0010	mg/L			11/30/20 23:22	2
Toluene	**0.0056**		0.0020	0.00082	mg/L			11/30/20 23:22	2
Xylenes, Total	**0.012**	**J**	0.020	0.0032	mg/L			11/30/20 23:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*11/30/20 23:22*	*2*
Dibromofluoromethane	*103*		*81 - 121*		*11/30/20 23:22*	*2*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/30/20 23:22*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 06:13	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 06:13	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 06:13	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-46
Date Collected: 11/18/20 08:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 20:27	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 20:27	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 20:27	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*11/30/20 20:27*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*11/30/20 20:27*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/30/20 20:27*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 00:08	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 00:08	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 00:08	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-48

Date Collected: 11/18/20 08:30
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.8**		0.010	0.0038	mg/L			12/01/20 00:06	10
Ethylbenzene	**0.019**		0.010	0.0050	mg/L			12/01/20 00:06	10
Toluene	0.0041	U	0.010	0.0041	mg/L			12/01/20 00:06	10
Xylenes, Total	0.016	U	0.10	0.016	mg/L			12/01/20 00:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*78 - 118*		*12/01/20 00:06*	*10*
Dibromofluoromethane	*103*		*81 - 121*		*12/01/20 00:06*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/01/20 00:06*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 01:16	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 01:16	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 01:16	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-49

Date Collected: 11/18/20 09:40
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-14

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 20:49	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 20:49	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 20:49	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*78 - 118*		*11/30/20 20:49*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*11/30/20 20:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/30/20 20:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 06:59	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 06:59	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 06:59	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-50

Date Collected: 11/18/20 10:04
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-15

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 21:11	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 21:11	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 21:11	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*78 - 118*		*11/30/20 21:11*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*11/30/20 21:11*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/30/20 21:11*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**4.2**		0.10	0.033	mg/L			11/20/20 08:30	1
Nitrate Nitrite as N	**4.2**		0.10	0.033	mg/L			11/20/20 08:30	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 08:30	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-51

Date Collected: 11/18/20 09:08
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.58**		0.0050	0.0019	mg/L			12/02/20 11:34	5
Ethylbenzene	**0.029**		0.0050	0.0025	mg/L			12/02/20 11:34	5
Toluene	**0.0048**	**J**	0.0050	0.0021	mg/L			12/02/20 11:34	5
Xylenes, Total	**0.032**	**J**	0.050	0.0080	mg/L			12/02/20 11:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*12/02/20 11:34*	*5*
Dibromofluoromethane	*109*		*81 - 121*		*12/02/20 11:34*	*5*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/02/20 11:34*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/19/20 20:20	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/19/20 20:20	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/19/20 20:20	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-52

Date Collected: 11/18/20 08:56
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.23**		0.0010	0.00038	mg/L			11/30/20 21:33	1
Ethylbenzene	**0.0072**		0.0010	0.00050	mg/L			11/30/20 21:33	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 21:33	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 21:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*11/30/20 21:33*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*11/30/20 21:33*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/30/20 21:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 03:56	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 03:56	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 03:56	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-53

Date Collected: 11/18/20 08:40
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-18

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 21:55	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 21:55	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 21:55	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*11/30/20 21:55*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*11/30/20 21:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/30/20 21:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 02:02	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 02:02	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 02:02	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-54

Date Collected: 11/18/20 08:09
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-19

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 22:16	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 22:16	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 22:16	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*78 - 118*		*11/30/20 22:16*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*11/30/20 22:16*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*11/30/20 22:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**13**	**E**	0.10	0.033	mg/L			11/20/20 00:31	1
Nitrate Nitrite as N	**13**	**E**	0.10	0.033	mg/L			11/20/20 00:31	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 00:31	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**13**	**H**	0.50	0.17	mg/L			11/22/20 17:47	5
Nitrate Nitrite as N	**13**	**H**	0.50	0.17	mg/L			11/22/20 17:47	5

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-55

Date Collected: 11/18/20 11:35
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0048**		0.0010	0.00038	mg/L			11/30/20 22:38	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 22:38	1
Toluene	**0.00097**	**J**	0.0010	0.00041	mg/L			11/30/20 22:38	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*11/30/20 22:38*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*11/30/20 22:38*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/30/20 22:38*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/20/20 10:47	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/20/20 10:47	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 10:47	1

Client Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-56

Date Collected: 11/18/20 10:45
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-21

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			12/02/20 08:37	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			12/02/20 08:37	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			12/02/20 08:37	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			12/02/20 08:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/02/20 08:37*	*1*
Dibromofluoromethane	*115*		*81 - 121*		*12/02/20 08:37*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/02/20 08:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.46**		0.10	0.033	mg/L			11/20/20 09:15	1
Nitrate Nitrite as N	**0.46**		0.10	0.033	mg/L			11/20/20 09:15	1
Nitrite as N	0.026	U *	0.10	0.026	mg/L			11/20/20 09:15	1

Definitions/Glossary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(78-118)	(81-121)	(80-120)
400-196072-1	TB-01	108	99	96
400-196072-2	DUP-01	101	102	92
400-196072-3	DUP-02	102	104	97
400-196072-4	MW-23	99	104	100
400-196072-5	MW-33	109	102	96
400-196072-5 MS	MW-33	99	106	94
400-196072-5 MSD	MW-33	95	105	94
400-196072-6	MW-40	104	103	97
400-196072-7	MW-41	102	105	97
400-196072-8	MW-42	101	104	97
400-196072-9	MW-43	100	103	103
400-196072-10	MW-44	107	102	93
400-196072-11	MW-45	103	103	99
400-196072-12	MW-46	101	105	96
400-196072-13	MW-48	101	103	96
400-196072-14	MW-49	106	102	96
400-196072-15	MW-50	106	103	95
400-196072-16	MW-51	95	109	96
400-196072-16 MS	MW-51	94	111	95
400-196072-16 MSD	MW-51	94	110	95
400-196072-17	MW-52	102	100	99
400-196072-18	MW-53	103	105	97
400-196072-19	MW-54	108	104	95
400-196072-20	MW-55	104	102	96
400-196072-21	MW-56	93	115	96
LCS 400-512585/1002	Lab Control Sample	94	103	99
LCS 400-512792/1002	Lab Control Sample	94	111	96
MB 400-512585/4	Method Blank	104	102	96
MB 400-512792/4	Method Blank	92	113	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

GC/MS VOA

Analysis Batch: 512585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-196072-1	TB-01	Total/NA	Water	8260B	
400-196072-2	DUP-01	Total/NA	Water	8260B	
400-196072-3	DUP-02	Total/NA	Water	8260B	
400-196072-4	MW-23	Total/NA	Water	8260B	
400-196072-5	MW-33	Total/NA	Water	8260B	
400-196072-6	MW-40	Total/NA	Water	8260B	
400-196072-7	MW-41	Total/NA	Water	8260B	
400-196072-8	MW-42	Total/NA	Water	8260B	
400-196072-9	MW-43	Total/NA	Water	8260B	
400-196072-10	MW-44	Total/NA	Water	8260B	
400-196072-11	MW-45	Total/NA	Water	8260B	
400-196072-12	MW-46	Total/NA	Water	8260B	
400-196072-13	MW-48	Total/NA	Water	8260B	
400-196072-14	MW-49	Total/NA	Water	8260B	
400-196072-15	MW-50	Total/NA	Water	8260B	
400-196072-17	MW-52	Total/NA	Water	8260B	
400-196072-18	MW-53	Total/NA	Water	8260B	
400-196072-19	MW-54	Total/NA	Water	8260B	
400-196072-20	MW-55	Total/NA	Water	8260B	
MB 400-512585/4	Method Blank	Total/NA	Water	8260B	
LCS 400-512585/1002	Lab Control Sample	Total/NA	Water	8260B	
400-196072-5 MS	MW-33	Total/NA	Water	8260B	
400-196072-5 MSD	MW-33	Total/NA	Water	8260B	

Analysis Batch: 512792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-196072-16	MW-51	Total/NA	Water	8260B	
400-196072-21	MW-56	Total/NA	Water	8260B	
MB 400-512792/4	Method Blank	Total/NA	Water	8260B	
LCS 400-512792/1002	Lab Control Sample	Total/NA	Water	8260B	
400-196072-16 MS	MW-51	Total/NA	Water	8260B	
400-196072-16 MSD	MW-51	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 511505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-196072-2	DUP-01	Total/NA	Water	300.0	
400-196072-3	DUP-02	Total/NA	Water	300.0	
400-196072-4	MW-23	Total/NA	Water	300.0	
400-196072-5	MW-33	Total/NA	Water	300.0	
400-196072-6	MW-40	Total/NA	Water	300.0	
400-196072-7	MW-41	Total/NA	Water	300.0	
400-196072-8	MW-42	Total/NA	Water	300.0	
400-196072-9	MW-43	Total/NA	Water	300.0	
400-196072-10	MW-44	Total/NA	Water	300.0	
400-196072-11	MW-45	Total/NA	Water	300.0	
400-196072-12	MW-46	Total/NA	Water	300.0	
400-196072-13	MW-48	Total/NA	Water	300.0	
400-196072-14	MW-49	Total/NA	Water	300.0	
400-196072-15	MW-50	Total/NA	Water	300.0	

QC Association Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

HPLC/IC (Continued)

Analysis Batch: 511505 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-196072-16	MW-51	Total/NA	Water	300.0	
400-196072-17	MW-52	Total/NA	Water	300.0	
400-196072-18	MW-53	Total/NA	Water	300.0	
400-196072-19	MW-54	Total/NA	Water	300.0	
400-196072-20	MW-55	Total/NA	Water	300.0	
400-196072-21	MW-56	Total/NA	Water	300.0	
MB 400-511505/4	Method Blank	Total/NA	Water	300.0	
LCS 400-511505/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-511505/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-511505/5	Lab Control Sample	Total/NA	Water	300.0	
400-196072-5 MS	MW-33	Total/NA	Water	300.0	
400-196072-5 MSD	MW-33	Total/NA	Water	300.0	
400-196072-16 MS	MW-51	Total/NA	Water	300.0	
400-196072-16 MSD	MW-51	Total/NA	Water	300.0	

Analysis Batch: 511772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
400-196072-5 - DL	MW-33	Total/NA	Water	300.0	
400-196072-6 - DL	MW-40	Total/NA	Water	300.0	
400-196072-19 - DL	MW-54	Total/NA	Water	300.0	
MB 400-511772/4	Method Blank	Total/NA	Water	300.0	
LCS 400-511772/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 400-511772/7	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 400-511772/5	Lab Control Sample	Total/NA	Water	300.0	
400-196072-5 MS - DL	MW-33	Total/NA	Water	300.0	
400-196072-5 MSD - DL	MW-33	Total/NA	Water	300.0	

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-512585/4
Matrix: Water
Analysis Batch: 512585

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			11/30/20 16:22	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			11/30/20 16:22	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			11/30/20 16:22	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			11/30/20 16:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*78 - 118*		*11/30/20 16:22*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*11/30/20 16:22*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/30/20 16:22*	*1*

Lab Sample ID: LCS 400-512585/1002
Matrix: Water
Analysis Batch: 512585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0519		mg/L		104	70 - 130
Ethylbenzene	0.0500	0.0470		mg/L		94	70 - 130
Toluene	0.0500	0.0473		mg/L		95	70 - 130
Xylenes, Total	0.100	0.0894		mg/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-196072-5 MS
Matrix: Water
Analysis Batch: 512585

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00038	U	0.0500	0.0512		mg/L		102	56 - 142
Ethylbenzene	0.00050	U	0.0500	0.0432		mg/L		86	58 - 131
Toluene	0.00041	U	0.0500	0.0434		mg/L		87	65 - 130
Xylenes, Total	0.0016	U	0.100	0.0838		mg/L		84	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*106*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: 400-196072-5 MSD
Matrix: Water
Analysis Batch: 512585

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00038	U	0.0500	0.0479		mg/L		96	56 - 142	7	30
Ethylbenzene	0.00050	U	0.0500	0.0400		mg/L		80	58 - 131	8	30
Toluene	0.00041	U	0.0500	0.0410		mg/L		82	65 - 130	6	30

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-196072-5 MSD
Matrix: Water
Analysis Batch: 512585

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	0.0016	U	0.100	0.0782		mg/L		78	59 - 130	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*78 - 118*
Dibromofluoromethane	*105*		*81 - 121*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 400-512792/4
Matrix: Water
Analysis Batch: 512792

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00038	U	0.0010	0.00038	mg/L			12/02/20 08:12	1
Ethylbenzene	0.00050	U	0.0010	0.00050	mg/L			12/02/20 08:12	1
Toluene	0.00041	U	0.0010	0.00041	mg/L			12/02/20 08:12	1
Xylenes, Total	0.0016	U	0.010	0.0016	mg/L			12/02/20 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*12/02/20 08:12*	*1*
Dibromofluoromethane	*113*		*81 - 121*		*12/02/20 08:12*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/02/20 08:12*	*1*

Lab Sample ID: LCS 400-512792/1002
Matrix: Water
Analysis Batch: 512792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0523		mg/L		105	70 - 130
Ethylbenzene	0.0500	0.0531		mg/L		106	70 - 130
Toluene	0.0500	0.0501		mg/L		100	70 - 130
Xylenes, Total	0.100	0.105		mg/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*78 - 118*
Dibromofluoromethane	*111*		*81 - 121*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-196072-16 MS
Matrix: Water
Analysis Batch: 512792

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.58		0.250	0.792		mg/L		86	56 - 142
Ethylbenzene	0.029		0.250	0.242		mg/L		85	58 - 131
Toluene	0.0048	J	0.250	0.210		mg/L		82	65 - 130
Xylenes, Total	0.032	J	0.500	0.437		mg/L		81	59 - 130

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-196072-16 MS
Matrix: Water
Analysis Batch: 512792

Client Sample ID: MW-51
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	111		81 - 121
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 400-196072-16 MSD
Matrix: Water
Analysis Batch: 512792

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.58		0.250	0.833		mg/L		102	56 - 142	5	30
Ethylbenzene	0.029		0.250	0.271		mg/L		97	58 - 131	11	30
Toluene	0.0048	J	0.250	0.229		mg/L		90	65 - 130	9	30
Xylenes, Total	0.032	J	0.500	0.485		mg/L		91	59 - 130	10	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene	94		78 - 118
Dibromofluoromethane	110		81 - 121
Toluene-d8 (Surr)	95		80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 400-511505/4
Matrix: Water
Analysis Batch: 511505

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/19/20 18:48	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/19/20 18:48	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/19/20 18:48	1

Lab Sample ID: LCS 400-511505/6
Matrix: Water
Analysis Batch: 511505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.16		mg/L		96	90 - 110
Nitrate Nitrite as N	5.30	4.85		mg/L		92	90 - 110
Nitrite as N	3.04	2.69	*	mg/L		88	90 - 110

Lab Sample ID: LCSD 400-511505/7
Matrix: Water
Analysis Batch: 511505

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.17		mg/L		96	90 - 110	0	15
Nitrate Nitrite as N	5.30	4.87		mg/L		92	90 - 110	0	15
Nitrite as N	3.04	2.70	*	mg/L		89	90 - 110	1	15

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 400-511505/5
Matrix: Water
Analysis Batch: 511505

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N			0.226	0.161		mg/L		71	50 - 150		
Nitrate Nitrite as N			0.530	0.280		mg/L		53	50 - 150		
Nitrite as N			0.304	0.119	^	mg/L		39	50 - 150		

Lab Sample ID: 400-196072-5 MS
Matrix: Water
Analysis Batch: 511505

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	57	E	2.26	59.5	E 4	mg/L		126	80 - 120		
Nitrate Nitrite as N	57	E	5.30	62.5	E 4	mg/L		103	80 - 120		
Nitrite as N	0.077	J *	3.04	3.02		mg/L		97	80 - 120		

Lab Sample ID: 400-196072-5 MSD
Matrix: Water
Analysis Batch: 511505

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	57	E	2.26	59.6	E 4	mg/L		129	80 - 120	0	20
Nitrate Nitrite as N	57	E	5.30	62.5	E 4	mg/L		103	80 - 120	0	20
Nitrite as N	0.077	J *	3.04	2.94		mg/L		94	80 - 120	NC	20

Lab Sample ID: 400-196072-16 MS
Matrix: Water
Analysis Batch: 511505

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate as N	0.033	U	2.26	1.96		mg/L		87	80 - 120		
Nitrate Nitrite as N	0.033	U	5.30	4.87		mg/L		92	80 - 120		
Nitrite as N	0.026	U *	3.04	2.91		mg/L		96	80 - 120		

Lab Sample ID: 400-196072-16 MSD
Matrix: Water
Analysis Batch: 511505

Client Sample ID: MW-51
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.033	U	2.26	2.13		mg/L		94	80 - 120	8	20
Nitrate Nitrite as N	0.033	U	5.30	5.34		mg/L		101	80 - 120	9	20
Nitrite as N	0.026	U *	3.04	3.21		mg/L		105	80 - 120	10	20

Lab Sample ID: MB 400-511772/4
Matrix: Water
Analysis Batch: 511772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.033	U	0.10	0.033	mg/L			11/22/20 12:05	1
Nitrate Nitrite as N	0.033	U	0.10	0.033	mg/L			11/22/20 12:05	1
Nitrite as N	0.026	U	0.10	0.026	mg/L			11/22/20 12:05	1

QC Sample Results

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 400-511772/6
Matrix: Water
Analysis Batch: 511772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.26	2.16		mg/L		95	90 - 110
Nitrate Nitrite as N	5.30	5.71		mg/L		108	90 - 110
Nitrite as N	3.04	3.55	*	mg/L		117	90 - 110

Lab Sample ID: LCSD 400-511772/7
Matrix: Water
Analysis Batch: 511772

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.26	2.16		mg/L		96	90 - 110	0	15
Nitrate Nitrite as N	5.30	5.68		mg/L		107	90 - 110	1	15
Nitrite as N	3.04	3.52	*	mg/L		116	90 - 110	1	15

Lab Sample ID: MRL 400-511772/5
Matrix: Water
Analysis Batch: 511772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.226	0.190		mg/L		84	50 - 150
Nitrate Nitrite as N	0.530	0.365		mg/L		69	50 - 150
Nitrite as N	0.304	0.175		mg/L		58	50 - 150

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 400-196072-5 MS
Matrix: Water
Analysis Batch: 511772

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N - DL	54	H	22.6	76.9	H	mg/L		100	80 - 120
Nitrate Nitrite as N - DL	54	H	53.0	108	H	mg/L		101	80 - 120

Lab Sample ID: 400-196072-5 MSD
Matrix: Water
Analysis Batch: 511772

Client Sample ID: MW-33
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N - DL	54	H	22.6	77.5	H	mg/L		103	80 - 120	1	20
Nitrate Nitrite as N - DL	54	H	53.0	111	H	mg/L		108	80 - 120	3	20

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: TB-01
Date Collected: 11/18/20 07:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 18:15	AMB	TAL PEN

Client Sample ID: DUP-01
Date Collected: 11/18/20 11:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 18:37	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 09:39	TAJ	TAL PEN

Client Sample ID: DUP-02
Date Collected: 11/18/20 09:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	512585	11/30/20 23:44	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 04:19	TAJ	TAL PEN

Client Sample ID: MW-23
Date Collected: 11/18/20 09:22
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	5 mL	5 mL	512585	12/01/20 00:49	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 05:27	TAJ	TAL PEN

Client Sample ID: MW-33
Date Collected: 11/18/20 11:20
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 16:44	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 10:24	TAJ	TAL PEN
Total/NA	Analysis	300.0	DL	10			511772	11/22/20 13:36	TAJ	TAL PEN

Client Sample ID: MW-40
Date Collected: 11/18/20 07:10
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 18:59	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/19/20 21:51	TAJ	TAL PEN
Total/NA	Analysis	300.0	DL	10			511772	11/22/20 17:01	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-41
Date Collected: 11/18/20 07:28
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 19:21	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/19/20 22:14	TAJ	TAL PEN

Client Sample ID: MW-42
Date Collected: 11/18/20 07:44
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 19:43	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/19/20 23:22	TAJ	TAL PEN

Client Sample ID: MW-43
Date Collected: 11/18/20 11:10
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 20:05	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 10:02	TAJ	TAL PEN

Client Sample ID: MW-44
Date Collected: 11/18/20 10:30
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	512585	11/30/20 23:00	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 08:53	TAJ	TAL PEN

Client Sample ID: MW-45
Date Collected: 11/18/20 09:33
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	512585	11/30/20 23:22	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 06:13	TAJ	TAL PEN

Client Sample ID: MW-46
Date Collected: 11/18/20 08:00
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 20:27	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 00:08	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-48
Date Collected: 11/18/20 08:30
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	512585	12/01/20 00:06	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 01:16	TAJ	TAL PEN

Client Sample ID: MW-49
Date Collected: 11/18/20 09:40
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 20:49	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 06:59	TAJ	TAL PEN

Client Sample ID: MW-50
Date Collected: 11/18/20 10:04
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 21:11	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 08:30	TAJ	TAL PEN

Client Sample ID: MW-51
Date Collected: 11/18/20 09:08
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	512792	12/02/20 11:34	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/19/20 20:20	TAJ	TAL PEN

Client Sample ID: MW-52
Date Collected: 11/18/20 08:56
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 21:33	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 03:56	TAJ	TAL PEN

Client Sample ID: MW-53
Date Collected: 11/18/20 08:40
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 21:55	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 02:02	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: MW-54
Date Collected: 11/18/20 08:09
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 22:16	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 00:31	TAJ	TAL PEN
Total/NA	Analysis	300.0	DL	5			511772	11/22/20 17:47	TAJ	TAL PEN

Client Sample ID: MW-55
Date Collected: 11/18/20 11:35
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 22:38	AMB	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 10:47	TAJ	TAL PEN

Client Sample ID: MW-56
Date Collected: 11/18/20 10:45
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512792	12/02/20 08:37	WPD	TAL PEN
Total/NA	Analysis	300.0		1			511505	11/20/20 09:15	TAJ	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-511505/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511505	11/19/20 18:48	TAJ	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-511772/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511772	11/22/20 12:05	TAJ	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-512585/4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 16:22	AMB	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: Method Blank
Lab Sample ID: MB 400-512792/4
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512792	12/02/20 08:12	WPD	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-511505/6
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511505	11/19/20 19:34	TAJ	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-511772/6
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511772	11/22/20 12:50	TAJ	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-512585/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 15:28	AMB	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-512792/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512792	12/02/20 07:15	WPD	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-511505/7
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511505	11/19/20 19:57	TAJ	TAL PEN

Client Sample ID: Lab Control Sample Dup
Lab Sample ID: LCSD 400-511772/7
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511772	11/22/20 13:13	TAJ	TAL PEN

Lab Chronicle

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MRL 400-511505/5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	511505	11/19/20 19:11	TAJ	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MRL 400-511772/5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			511772	11/22/20 12:28	TAJ	TAL PEN

Client Sample ID: MW-33
Date Collected: 11/18/20 11:20
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-5 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 17:06	AMB	TAL PEN
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	511505	11/20/20 11:10	TAJ	TAL PEN
Total/NA	Analysis	300.0	DL	10			511772	11/22/20 13:59	TAJ	TAL PEN

Client Sample ID: MW-33
Date Collected: 11/18/20 11:20
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-5 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	512585	11/30/20 17:28	AMB	TAL PEN
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	511505	11/20/20 11:33	TAJ	TAL PEN
Total/NA	Analysis	300.0	DL	10			511772	11/22/20 14:22	TAJ	TAL PEN

Client Sample ID: MW-51
Date Collected: 11/18/20 09:08
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-16 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	512792	12/02/20 12:01	WPD	TAL PEN
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	511505	11/19/20 20:42	TAJ	TAL PEN

Client Sample ID: MW-51
Date Collected: 11/18/20 09:08
Date Received: 11/19/20 09:30

Lab Sample ID: 400-196072-16 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	512792	12/02/20 12:26	WPD	TAL PEN
Total/NA	Analysis	300.0		1	10 mL	1.0 mL	511505	11/19/20 21:05	TAJ	TAL PEN

Laboratory References:
TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola

Method Summary

Client: Stantec Consulting Services Inc
Project/Site: Blanco Gas Plant North

Job ID: 400-196072-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
300.0	Anions, Ion Chromatography	MCAWW	TAL PEN
5030B	Purge and Trap	SW846	TAL PEN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: Stantec Consulting Services Inc
Job ID: 400-196072-1
Project/Site: Blanco Gas Plant North

Laboratory: Eurofins TestAmerica, Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-21
ANAB	ISO/IEC 17025	L2471	02-23-23
Arizona	State	AZ0710	01-13-21
Arkansas DEQ	State	88-0689	09-02-21
California	State	2510	06-30-21
Florida	NELAP	E81010	06-30-21
Georgia	State	E81010(FL)	06-30-21
Illinois	NELAP	200041	10-09-21
Iowa	State	367	08-01-22
Kansas	NELAP	E-10253	10-31-21
Kentucky (UST)	State	53	06-30-21
Kentucky (WW)	State	KY98030	12-31-20
Louisiana	NELAP	30976	06-30-21
Louisiana (DW)	State	LA017	12-31-20
Maryland	State	233	09-30-21
Massachusetts	State	M-FL094	06-30-21
Michigan	State	9912	06-30-21
Minnesota	NELAP	012-999-481	12-31-20
New Jersey	NELAP	FL006	06-30-21
New York	NELAP	12115	04-01-21
North Carolina (WW/SW)	State	314	12-31-20
Oklahoma	State	9810-186	08-31-21
Pennsylvania	NELAP	68-00467	01-31-21
Rhode Island	State	LAO00307	12-30-20
South Carolina	State	96026002	06-30-21
Tennessee	State	TN02907	06-30-21
Texas	NELAP	T104704286	09-30-21
US Fish & Wildlife	US Federal Programs	058448	07-31-21
USDA	US Federal Programs	P330-18-00148	05-17-21
Virginia	NELAP	460166	06-14-21
Washington	State	C915	05-15-21
West Virginia DEP	State	136	12-31-20

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins Environment Testing America

Client Information	Sampler: SRe	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-97399-35241.1
Client Contact: Steve Varsa	Phone: 913 980 0281	E-Mail: Marty.Edwards@Eurofinset.com		Page: Page 1 of 2 SRe
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STD			
State, Zip: IA, 50322-7904				
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan Blanco North	Project #: 40012762			
Site: BLANCO NORTH	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

400-196072 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_S - Nitrate & Nitrite	8260B - BTEX 8260	8260 B-BTEX no HCL	Total Number of containers	Special Instructions/Note:
W-ERA-STN-10-29-2020-SAH-01 BLANCO NORTH											
			Preservation Code:				N	A			
TB-01	11/18/2020	0700	G	Water				2		2	Trip Blank
DUP-01	11/18/2020	1100	G	Water			1	3		4	Duplicate
DUP-02	11/18/2020	0900	G	Water			1	3		4	Duplicate
MW-23	11/18/2020	0922	G	Water			1	3		4	
MW-33	11/18/2020	1120	G	Water		Y	2	6		8	
MW-40	11/18/2020	0710	G	Water			1	3		4	
MW-41	11/18/2020	0728	G	Water			1	3		4	
MW-42	11/18/2020	0744	G	Water			1	3		4	
MW-43	11/18/2020	1110	G	Water			1	3		3	
MW-44	11/18/2020	1030	G	Water			1	3		4	
MW-45	11/18/2020	0933	G	Water			1	3		4	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Sean N Clamp	11/18/2020 1530	STN			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				11-19-20 9:30	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.4c, 0.7c, 3.0c, IR9

Ver: 01/16/2019

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins Environment Testing America

Client Information	Sampler: Front	Lab PM: Edwards, Marty P	Carrier Tracking No(s):	COC No: 400-97399-35241.1
Client Contact: Steve Varsa	Phone:	E-Mail: Marty.Edwards@Eurofinset.com		Page: Page 2 of 2 SDC
Company: Stantec Consulting Services Inc				Job #:
Address: 11153 Aurora Avenue	Due Date Requested:			
City: Des Moines	TAT Requested (days): STP			
State, Zip: IA, 50322-7904				
Phone:	PO #: See Project Notes			
Email: steve.varsa@stantec.com	WO #:			
Project Name: CMI Kinder Morgan Blanco North	Project #: 40012762			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Front

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_S - Nitrate & Nitrite	8260B - BTEX 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-46	11/18/2020	0800	G	Water	—	—	1	3	4	
MW-48	11/18/2020	0830	G	Water	—	—	1	3	4	
MW-49	11/18/2020	0940	G	Water	—	—	1	3	4	Volume issue
MW-50	11/18/2020	1004	G	Water	—	—	1	2	3	Volume issue
MW-51	11/18/2020	0908	G	Water	—	Y	2	6	8	
MW-52	11/18/2020	0856	G	Water	—	—	1	3	4	
MW-53	11/18/2020	0840	G	Water	—	—	1	3	4	
MW-54	11/18/2020	0809	G	Water	—	—	1	3	4	
MW-55	11/18/2020	1135	G	Water	—	—	1	3	4	
MW-56	11/18/2020	1045	G	Water	—	—	1	2	3	Volume issue
				Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Sam R Clay	11/18/2020 1550	STN			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11-19-20 9:30	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.4c, 0.7c, 3.0c IR9

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Stantec Consulting Services Inc Job Number: 400-196072-1

Login Number: 196072 **List Source: Eurofins TestAmerica, Pensacola**
List Number: 1
Creator: Gore, Beija K

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1524044,1524046,1524045
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4 °C, 0.7 °C, 3.0 °C IR 9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 23341

CONDITIONS

Operator:	OGRID:
El Paso Natural Gas Company, L.L.C 1001 Louisiana Street Houston, TX 77002	7046
	Action Number: 23341
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. See app ID 94607 for most updated status.	10/26/2022